Subject Index of Current Research Grants and Contracts Administered by

The National Heart, Lung, & Blood Institute

December 1978

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
Public Health Service National Institutes of Health

This information has been assembled for use by NHLBI staff and the National Heart, Lung, and Blood Advisory Council. Questions regarding any of this information should be directed to the Information Systems Branch—OPPE-NHLBI.

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INTRODUCTION

This publication contains information on research grants and contracts supported by the National Heart, Lung, and Blood Institute. It is published in the interest of providing timely information about the research supported by the National Heart, Lung, and Blood Institute (grants and contracts active December 1978) and with an awareness that information for a few projects active at this time was not available.

This index is prepared in cooperation with the Research Documentation Section, Statistics and Analysis Branch, Division of Research Grants, National Institutes of Health. It is based on the indexing of the System for the Computerized Retrieval of Information on Scientific Projects (CRISP).

Project Identifiers

Projects (grants and contracts) are identified in this index through a series of codes (see Definitions of Prefixes). Other codes designate the initial review groups (see Initial Review Groups). They appear in the various sections, as illustrated by the diagram below.

	Prefix (Kind of Project)	Institute Designator	Project Serial No.	Suffix	Large Grant Subproject #	Initial Review Group
Grant	P01	HL	12345	-08	007	(HLBA)
Contract	N01	HV	12345	-02		(HCRG)

For a grant, the suffix is the approximate length of time a project has been supported; for a contract, the number of modifications.

The following mnemonics are used as Institute designations:

Grants: **HL** — National Heart, Lung, and Blood Institute

Contracts:
HB — Division of Blood Diseases and Resources
HI — Division of Intramural Research
HO — Office of the Director
HR — Division of Lung Diseases
HV — Division of Heart and Vascular Diseases

Alphabetical Listing of Subjects

Subject headings are listed alphabetically. Under each subject heading relevant projects are listed numerically with their titles.

In the case of large grants, the grant number is repeated under each subject heading for each relevant subproject, together with the appropriate subproject number.

Project Identification and Investigator Address

Projects are arranged alphabetically according to the Institute designator (**HB, HI, HL, HO, HR, HV**). For each of these codes, projects are listed in numerical order.

Several project directors within a parent grant may be listed. The institution address appears only with the first entry.

Alphabetical Listing of Investigators

The names of the principal investigators of active grants or contracts are listed alphabetically. In the case of large grants where there are several subprojects, the name of one investigator may be repeated several times. Numbers of subprojects which have been disapproved in the review process, or which have been completed, do not appear in this index.

General

By using the last two sections of this index in conjunction with each other, it is possible to determine who is doing what kind of research and where.

DEFINITIONS OF PREFIXES USED IN PROJECT NUMBERS

N01-Research and Project Contracts: To develop and/or apply new knowledge or to test, screen, or evaluate a product, material, device or component for use by the scientific community.

P01-Research Program Project Grants: For support of a multicategorical approach and usually long-term program of research activity. These grants are usually directed toward a limited range of problems within a specific category, having a central research focus.

P50-Specialized Centers of Research: To support any part of the full range of basic to clinical research and development related to cardiovascular, pulmonary and blood diseases. These grants differ from program project grants in that they are usually developed in response to a program announcement and subsequently receive continuous staff attention.

P60-Comprehensive Centers: To support a multipurpose unit with the following objectives: fostering biomedical research and development both at the fundamental and clinical levels; community education, screening, and counseling programs; education of medical and allied health professionals; demonstration program on diagnosis, prevention and treatment of cardiovascular, pulmonary and blood diseases.

R01-Traditional Research Grants: To support a circumscribed project to be carried out under the direction of a named principal investigator in an area representing his or her specific interest and competencies.

R10-Cooperative Clinical Research: To support clinical evaluation of various methods of therapy in specific disease areas. These are usually collaborative programs between sponsoring institutions and principal investigators, and usually conducted under a formal protocol.

R13-Conference Grant: To support international or national meetings, conferences and workshops.

R18-Research Demonstration and Dissemination Projects: To provide support designed to develop, test, and evaluate health service activities, and to foster the application of existing knowledge for the control of categorical diseases.

R23-Young Investigator Award: A program of the National Heart, Lung, and Blood Institute to support basic and clinical studies for trained investigators to initiate new programs in the cardiovascular, pulmonary and blood diseases areas.

R25-High Blood Pressure Education Research Program: A program with the following objectives: to foster research that would identify the characteristics of a hypertensive individual that are related to, or are suspected of relating to, adherence behavior; to develop educational interventions aimed at altering the behavioral characteristics of hypertensives to bring about immediate and long-term adherence to therapy.

INITIAL REVIEW GROUPS

Study sections and committees responsible for the initial technical review of research grant applications are listed with their abbreviations. Contracts are reviewed by ad hoc peer review groups.

AFY — Applied Physiology and Orthopedics Study Section
ALC — Alcohol Research Review Committee
ALY — Allergy and Immunology Study Section
AR — Animal Resources Advisory Committee
BBCA — Biophysics and Biophysical Chemistry A Study Section
BBCB — Biophysics and Biophysical Chemistry B Study Section
BCM — Biomedical Communications Study Section
BIO — Biochemistry Study Section
BM — Bacteriology and Mycology Study Section
BMT — Bioanalytical and Metallobiochemistry Study Section
BPS — Biopsychology Study Section
CBY — Cell Biology Study Section
CLR — General Clinical Research Centers Committee
CMS — Communicative Sciences Study Section
CTY — Molecular Cytology Study Section
CVA — Cardiovascular and Pulmonary Study Section
CVB — Cardiovascular and Renal Study Section
EDC — Epidemiology and Disease Control Study Section
END — Endocrinology Study Section
ET — Experimental Therapeutics Study Section
EVR — Experimental Virology Study Section
GEN — Genetics Study Section
GMA — General Medicine A Study Section
GMB — General Medicine B Study Section
HBP — National High Blood Pressure Education Research Program Committee
HCRG — Heart, Lung, and Blood Peer Review Groups for Contracts
HCT — Health Care Technology Study Section
HED — Human Embryology and Development Study Section
HEM — Hematology Study Section
HLBA — Heart, Lung, and Blood Research Review Committee A
HLBB — Heart, Lung, and Blood Research Review Committee B
HSDG — Health Services Developmental Grants Study Section
HUD — Human Development Study Section
IMB — Immunobiology Study Section
IMS — Immunological Sciences Study Section
MCB — Microbial Chemistry Study Section
MBY — Molecular Biology Study Section
MCHA — Medicinal Chemistry A Study Section
MET — Metabolism Study Section
NEUA — Neurology A Study Section
NEUB — Neurology B Study Section

NSS	— No Initial Review Group
NTN	— Nutrition Study Section
PCB	— Pathobiological Chemistry Study Section
PC	— Physiological Chemistry Study Section
PHRA	— Pharmacology Study Section
PHY	— Physiology Study Section
PTHA	— Pathology A Study Section
PTHB	— Pathology B Study Section
PTR	— Pharmacology-Toxicology Review Committee
RAD	— Radiation Study Section
REB	— Reproductive Biology Study Section
SAT	— Surgery, Anesthesiology and Trauma Study Section
SB	— Surgery and Bioengineering Study Section
SRC	— Special Review Committee
SSS	— Special Study Section
TMP	— Tropical Medicine and Parasitology Study Section
TOX	— Toxicology Study Section
VISA	— Visual Sciences A Study Section
VISB	— Visual Sciences B Study Section
VR	— Virology Study Section

ABDOMEN
SEE BODY REGIONS, ABDOMEN

ABDOMINAL ARTERIES
SEE CARDIOVASCULAR SYSTEM, ARTERIES, ABDOMINAL ARTERIES

ABETALIPOPROTEINEMIA
SEE METABOLIC DISORDERS INBORN, HYPOLIPOPROTEINEMIAS FAMILIAL, ABETALIPOPROTEINEMIA

ABO HEMOLYTIC DISEASE NEWBORN
SEE BLOOD GROUP INCOMPATIBILITY PERINATAL, ABO HEMOLYTIC DISEASE NEWBORN

ABO(H) SYSTEM
SEE BLOOD GROUPS, ABO (H) SYSTEM

ABSCESS
SEE DISEASES, PATHOLOGIC PROCESSES, INFLAMMATION, ABSCESS

ABSORPTION
SEE BIOLOGICAL TRANSPORT, MEMBRANE PERMEABILITY AND TRANSPORT

ABSORPTION OF DIETARY NUTRIENTS
SEE GASTROINTESTINAL FUNCTION, ABSORPTION-TRANSPORT, DIETARY NUTRIENTS

AC-GLOBULIN
SEE BLOOD COAGULATION, FACTOR V

ACADEMIC ACHIEVEMENT
SEE PSYCHOLOGY, PERFORMANCE, ACADEMIC ACHIEVEMENT

ACANTHROCYTOSIS (ABETALIPOPROTEINEMIA)
SEE METABOLIC DISORDERS INBORN, HYPOLIPOPROTEINEMIAS FAMILIAL, ABETALIPOPROTEINEMIA

ACAPNIA
SEE RESPIRATORY GAS LEVELS, HYPOCAPNIA

ACATALASEMIA
SEE METABOLIC DISORDERS INBORN, ACATALASEMIA

ACATALASIA
SEE METABOLIC DISORDERS INBORN, ACATALASEMIA

ACCELERATION
SEE ENVIRONMENT, GRAVITY-MOTION

ACCELERATOR GLOBULIN
SEE BLOOD COAGULATION, FACTOR V

ACCELERATORS (PARTICLE)
SEE RADIATION, PARTICLE ACCELERATORS

ACCELERIN
SEE BLOOD COAGULATION, FACTOR V

ACCIDENTAL SUFFOCATION
SEE INJURIES, ACCIDENTS, SUFFOCATION

ACCLIMATIZATION
SEE ENVIRONMENT, ADAPTATION, ACCLIMATIZATION

ACETALDEHYDE
SEE ALDEHYDES, ACETALDEHYDE

ACETAMIDES
SEE AMIDES, ACETAMIDES

2-ACETAMIDO-ETHYL(P-CHLOROPHENYL)(N-TRIFLUOROMETHYL PHENYL PHENOXY) ACETATE
SEE PHENOXYACETIC ACIDS, HALOFENATE

ACETATE:COA LIGASE (AMP)
SEE ACID-THIOL LIGASES, ACETATE:COA LIGASE (AMP)

ACETATES
SEE FATTY ACIDS, ACETATES

ACETAZOLAMIDE
SEE SULFONAMIDES, ACETAZOLAMIDE

ACETOACETATES
SEE FATTY ACIDS, ACETOACETATES

ACETOPHENETIDIN
SEE PHENYLAMIDES, ACETOPHENETIDIN

ACETYLATION
SEE ACYLS, ACYLATION, ACETYLATION

ACETYLCHOLINE
SEE CHOLINE, ACETYLCHOLINE

ACETYLCHOLINESTERASE
SEE CHOLINE ESTERASES, ACETYLCHOLINESTERASE

ACETYL COA
SEE COENZYMES, COENZYME A, ACETYL-COA

ACETYL-COA CARBOXYLASE
SEE CARBON-CARBON LIGASES, ACETYL-COA CARBOXYLASE

ACETYL-COA:CO2 LIGASE (ADP)
SEE CARBON-CARBON LIGASES, ACETYL-COA CARBOXYLASE

ACETYL-COA SYNTHETASE (AMP)
SEE ACID THIOL LIGASES, ACETATE COA LIGASE (AMP)

ACETYL COA TRANSACETYLASE
SEE TRANSACYLASES, ACETYL COA TRANSACETYLASE

ACETYL-COENZYME A
SEE COENZYMES, COENZYME A, ACETYL COA

ACETYLENE COMPOUNDS
SEE ALKYNES

N-ACETYLGALACTOSAMINE
SEE HEXOSES, GALACTOSAMINES, N-ACETYLGALACTOSAMINE

N-ACETYLGLUCOSAMINIDASES
SEE CARBOHYDRASES, N-ACETYLGLUCOSAMINIDASES

BETA-N-ACETYLHEXOSAMINIDASE
SEE CARBOHYDRASES, HEXOSAMINIDASES

N-ACETYLMURAMIDE GLUCANOHYDROLASE
SEE CARBOHYDRASES, LYSOZYME

N-ACETYLNEURAMINIDASE
SEE CARBOHYDRASES, NEURAMINIDASE

ACETYLSALICYLATES
SEE PHENYLCARBOXYLATES, SALICYLATES, ACETYL-

ACETYLTHIOKINASE (AMP)
SEE ACID-THIOL LIGASES, ACETATE:COA LIGASE (AMP)

ACHIEVEMENT
SEE PSYCHOLOGY, PERFORMANCE, ACADEMIC ACHIEVEMENT

ACID-AMMONIA LIGASES, L-GLUTAMATE:AMMONIA LIGASE (ADP)
R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)

ACID-BASE BALANCE
SEE BODY FLUID BALANCE, ACID-BASE

ACID-FAST BACTERIA
SEE BACTERIA, ACID-FAST BACTERIA*

ACID PHOSPHATASE
SEE PHOSPHOMONOESTERASES, ACID PHOSPHATASE

ACID-THIOL LIGASES, ACETATE:COA LIGASE (AMP)
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)

ACIDITY OF URINE
SEE URINE ACIDITY

ACIDOSIS
SEE BODY FLUID BALANCE, ACID-BASE, ACIDOSIS

ACIDOSIS, DIABETIC
SEE CARBOHYDRATES METABOLISM DISORDERS, DIABETIC ACIDOSIS

ACIDOSIS, RESPIRATORY
SEE RESPIRATORY DISORDERS, ACIDOSIS, RESPIRATORY

ACIDOSIS INHIBITORS
SEE BODY FLUID BALANCE, ACID-BASE, ANTIACIDOSIS DRUGS

ACIDOSIS RENAL TUBULAR
SEE METABOLIC DISORDERS (INBORN), RENAL TUBULAR ACIDOSIS

ACIDS
SEE ACIDS-BASES, ACIDS (GENERAL)

ACIDS-BASES, ACIDS (GENERAL)
SEE ALSO AMINES, HYDROXYLAMINES, HYDROXAMIC ACIDS
SEE ALSO NITRATES
SEE ALSO NUCLEIC ACIDS
SEE ALSO PHOSPHATES
SEE ALSO PHOSPHONATES
SEE ALSO SULFATES
SEE ALSO SULFONATES
R01HL-18028-03 Absorption of nonvolatile compounds from the lung

ACIDS-BASES, ACIDS ORGANIC (GENERAL)
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
R23HL-22882-01 Modulation by disease of effect of furosemide in man

ACIDS-BASES, ALKALIES
R01HL-20725-02 Mechanisms and cellular functions of ion transport

ACIDS-BASES, BASES (GENERAL)
SEE ALSO ACIDS-BASES, ALKALIES
SEE ALSO ALCOHOLS
SEE ALSO AMINES
SEE ALSO STEROLS
R01HL-18028-03 Absorption of nonvolatile compounds from the lung

ACIDS-BASES, BUFFERS
P01HL 11351 12 0015 Cellular and molecular mechanisms of myocardial function Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
R01HL 12879 09 0002 Pulmonary transport and metabolism in vivo Osmotic compartmental model of barrier exchange
** P50HL 14218 07 0018 Pulmonary SCOR-Newborn lung center Whole body buffering in acute hypercapnia (dogs)
R01HL 22470 01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)

ACIDS-BASES, HYDROGEN-ION CONCENTRATION
SEE ALSO BODY FLUID BALANCE, ACID-BASE
SEE ALSO RESPIRATORY GAS LEVELS, BOHR EFFECT
N01HB-62962-02 Red cell distributions in cyanate-treated blood (human, sheep)
R01HL-00082-30 Transmembrane movements (barnacles, frogs, rats)
R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)
P01HL-07896-15 0030 Environmental biomedical research program Narcosis caused by inert gases at raised pressures (human, animals)
P01HL-07896-15 0043 Environmental biomedical research program - Effect of hyperbaric oxygen on the lung (human, rabbits)
P01HL-08899-14 0054 Tolerance to respiratory gases in health and disease - Glucose transport across choroid plexus (dogs)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
R01HL-13841-16 Respiration during altitude acclimatization (goats, dogs, rats, rabbits)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
P01HL-14388-07 0218 Regulation of the circulation in pathological states - Regional myocardial dyskinesis--Cause assessment and reduction (dogs)
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
R01HL-14967-06 Chemoreceptor function in dynamic ventilatory control (human, dogs)
P60HL-15157-07 0012 Comprehensive center for sickle cell disease - Sickling and intracellular pH (human)
P60HL-15162-07 0019 Comprehensive sickle cell center - RBC-Blood rheology in sickle cell anemia and related disorders (human, animal)
P01HL-15194-07 0006 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Velocity of Bohr effect inerythrocytes(human)
P01HL-15194-070009 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Diffusion and erythrocytes reaction rates (human, dogs)
P01HL-15194-07 0022 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Pulmonary carbon dioxide exchange (dogs)
R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
R01HL-16490-04 Structural basis of nephron filtration (rats, rabbits)
P01HL-16878-05 0004 Control of ventilation in health and disease - Neurotransmitters in the respiratory system (cats)
P50HL-17670-04 0022 Study of ischemic heart disease - Myocardial metabolism in hypoxia and recover (rabbit, toad, dog)
** P01HL-17731-04 0010 Physiological basis of pulmonary disease - Gas exchange kinetics (dogs)
R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)
R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
P01HL-19737-02 0005 Cellular and molecular aspects of respiratory physiology - Interaction of respiratory exchanges and blood gas parameters (human, animals)
** R01HL-20196-02 Regulation of coronary arterial smooth muscle
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
P01HL-20994-02 0009 Dynamics of neutrophil elastase in the lung - Biosynthesis and degradation of elastin in emphysema (human, hamsters)
P01HL-21016-02 0004 Sickle cell anemia and other hemoglobinopathies - Kinetics of sickling
P01HL-21016-02 0005 Sickle cell anemia and other hemoglobinopathies - Ligand kinetics in normal and Hb S containing erythrocytes (human)
P01HL-21016-02 0006 Sickle cell anemia and other hemoglobinopathies - Analysis of the oxygen dissociation curve of Hb S-containing red cells
P01HL-21016-02 0007 Sickle cell anemia and other hemoglobinopathies - Cellular determinants of red cell sickling

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
R23HL-21434-02 Intrinsic control of coronary blood flow by chemicals (guinea pigs)
R23HL-21901-01 Hypertension, microvascular control and exercise (rats)
R01HL-22008-01 Left ventrivular calcium content and contractility (rats)
R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)
R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
R01HL-22259-01 Modification of susceptibility to oxygen poisoning (rats)
R01HL-22315-01 Intraoperative cardiac oxygen supply-demand (dogs, rabbits, rats)
R01HL-22500-01 Conversion of choline to phosphatidylcholine in lung (rabbits, pigs)
** R01HL-22568-01 pH effect in heart cells–Influence of cardiac drugs (tissue culture, rats)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
P01HL-22619-01 0005 Cellular mechanisms of heart failure - Molecular mechanism of regulation of cardiac muscle contraction (cattle)
R01HL-23900-01 Mechanical measurement of cell membrane viscosity (human)

ACIDS-BASES, ISOELECTRIC POINT
N01HR-72923-01 Cystic fibrosis factor identification and quantification (human)

ACONINE TYPE ALKALOIDS
SEE ALKALOIDS, ACONINE TYPE

ACONITUM ACONINE TYPE ALKALOIDS
SEE ALKALOIDS, ACONINE TYPE

ACOUSTIC HOLOGRAPHY
SEE OPTICS, PHOTOGRAPHY, HOLOGRAPHY, ACOUSTIC*

ACOUSTIC MICROSCOPY
SEE OPTICS, MICROSCOPY, ULTRASONIC*

ACRIDINES
R01HL-17702-04 Electro-optical dyes as probes of heart excitability

ACRIDINES, AMINOACRIDINES
R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)

ACRIDINES, QUINACRINE
R01HL-17702-04 Electro-optical dyes as probes of heart excitability

ACROMEGALY
SEE PITUITARY GLAND DISORDERS, ACROMEGALY

ACRYLIC POLYMERS (RESINS)
SEE PLASTICS, ACRYLIC POLYMERS

ACTASCAN
SEE RADIOGRAPHY, SCANNING, CAT*

ACTH
SEE PITUITARY-DIENCEPHALON HORMONES, ACTH

ACTH INHIBITORS
SEE PITUITARY-DIENCEPHALON HORMONES, ACTH INHIBITORS

ACTIN
SEE MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), ACTIN

ALPHA-ACTININ
SEE MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), ALPHA-ACTININ

ACTINOMYCIN
SEE ANTIBIOTICS, ACTINOMYCIN
SEE ANTIBIOTICS, ACTINOMYCIN D

ACTINOZOA
SEE COELENTERATES, ANTHOZOA*

ACTION POTENTIALS
SEE ELECTROPOTENTIALS, ACTION POTENTIALS

ACTIVATION OF LYMPHOCYTES
SEE IMMUNITY, CELLULAR, LYMPHOCYTE ACTIVATION, TRANSFORMATION AND PROLIFERATION

ACTIVATION PRODUCT
SEE BLOOD COAGULATION, ACTIVATION PRODUCT

ACTIVE IMMUNIZATION
SEE IMMUNITY, IMMUNIZATION ACTIVE

ACTIVE TRANSPORT
SEE BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT

ACTOMYOSIN
SEE MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), ACTOMYOSIN

ACUTE DISEASES (DISORDERS)
SEE DISEASES, ACUTE (GENERAL)

ACUTE LEUKEMIA
SEE NEOPLASMS OF BLOOD AND RE SYSTEM, LEUKEMIA ACUTE

ACUTE PHASE PROTEINS
SEE IMMUNOLOGY, ACUTE PHASE PROTEINS

ACUTE RENAL FAILURE (LOWER NEPHRON)
SEE KIDNEY DISORDERS, NEPHROSIS LOWER NEPHRON

ACUTE TREATMENT,DRUGS
SEE DOSAGE AND ROUTE, RATE AND DURATION OF ADMINISTRATION

ACYLATION
SEE ACYLS, ACYLATION

ACYL-COA
SEE COENZYMES, COENZYME A, ACYL-COA

ACYL COENZYME A DEHYDROGENASES
SEE OXIDOREDUCTASES, ACYL-COA DEHYDROGENASE

ACYL-COENZYME A
SEE COENZYMES, COENZYME A, ACYL-COA

ACYL GROUPS
SEE ACYLS, ACYL GROUPS

ACYLS, ACYL GROUPS
R01HL-15646-03 Lipid studies in vascular smooth muscle cells (human, monkeys)
R01HL-20308-02 Regulation of myocardial acylcarnitine transport (rats)
R23HL-21251-01 Metabolism of neutral lipids in the pulmonary alveolus (rabbits)

ACYLS, ACYLATION
R01HL-13567-06 Ion transport across cell membranes (human)
R01HL-18181-04 Surfactant metabolism–Alveolar cells and lung disease (mice, rabbits)
R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors
P01HL-22619-01 0007 Cellular mechanisms of heart failure - Regulation of contractile protein levels in heart muscle (rats)
R01HL-22651-01 Control of protein metabolism in heart muscle

ACYLS, ACYLATION, ACETYLATION
P01HL-12738-10 0001 Physiologicpharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
P50HL-14147-08 0001 Specialized center of research in thrombosis - Role of aspirin, other anti-platelet agents in platelet function (rat, human)
R01HL-17947-04 Experimental renal and neurogenic hypertension (human, animals)
R01HL-20794-02 Prostaglandin synthesis in human platelets (also in sheep, rabbit)
** R01HL-20925-01 The acetylation of fetal hemoglobin (human)

N-ACYLSPHINGOSINE
SEE SPHINGOLIPIDS, CERAMIDE

ACYLTRANSFERASES
SEE TRANSACYLASES

ADAMS-STOKES SYNDROME
SEE HEART DISORDERS, ARRHYTHMIA, HEART BLOCK, STOKES-ADAMS SYNDROME

ADAPTATION BIOLOGICAL, PHYSIOLOGICAL
SEE ENVIRONMENT, ADAPTATION

ADAPTATION, PSYCHOLOGICAL
SEE PSYCHOLOGICAL ADAPTATION

ADDISON'S DISEASE
SEE ADRENAL GLANDS DISORDERS, ADDISON'S DISEASE

ADENINE
SEE PURINES, ADENINE

ADENINE NUCLEOSIDE
SEE PURINE NUCLEOSIDES, ADENINE NUCLEOSIDES

ADENINE NUCLEOTIDES
SEE PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES

ADENINE PHOSPHORIBOSYLTRANSFERASE
SEE GLYCOSYLTRANSFERASES, ADENINE PHOSPHORIBOSYLTRANSFERASE

ADENOMA
SEE NEOPLASMS, ADENOMA

ADENOSINE
SEE PURINE NUCLEOSIDES, ADENINE NUCLEOSIDES, ADENOSINE

ADENOSINE DEAMINASE
SEE AMINOHYDROLASES, ADENOSINE DEAMINASE

ADENOSINE DIPHOSPHATE
SEE PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, ADP

ADENOSINE MONOPHOSPHATE
SEE PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, AMP

ADENOSINE MONOPHOSPHATE CYCLIC
SEE PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, AMP CYCLIC

ADENOSINE PHOSPHATES
SEE PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, ADENOSINE PHOSPHATES

ADENOSINE TRIPHOSPHATASE
SEE PHOSPHATASES, ADENOSINE TRIPHOSPHATASE

ADENOSINE TRIPHOSPHATE
SEE PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, ATP

S-ADENOSYLMETHIONINE
SEE NUCLEOSIDYL AMINO ACIDS, S-ADENOSYLMETHIONINE

ADENOVIRUSES
SEE VIRUSES, ADENOVIRUSES

ADENYLATE CYCLASE
SEE NUCLEOTIDYL-CYCLASES, ADENYLATE CYCLASE

ADENYLATE DEAMINASE
SEE AMINOHYDROLASES, ADENYLATE DEAMINASE

ADENYLATE KINASE
SEE PHOSPHOTRANSFERASES, ATP:AMP PHOSPHOTRANSFERASE

ADENYL-5-PHOSPHATASE
SEE PHOSPHOMONOESTERASES, 5'-NUCLEOTIDASE

ADH
SEE PITUITARY-DIENCEPHALON HORMONES, VASOPRESSIN

ADHESION
SEE PHYSICAL PROPERTIES, ADHESION

ADHESIONS (DISEASE COMPLICATIONS)
SEE DISEASES, COMPLICATIONS, ADHESIONS

ADHESIVES
SEE SURGICAL ADHESIVES

ADIPOKINETIC SUBSTANCES, PITUITARY
SEE LIPID MOBILIZING FACTORS PITUITARY

ADIPOSE TISSUE
SEE CONNECTIVE TISSUE, ADIPOSE

ADJUNCT HEALTH (CARE) PERSONNEL
SEE HEALTH SCIENCES PROFESSIONS, HEALTH (CARE) PERSONNEL ALLIED

ADJUNCT MENTAL HEALTH PERSONNEL
SEE MENTAL HEALTH PERSONNEL ADJUNCT

ADJUSTMENT, EMOTIONAL
SEE PSYCHOLOGICAL ADAPTATION, EMOTIONAL ADJUSTMENT

ADJUSTMENT, SOCIAL
SEE PSYCHOLOGY SOCIAL, SOCIAL ADJUSTMENT

ADJUSTMENT TO ENVIRONMENT
SEE ENVIRONMENT, ADAPTATION

ADJUVANTS IMMUNOLOGIC
SEE IMMUNOLOGICAL PREPARATIONS, ADJUVANTS IMMUNOLOGIC

ADMINISTRATION
SEE HEALTH ADMINISTRATION

ADOLESCENCE
SEE CHILDREN, ADOLESCENCE (12 TO 21 YRS)

ADP
SEE PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, ADP

ADRENAL CIRCULATION
** R01HL-21308-01 Prostaglandins and local control of the circulation (rats, dogs)

ADRENAL CORTEX HORMONES
SEE ALSO GLOBULINS, CORTICOSTEROID BINDING GLOBULIN
R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
P01HL-06285-18 0209 Cardiovascular-respiratory physiology and biochemistry - Metabolic studies of isolated lung cells (human, animals)
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
P01HL-06664-17 0010 Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
** P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension
P50HL-14218-07 0017 Pulmonary SCOR–Newborn lung center - Transvascular fluid exchange, vasoactive mediators in ROS (sheep, cat)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
P50HL-15061-07 0009 Response of lung to injury Alveolar macrophages (human, rabbits)
R01HL-15316-07 Lung surfactant system Control mechanisms (rats)
P01HL-16137-05 0013 Alveolar biology Development and pathology of surfactant Formation of alveolar (rabbits, sheep)
R01HL-16611-04 Digitalis-receptor of the heart (guinea pigs, rats)
R01HL-16651-05 Evaluation of steroid therapy in sarcoidosis (human)
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
R01HL-17903-03 Regional circulatory responses to hypoxia (rats, cats, rabbits)
R01HL-18204-03 Regional blood flow in viral myocarditis (turkeys)
P01HL-18208-04 0003 Center for the study of blood cell rheology - Bone marrow microcirculation (rats, mice)
** P50HL-18323-04 0037 SCOR hypertension center - Adrenocortical factors in childhood hypertension
** P50HL-18323-04 0038 SCOR hypertension center - Unknown adrenocortical mechanisms in hypertension (human)
P01HL-18645-03 0003 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
R01HL-18762-03 Post-traumatic pulmonary insufficiency (dogs)
P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
** R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
P50HL-19187-02 0001 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Changes in lung mechanics and gas exchange (monkeys)
P50HL-19187-02 0002 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Alterations in surface active material (monkeys)
R01HL-19237-03 Obstructive lung disease and alveolar macrophages (human, animals)
** R01HL-19539-03 Pathology of hypertensive-associated arteritis (rabbits)
R01HL-19669-03 Lung organ culture and surfactant biosynthesis (adult and fetal rats)
** P01HL-19717-02 0027 Response of the lung to injury - Hormone control of lung growth and development (rats)
P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic
P01HL-19717-02 0039 Response of the lung to injury - Lung scanning in alveolitis and asbestolic interstitial pneumonia (human, animal)
P01HL-19717-02 0040 Response of the lung to injury - Immunosuppressive drugs in usual interstitial pneumonia (human)
R01HL-19722-03 Aerosol growth in the respiratory system (models)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-20080-02 Surgically induced myocardial edema (dogs)
R01HL-20384-09 Social stimulation, RNA and cardiovascular disease (animals)
R01HL-20905-02 Synthesis of fetal hemoglobin in erythroid cells (sheep, human)
R01HL-21140-01 Studies of pulmonay alveolar macrophage function (rabbits)
R01HL-21418-02 Experimental myocardial infarction (rats)
R01HL-21628-02 Biosynthesis of lung surfactant lipid (rabbit)
** R23HL-21917-01 Adrenal steroids in adolescent and adult hypertension
R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)
R01HL-22266-01 Production of proteases by lung cells in culture (human, rodents, rabbits, sheep)
R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)
R01HL-22563-02 Prostaglandins, the kidney and hypertension (rats)
R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis
R01HL-23981-01 Acute alveolar injury (dogs)
** N01HR-62948-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62949-05 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62950-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62951-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62952-05 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome

ADRENAL CORTEX HORMONES, ALDOSTERONE

SEE ALSO ADRENAL CORTEX HORMONES, ALDOSTERONE STIMULATING FACTORS
SEE ALSO ADRENAL CORTEX HORMONES, 4 PREGNENE 11BETA,18,21 TRIOL 3,20-DIONE
SEE ALSO ADRENAL GLANDS DISORDERS, HYPERALDOSTERONISM
SEE ALSO ADRENAL GLANDS DISORDERS, HYPOALDOSTERONISM

R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
R01HL-03303-21 Factors regulating electrolyte excretion by the kidney (human, dogs)
** P01HL-06285-18 0193 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Aldosterone (rats, toads)
** P01HL-06285-18 0194 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--RNA synthesis (rats, toads)
P01HL-06285-18 0196 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport-Epithelial cell membranes (toads)
P01HL-06285-18 0199 Cardiovascular-respiratory physiology and biochemistry - Renal tubular reabsorption of sodium chloride (hamsters, rabbits)
P01HL-06664-17 0040 Cardiopulmonary function in remediable vascular disease - The coupling of ion transport to metabolism (toads)
P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
** P01HL-06835-17 0032 Cardiovascular disease - Synthesis of angiotensin II as inhibitors for aldosterone
P01HL-06835-17 0050 Cardiovascular disease - 18-Hydroxylase block in the 17 alpha-hydroxylase deficiency syndrome (human)
P01HL-06835-17 0055 Cardiovascular disease - Vascular and adrenocortical response to angiotensin II (dogs)
** P01HL-06835-17 0056 Cardiovascular disease - Angiotensin analogs--Sarcosine on arterial pressure, aldosterone (dogs)
R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
R01HL-09911-12 Hormonal and dietary modification of NaCl toxicity (rats) mice)
** R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
M R01HL-10612-13 Humoral factors in heart failure and hypertension
R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
** R01HL-10612-13 0019 Humoral factors in heart failure and hypertension - Pathogenesis of hypertension in the spontaneous hypertensive rat
R01HL-10612-13 0020 Humoral factors in heart failure and hypertension - The control of renin release in the dog
** R01HL-10612-13 0021 Humoral factors in heart failure and hypertension - The control of aldosterone secretion (dogs)
** R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension
M P01HL-11678-11 Cardiovascular dynamics and their control
P01HL-11678-11 0034 Cardiovascular dynamics and their control - Renal function curves in intact dogs
P01HL-11678-11 0040 Cardiovascular dynamics and their control - Control of plasma potassium concentration (dogs)
** P01HL-11678-11 0046 Cardiovascular dynamics and their control - Regulation of aldosterone secretion and related factors (dogs)
** P01HL-11678-11 0047 Cardiovascular dynamics and their control - Unidentified pituitary factor in regulation of aldosterone secretion (rats)
P01HL-11678-11 0065 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (dogs)
** P01HL-11678-11 0066 Cardiovascular dynamics and their control - Closed-loop analysis of the aldosterone control system (dogs)
** R01HL-13917-20 Secretion and effects of adrenal hormones (human, rabbits, sheep)
** R01HL-14148-07 0007 The regional circulations - Salivary composition in hypertension (human)
P50HL-14159-08 0008 Specialized center of research in hypertension - Renal function and sodium metabolism in hypertension (rats, human, rabbits)
P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
P50HL-14159-08 0022 Specialized center of research in hypertension - Core laboratory
P50HL-14192-08 0003 Specialized center of research in hypertension - Prostaglandins as mediators of renin secretion (human, dog)
P50HL-14192-08 0007 Specialized center of research in hypertension - Role of new mineralocorticoids in hypertension (human, rats)
R01HL-14306-07 Quantification of arterial pressure control (dogs)
P01HL-14388-07 0188 Regulation of the circulation in pathological states Renin-angiotensin system in the sheep fetus
** P01HL-14388-07 0190 Regulation of the circulation in pathological states Mechanisms of the renal actions of aldosterone (rats)
P01HL-14388-07 0191 Regulation of the circulation in pathological states Regulation of chloride transport in epithelial membranes (turtles)
P01HL-14388-07 0223 Regulation of the circulation in pathological states Kallikrein-kinin system in hypertension (rats)
P01HL-14388-07 0224 Regulation of the circulation in pathological states Kallikrein-kinin system in hypertension (human)
P01HL-14388-07 9002 Regulation of the circulation in pathological states Core immunoassay laboratory (rabbits)
R01HL-16496-04 Prostaglandins and renin experimental hypertension (rabbits)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
R01HL-16918-05 Role of steroids in hypertension (human)
R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)
R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
** R01HL-17847-04 Cardiovascular and renal functions of marmots
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
P50HL-18318-03 0003 Pathogenesis and complications of hypertension - Core biochemical laboratory
P50HL-18318-03 0004 Pathogenesis and complications of hypertension - Steroid and renin profiles in hypertension (rats, human)
P50HL-18318-03 0014 Pathogenesis and complications of hypertension - Arterial metabolism and atherogenesis (rat, rabbit)
P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
P50HL-18323-04 0011 SCOR hypertension center - Endocrine profiling on a selected normal population (human)
P50HL-18323-04 0012 SCOR hypertension center - Renin as a risk factor (human)
** P50HL-18323-04 0033 SCOR hypertension center - Core taboratory--Renin, aldosterone and bradykinin methodology
P50HL-18323-04 0038 SCOR hypertension center - Unknown adrenocortical mechanisms in hypertension (human)
** P50HL-18323-04 0043 SCOR hypertension center - Pharmacology--Renin-aldosterone mechanisms in essential hypertension (human)
P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
P01HL-18575-03 0011 Mechanisms of vascular changes in hypertension - Chemistry laboratory core facility
R01HL-18624-03 Study of kinins in hypertension and other diseases (human)
R01HL-18862-02 Thirst and its contribution to edema (dogs)
** R01HL-18882-02 Hormones in hypertension (human)
R01HL-18891-02 Electrolyte intake and blood pressure in hypertension (human)
R01HL-18893-03 Mechanism of angiotensin action--Role of receptor (rats)
** R01HL-19279-03 Intracellular action of aldosterone in hypertension (human, rats)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
P50HL-19362-02 0010 A/S SCOR--Atherosclerosis in nonhuman primates - Antihypertensive therapy--Atherogenesis in experimental hypertension (baboon)
R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
R01HL-19467-03 Regulation of blood pressure (rats, dogs)
R01HL-19539-03 Pathology of hypertensive-associated arteritis (rabbits)
R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)
** R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)
** R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood flow in hypertension (rats)
** R23HL-21066-02 Angiotensin and prostaglandin control of aldosterone (rats)
R01HL-21092-02 Factors other than renin in renal hypertension (rats)
** R01HL-21112-02 Aldosterone binding, clearance, and secretion in man
R01HL-21435-02 Control, cardiovascular and renal effects of potassium (dogs)
R23HL-21917-01 Adrenal steroids in adolescent and adult hypertension

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level
**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

** R01HL-21996-01 Alteration of digitalis and aldosterone disposition (ratsr rabbits, mice, dogs)
R01HL-22069-02 Experimental renal arterial hypertension (dogs)
R01HL-22298-02 Origins of hypertension (human)
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)
R01HL-22990-01 Angiotensin II receptors--Mechanisms of regulation (rats)
** R01HL-23115-01 Regulation of active sodium transport (frogs, rats)
R01HL-23201-01 Mechanisms of hypertension (human, rats)
** R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

ADRENAL CORTEX HORMONES, ALDOSTERONE INHIBITORS

SEE ALSO STEROIDS SPIROLACTONES, SPIRONOLACTONE
P01HL-06835-17 0055 Cardiovascular disease - Vascular and adrenocortical response to angiotensin II (dogs)

ADRENAL CORTEX HORMONES, ALDOSTERONE STIMULATING FACTORS

SEE ALSO PEPTIDES, VASOACTIVE PEPTIDES, ANGIOTENSIN II
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, ACTH
P50HL-18323-04 0044 SCOR hypertension center - Angiotensin blockade to identify angiotensin II factor in hypertension (human)

ADRENAL CORTEX HORMONES, CORTICOSTERONE

R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
P50HL-18318-03 0004 Pathogenesis and complications of hypertension - Steroid and renin profiles in hypertension (rats, human)
P50HL-18323-04 0038 SCOR hypertension center - Unknown adrenocortical mechanisms in hypertension (human)
R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)
R23HL-21917-01 Adrenal steroids in adolescent and adult hypertension

ADRENAL CORTEX HORMONES, CORTISONE

P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
P01HL-16769-05 0010 Pathobiologic and host defense reactions in the lung - Bronchus associated lymphoid tissue and delayed hypersensitivity (rabbits)
R01HL-18028-03 Absorption of nonvolatile compounds from the lung
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
P01HL-19717-02 0007 Response of the lung to injury - Cellular level studies of prostaglandin-like molecules (cattle)
R23HL-21997-01 Pulmonary immunopathology in the compromised host (guinea pigs)

ADRENAL CORTEX HORMONES, DEOXYCORTICOSTERONE

R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
R01HL-09911-12 Hormonal and dietary modification of NaCl toxicity (rats) mice)
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
P50HL-14192-08 0007 Specialized center of research in hypertension - Role of new mineralocorticoids in hypertension (human, rats)
R01HL-14560-07 Hypertension produced by sympathetic dysfunction (human, rats)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
R01HL-16918-05 Role of steroids in hypertension (human)
R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
P50HL-18318-03 0003 Pathogenesis and complications of hypertension - Core biochemical laboratory
P50HL-18318-03 0004 Pathogenesis and complications of hypertension - Steroid and renin profiles in hypertension (rats, human)
P50HL-18318-03 0009 Pathogenesis and complications of hypertension - The mineralocorticoid-hypertensive syndrome in man
P50HL-18323-04 0038 SCOR hypertension center - Unknown adrenocortical mechanisms in hypertension (human)
P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
P01HL-18575-03 0005 Mechanisms of vascular changes in hypertension - Renin synthesis in normotensive and hypertensive pigs (also rats, dogs)
P01HL-18575-03 0011 Mechanisms of vascular changes in hypertension - Chemistry laboratory core facility
R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)
R01HL-21112-02 Aldosterone binding, clearance, and secretion in man

ADRENAL CORTEX HORMONES, 11-DEOXY-17-HYDROXYCORTICOSTERONE

P01HL-06835-17 0050 Cardiovascular disease - 18-Hydroxylase block in the 17 alpha-hydroxylase deficiency syndrome (human)
** R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
P50HL-18323-04 0038 SCOR hypertension center - Unknown adrenocortical mechanisms in hypertension (human)
R23HL-21917-01 Adrenal steroids in adolescent and adult hypertension

ADRENAL CORTEX HORMONES, GLUCOCORTICOIDS

P01HL-10342-13 0027 The integrated function of respiration and circulation - Control of respiration--Cardiovascular adjustment to hypoxia and carbon monoxide
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
P50HL-14214-07 0023 Newborn lung center for hyaline membrane disease - Regulation of fetal lung maturation--Vitamin A (rat, rabbit, sheep, human)
P50HL-14214-07 0024 Newborn lung center for hyaline membrane disease - Synthesis and receptors for ACTH in fetal lung (human)
R01HL-15341-06 Lung hormonal and chromosomal regulation (rats, rabbits)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
R01HL-16918-05 Role of steroids in hypertension (human)
P01HL-17419-04 0006 Studies on mechanisms of hemostasis - Effect of hormones, drugs and other agents on fibrinogen synthesis (chick)
R01HL-17458-04 Renal control of sodium excretion (rats)
R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
** R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
** P50HL-19185-02 0005 Pulmonary SCOR--Neonatal respiratory distress syndromes - Role and mechanism of glucocorticoids in fetal lung maturation (human, rabbit)
P50HL-19190-02 0003 Pulmonary SCOR--Pathophysiology, management of IRDS - Type II cells--Regulation and differentiation (rat)
R01HL-19195-03 Hormonal regulation of lung function (rats)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-20199-02 Drug-induced alterations in infarct size in the rat
R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)
** R01HL-23115-01 Regulation of active sodium transport (frogs, rats)

ADRENAL CORTEX HORMONES, HYDROCORTISONE

P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-14706-07 Fetal hearts in organ culture (mice)
R01HL-15677-06 Autonomic nervous system function in bronchial asthma (human, guinea pig, rabbit)
R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
P50HL-18323-04 0038 SCOR hypertension center - Unknown adrenocortical mechanisms in hypertension (human)
R01HL-18537-04 Regional blood flow after acute myocardial injury (dogs)
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
P50HL-19185-02 0005 Pulmonary SCOR--Neonatal respiratory distress syndromes - Role and mechanism of glucocorticoids in fetal lung maturation (human, rabbit)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
** P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
R01HL-19752-03 Phospholipid synthesis by fetal lung in organ culture (rats)
R01HL-20364-01 Episodic hypertension associated with human behavior (air traffic controllers)
R01HL-20719-02 Cold induced pulmonary hypertension (cattle)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R23HL-21917-01 Adrenal steroids in adolescent and adult hypertension

ADRENAL CORTEX HORMONES, MINERALOCORTICOIDS

R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
R01HL-09911-12 Hormonal and dietary modification of NaCl toxicity (rats) mice)
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension
R01HL-14133-08 Intrarenal regulation of sodium reabsorption (dogs, hamsters, rats)
** P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
** P50HL-14192-08 0007 Specialized center of research in hypertension - Role of new mineralocorticoids in hypertension (human, rats)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
** R01HL-16918-05 Role of steroids in hypertension (human)
R01HL-17458-04 Renal control of sodium excretion (rats)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
R01HL-18185-04 Cardiac glycosides and diuretics--Role of NaO pump (dogs)
M P50HL-18318-03 Pathogenesis and complications of hypertension
P50HL-18318-03 0001 Pathogenesis and complications of hypertension - Core clinical program
** P50HL-18318-03 0004 Pathogenesis and complications of hypertension - Steroid and renin profiles in hypertension (rats, human)
P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
** P50HL-18318-03 0009 Pathogenesis and complications of hypertension - The mineralocorticoid-hypertensive syndrome in man
** P50HL-18318-03 0010 Pathogenesis and complications of hypertension - Hemodynamics in mineralocorticoid and low renin hypertension (human)
P50HL-18318-03 0011 Pathogenesis and complications of hypertension - Adrenergic function--Renin and mineralocorticoid activity (human)
P50HL-18323-04 0037 SCOR hypertension center - Adrenocortical factors in childhood hypertension
P50HL-18323-04 0038 SCOR hypertension center - Unknown adrenocortical mechanisms in hypertension (human)
P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
** R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
** R01HL-19279-03 Intracellular action of aldosterone in hypertension (human, rats)
R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)
** R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
R01HL-21112-02 Aldosterone binding, clearance, and secretion in man
R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
R23HL-21291-02 Renin-mineralocorticoid axis in hypertensive diabetics (human)
R01HL-21779-01 Steroids in adrenal regeneration hypertension (rats)
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)

ADRENAL CORTEX HORMONES, 4-PREGNENE-11BETA,18,21-TRIOL-3,20-DIONE

SEE ALSO ADRENAL CORTEX HORMONES, ALDOSTERONE
P50HL-18323-04 0038 SCOR hypertension center - Unknown adrenocortical mechanisms in hypertension (human)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)

ADRENAL CORTEX HORMONES ANALOGS, DEXAMETHASONE

P01HL-06835-17 0050 Cardiovascular disease - 18 Hydroxylase block in the 17 alpha-hydroxylase deficiency syndrome (human)
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension
R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)
R01HL-17458-04 Renal control of sodium excretion (rats)
R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
P50HL-18323-04 0037 SCOR hypertension center - Adrenocortical factors in childhood hypertension
R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)
R01HL-19237-03 Obstructive lung disease and alveolar macrophages (human, animals)

ADRENAL CORTEX HORMONES ANALOGS, FLUDROCORTISONE

P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)

ADRENAL CORTEX HORMONES ANALOGS, METHYLPREDNISOLONE

P01HL-06312-17 0018 Surgical cardiology - Cardiac transplantation growth (calves)
R01HL-08696-15 0012 Orthotopic heart transplantation - Transplantation immunology--Modulation of donor antigenicity (dogs)
R01HL-08696-15 0013 Orthotopic heart transplantation - Transplantation immunology--Cardiac heterotransplantation (rabbits, dogs)
P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)
R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
P50HL-19153-02 0003 SCOR--Pulmonary edemas--Etiology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)
R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)

ADRENAL CORTEX HORMONES ANALOGS, PREDNISONE

P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)
R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)

ADRENAL CORTEX (HORMONES) INHIBITORS

SEE ALSO ADRENAL CORTEX HORMONES, ALDOSTERONE INHIBITORS
P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension
R01HL-19209-03 Role of AOH in experimental renal hypertension (dogs, rats)

ADRENAL GLANDS

SEE ALSO ADRENAL MEDULLA
SEE ALSO PITUITARY-ADRENAL AXIS
R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
P01HL-06835-17 0055 Cardiovascular disease - Vascular and adrenocortical response to angiotensin II (dogs)
P01HL-06835-17 0056 Cardiovascular disease - Angiotensin analogs--Sarcosine on arterial pressure, aldosterone (dogs)
R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
R01HL-10942-09 Study of genetic hypertension in rats
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
R01HL-17847-04 Cardiovascular and renal functions of marmots
** P01HL-18974-03 0010 Experimental neurogenic hypertension program - Biochemistry and regulation of PNMT in brain (rats)
R01HL-20061-02 Serum lipoproteins and cell cholesterol metabolism (rats, human)
** P01HL-20948-02 0007 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
** R01HL-22990-01 Angiotensin II receptors--Mechanisms of regulation (rats)

ADRENAL GLANDS DISORDERS

SEE ALSO DISEASES, SIGNS-SYMPTOMS, HIRSUTISM
SEE ALSO METABOLIC DISORDERS INBORN, LIPID (NEUTRAL) STORAGE, WOLMAN'S DISEASE
SEE ALSO NEOPLASMS OF ENDOCRINES, ADRENAL GLANDS NEOPLASMS
** P01HL-06370-17 0015 Cardiopulmonary and renal pathology research center - Pathogenesis of chemically induced tissue injury (rats)
** P01HL-06835-17 0050 Cardiovascular disease - 18 Hydroxylase block in the 17 alpha-hydroxylase deficiency syndrome (human)
R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
R01HL-22506-01 Hemodynamics of the clinical hypertensions

ADRENAL GLANDS DISORDERS, ADDISON'S DISEASE

R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)

ADRENAL GLANDS DISORDERS, ADRENAL HYPERTENSION

SEE ALSO ADRENAL GLANDS DISORDERS, HYPERALDOSTERONISM
SEE ALSO KIDNEY-CIRCULATORY DISORDERS, RENAL HYPERTENSION
SEE ALSO KIDNEY-CIRCULATORY DISORDERS, RENOPRIVAL HYPERTENSION
** P01HL-06835-17 0047 Cardiovascular disease - Spironolactone in primary aldosteroidism (human)
P01HL-06835-17 0048 Cardiovascular disease - Aldosterone producing adenoma prediction of curability (human)
** R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
** R01HL-09911-12 Hormonal and dietary modification of NaCl toxicity (rats) mice)
R01HL-10942-09 Study of genetic hypertension in rats
** R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension
R01HL-13408-05 Environmental-genetic interactions in hypertension (rats)
R01HL-13917-20 Secretion and effects of adrenal hormones (human, rabbits, sheep)
** R01HL-13936-06 Microvascular responses in hypertension (human, rats)
P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
P50HL-14159-08 0024 Specialized center of research in hypertension - Core resources (clinical, animal models)
** P50HL-14192-08 0007 Specialized center of research in hypertension - Role of new mineralocorticoids in hypertension (human, rats)
R01HL-15839-05 Physiological role of isorenin and kallikrein (animals)
** R01HL-17458-04 Renal control of sodium excretion (rats)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
** R01HL-18102-02 Role of the adrenal cortex in human hypertension
P50HL-18318-03 0002 Pathogenesis and complications of hypertension - Core experimental animal facility (rats, rabbits)
** P50HL-18318-03 0004 Pathogenesis and complications of hypertension - Steroid and renin profiles in hypertension (rats, human)
P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
M P50HL-18323-04 SCOR hypertension center
** P50HL-18323-04 0037 SCOR hypertension center - Adrenocortical factors in childhood hypertension
** P50HL-18323-04 0038 SCOR hypertension center - Unknown adrenocortical mechanisms in hypertension (human)
P50HL-18323-04 0044 SCOR hypertension center - Angiotensin blockade to identify angiotensin II factor in hypertension (human)
** P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
** P01HL-18575-03 0010 Mechanisms of vascular changes in hypertension - Hypertensive pig Core
** R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
** R01HL-18893-03 Mechanism of angiotensin action--Role of receptor (rats)
** R01HL-19027-03 Calcium and cyclic AMP in causation of hypertension (rats)
** R01HL-19144-03 Contraceptive steroids and experimental hypertension (rats)
** R01HL-19209-03 Role of AOH in experimental renal hypertension (dogs, rats)
R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
** R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)
R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)
** R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
** R01HL-20384-09 Social stimulation, RNA and cardiovascular disease (animals)
** R01HL-20604-03 Sympathectomy-Cardiovascular and molecular pharmacology (animals)
R01HL-21307-01 Risk reduction and exercise fitness in a population
** R01HL-21498-02 Pathophysiology of edema (rats, cats)
** R01HL-21779-01 Steroids in adrenal regeneration hypertension (rats)
** R01HL-21877-01 Iso-renins in the hypertensive rat
** R23HL-21914-01 Studies of vasomotor control (rats)

ADRENAL GLANDS DISORDERS, HYPERADRENALISM, CUSHING'S SYNDROME

P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)

ADRENAL GLANDS DISORDERS, HYPERALDOSTERONISM

SEE ALSO ADRENAL CORTEX HORMONES, ALDOSTERONE
SEE ALSO CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), ANGIOTENSIN-RENIN-ALDOSTERONE-ASSOCIATED
P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
** P01HL-06835-17 0047 Cardiovascular disease - Spironolactone in primary aldosteroidism (human)
P01HL-06835-17 0059 Cardiovascular disease - Metyrapone-induced hypertension in dog
R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
** R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
** R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
R01HL-13917-20 Secretion and effects of adrenal hormones (human, rabbits, sheep)
P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
P50HL-14159-08 0024 Specialized center of research in hypertension - Core resources (clinical, animal models)
R01HL-16918-05 Role of steroids in hypertension (human)
R01HL-17458-04 Renal control of sodium excretion (rats)
R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
P50HL-18318-03 0009 Pathogenesis and complications of hypertension - The mineralocorticoid-hypertensive syndrome in man
** P50HL-18318-03 0010 Pathogenesis and complications of hypertension - Hemodynamics in mineralocorticoid and low renin hypertension (human)
P50HL-18323-04 0042 SCOR hypertension center - Blood viscosity and blood volume in hypertensive disease (human, dog)
P50HL-18323-04 0044 SCOR hypertension center - Angiotensin blockade to identity angiotensin II factor in hypertension (human)
R01HL-18624-03 Study of kinins in hypertension and other diseases (human)
R23HL-21066-02 Angiotensin and prostaglandin control of aldosterone (rats)
R01HL-21274-01 Prorenin--Physiological and biochemical analysis (human)
R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
R01HL-23201-01 Mechanisms of hypertension (human, rats)

ADRENAL GLANDS DISORDERS, HYPOALDOSTERONISM

SEE ALSO METABOLIC DISORDERS INBORN, BARTTER'S SYNDROME
** P01HL-06835-17 0049 Cardiovascular disease - Selective hypoaldosteronism (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject

M Grant has subprojects describing specific research aspects
See Appendix for investigator's name and grant number.

ADRENAL GLANDS DISORDERS, HYPOALDOSTERONISM, HYPORENINEMIC
P01HL-06835-17 0059 Cardiovascular disease - Metyrapone-induced hypertension in dog
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
** R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)

ADRENAL GLANDS NEOPLASMS
SEE NEOPLASMS OF ENDOCRINES, ADRENAL GLANDS NEOPLASMS

ADRENAL HYPERTENSION
SEE ADRENAL GLANDS DISORDERS, ADRENAL HYPERTENSION

ADRENAL MEDULLA
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
** R01HL-18148-04 Adrenal catecholamine secretion
R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
R01HL-22170-01 Factors influencing transmission at adrenergic synpases

ADRENAL MEDULLA HORMONES
SEE ALSO PHENYLALKYLAMINES, CATECHOLAMINES, EPINEPHRINE
SEE ALSO PHENYLALKYLAMINES, CATECHOLAMINES, NOREPINEPHRINE
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)

ADRENALECTOMY
P01HL-06835-17 0031 Cardiovascular disease - Synthesis of potent antagonist of pressor action of angiotensin II (animals)
P01HL-06835-17 0047 Cardiovascular disease - Spironolactone in primary aldosteroidism (human)

ADRENALIN OXIDASE
SEE OXIDOREDUCTASES, AMINE OXIDASE (FLAVIN CONTAINING)

ADRENALINE
SEE PHENYLALKYLAMINES, CATECHOLAMINES, EPINEPHRINE

ADRENERGIC AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, SYMPATHOMIMETIC

ADRENERGIC BLOCKING AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, SYMPATHOLYTIC

ADRENERGIC ALPHA RECEPTOR AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, SYMPATHOMIMETIC, ADRENERGIC ALPHA

ADRENERGIC BETA RECEPTOR AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, SYMPATHOMIMETIC, ADRENERGIC BETA

ADRENERGIC ALPHA RECEPTOR BLOCKING AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, SYMPATHOLYTIC, ADRENERGIC ALPHA

ADRENERGIC BETA RECEPTOR BLOCKING AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, SYMPATHOLYTIC, ADRENERGIC BETA

ADRENERGIC RECEPTORS
SEE NEUROTRANSMITTERS RECEPTORS, ADRENERGIC RECEPTORS

ADRENERGIC ALPHA RECEPTORS
SEE NEUROTRANSMITTERS RECEPTORS, ADRENERGIC RECEPTORS, ALPHA RECEPTORS

ADRENERGIC BETA RECEPTORS
SEE NEUROTRANSMITTERS RECEPTORS, ADRENERGIC RECEPTORS, BETA RECEPTORS

ADRENOCORTICOTROPIC HORMONE
SEE PITUITARY-DIENCEPHALON HORMONES, ACTH

ADRIAMYCIN
SEE ANTIBIOTICS, ADRIAMYCIN

ADSORPTION
SEE PHYSICAL PROPERTIES, ADSORPTION

ADULT ANIMAL
SEE AGE (ANIMAL), MATURE (ADULT)

ADULTS
SEE AGE (HUMAN), ADULT

AEROBES, BACTERIAL
SEE MICROORGANISMS, AEROBES

AEROBIC MICROORGANISMS
SEE MICROORGANISMS, AEROBES

AEROBIOSIS
SEE RESPIRATION INTERNAL, AEROBIOSIS

AEROSOL AND PARTICLE BEAMS
SEE PHYSICAL PROPERTIES, AEROSOL AND PARTICLE BEAMS

AEROSOL THERAPY, RESPIRATORY DISORDERS
SEE RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, AEROSOL THERAPY

AEROSOLS
SEE PHYSICAL PROPERTIES, AEROSOLS

AFFECT
SEE PSYCHOLOGY, EMOTIONS

AFFECTIVE DISORDERS
SEE PSYCHOLOGY ABNORMAL, EMOTIONAL DISORDERS

AFFERENT NERVES
SEE NERVOUS SYSTEM, AFFERENT NERVES

AFFINITY CHROMATOGRAPHY
SEE PHYSICAL SEPARATION, CHROMATOGRAPHY, AFFINITY

AFIBRINOGENEMIA
SEE BLOOD COAGULATION DISORDERS, AFIBRINOGENEMIA

AFRICA
SEE GEOGRAPHICAL SITES, AFRICA

AFRO AMERICANS
SEE SOCIAL GROUPS, ETHNIC, AMERICANS, BLACK AMERICANS

AFTER CARE (POST-HOSPITALIZATION)
SEE HEALTH CARE SERVICES, PATIENT CARE, POST-HOSPITALIZATION CARE

AGE (ANIMAL)
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
P01HL-08805-15 0039 Regulation of ventilation and pulmonary circulation - Carotid body (cats)
R01HL-09234-13 Amino acids of contractile proteins of failing hearts (dogs, hamsters)
R01HL-10612-13 0019 Humoral factors in heart failure and hypertension - Pathogenesis of hypertension in the spontaneous hypertensive rat
P01HL-11310-12 0089 Mechanisms of cardiovascular disease - Structure and function in myocardial contraction (dogs)
P01HL-11310-12 0106 Mechanisms of cardiovascular disease - Biochemical characterization of the collagens in vascular tissue (catte)
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
P01HL-12738-10 0134 Physiologic pharmacology and its clinical applications - Adenylate cyclase and cAMP phosphodiesterase in cardiac development (dogs)
P01HL-14388-07 0168 Regulation of the circulation in pathological states - Ionic basis of depolarization (rats, tissue culture)
R01HL-14526-07 Oral contraceptives and hypertension (rats)
R01HL-15444-06 Neonatal development of adrenergic receptor mechanisms (pigs)
R01HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
R01HL-15840-02 Sugar-induced heart lesions and vitamin K deficiency (birds, mammals subhuman)
R01HL-16420-02 Effect of training-detraining on the rat heart
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
R01HL-18002-03 Circulatory shock, trauma and RE-system function (rats)
R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
R01HL-19225-02 0002 Types and mechanims of pulmonary hypertension - Effect of aorto-pulmonary shunt (pigs)
R01HL-19741-03 Murine CRD--A model of chronic pulmonary inflammation (mice, rats)
R01HL-20170-02 Pulmonary infection in splenectomized animals (mice)
P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
R01HL-20572-02 0007 Hemodynamic relations to metabolism in hypertension - Drug effects on cardiac function and hypertropy (rats)
P01HL-20581-01 0002 Vascular neuroeffector mechanisms in health and disease - Trophic interaction between adrenergic nerves and vascular smooth muscle
P01HL-20581-01 0005 Vascular neuroeffector mechanisms in health and disease - Changes in the neuroeffector mechanism in hypertension (rabbits)
P01HL-20581-01 0006 Vascular neuroeffector mechanisms in health and disease - Neuroeffector mechanism in arteries and veins in hypertension (human)
P01HL-20592-02 0010 Cell biology of cardiac and skeletal muscle - Mitochondrial genesis during myocardial cell hypertrophy and hyperplasia (rats)
R01HL-20749-01 Developing heart--Biophysical aspects (sheep)
R01HL-21099-02 Subcellular changes of blood vessels in hypertension (rats)
R01HL-21245-02 Influence of chronic exercise on hypertension (rats, primates)
R01HL-21632-02 Development of a transcutaneous power transfer system (cattle)
R01HL-22226-01 Autonomic nervous elements in the developing heart (rabbits)
R01HL-22924-01 The airway mucosal barrier (guinea pigs)
** R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)
R01HL-23980-01 Effects of digoxin therapy in newborn and adult sheep

AGE (ANIMAL), IMMATURE
P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
R01HL-18082-03 Erythrocyte phosphates and vertebrate gas transport (amphibians, reptiles)
** R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs

AGE (ANIMAL), IMMATURE, LARVA
P01HL-07896-15 0060 Environmental biomedical research program - Effect of pressure on development of marine crustacean larvae

AGE (ANIMAL), INFANTS
P01HL-06312-17 0018 Surgical cardiology - Cardiac transplantation growth (calves)
P01HL-11307-12 0002 Biophysical studies in pediatric cardiology - Cardiac extracellular electrophysiology (human, dog, chimpanzee)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
P01HL-13480-09 0026 Cardiac electrophysiology - Neural influences on cardiac electrophysiology and contraction (dog, cat)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
P50HL-14164-07 0041 A/S SCOR--Comparative and experimental atherosclerosis - Nonhuman primate pediatric atherosclerosis risk factor
R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
** R01HL-16292-05 0019 Surgery and non-obstructive coronary insufficiency - Distortion of subendocardial vessels in infant hearts (dogs)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
** P50HL-19362-02 0001 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of infant nutrition on atherosclerosis (baboons)
** P50HL-19362-02 0002 A/S SCOR--Atherosclerosis in nonhuman primates - Infant caloric intake, adipose tissue development and atherosclerosis (baboon)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
R01HL-20548-02 Innervation of the lung (rats, monkeys)
R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
R01HL-23601-01 Early hypoxia and development of respiratory control

AGE (ANIMAL), INFANTS, BIRTH WEIGHT
SEE ALSO AGE (ANIMAL), INFANTS PREMATURE AND LOW BIRTH WEIGHT
R01HL-19352-03 Respiratory heat and water loss in neonates

AGE (ANIMAL), INFANTS MORTALITY
R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)

AGE (ANIMAL), INFANTS NEWBORN
N01HB-42971-12 Chimpanzees for hepatitis research
** R01HL-01755-25 Fetal and neonatal cardiovascular function (sheep)
R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
** P01HL-06285-18 0125 Cardiovascular-respiratory physiology and biochemistry - Myocardial function in the fetal and neonatal lamb
** P01HL-06285-18 0129 Cardiovascular-respiratory physiology and biochemistry - Pulmonary microcirculation in the fetus and neonate (lambs)
** R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
P01HL-10436-13 0015 A multidisciplinary study of congenital heart disease - Fetal and neonatal cardiovascular physiology (sheep)
R01HL-10942-09 Study of genetic hypertension in rats

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-11310-12 0064 Mechanisms of cardiovascular disease - Extracardiac anatomical correction of transposition of great arteries (puppies)
P01HL-11310-12 0076 Machanisms of cardiovescular disease Tratment of daprassed cardiac output following heart surgery (children, puppies)
P01HL-12157-11 0057 Functions and mechenisms of call mambrana ion transport Electrophysiological investigations of synthetic strands of heart muscles (rats)
** P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology Characterization of fetal and neonetal myocardium (human, cats)
R01HL-13237-09 Erythrocytes during early development (human, animals)
P50HL-14214-07 0025 Newborn lung center for hyaline mambrana disease - Pulmonary vascular permeability and lung water--Hyaline membrane diseasa (sheep)
P50HL-14214-07 0026 Newborn lung center for hyaline mambrane disease - Hemodynamic studies of HMO--Prostaglandins production and blockers (lambs)
P50HL-14214-07 0027 Newborn lung centar for hyaline membrana disease Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep)
P50HL-14214-07 0028 Newborn lung cantar for hyaline membrana disease - Relationship of trace metals to respiratory failure (dog, sheep, human)
P50HL-14214-07 0029 Newborn fung cantar for hyelina membrana disease - The diving reflex-Parinatal asphyxia, pulmonary ischemia and HMO (sheep)
P50HL-14214-07 0035 Newborn lung canter for hyafine membrane diseasa - Core--Animal cara facifity
P01HL-14388-07 0159 Regulation of the circulation in pathological states - Early drug and diet interventions and blood pressure development (rats)
P01HL-14388-07 0188 Regulation of the circulation in pathological states - Renin-angiotensin system in the shaap fetus
P01HL-14388-07 0196 Regulation of the circulation in pathological states - Altered vascular responsivaness in spontaneous hypertension (rats)
P01HL-14388-07 0197 Regulation of the circulation in pathological states - Alterad vascular reactivity in pathoganesis of spontaneous hypertension (rats)
** R01HL-14663-07 Pulmonary oxygen toxicity in newborn lung (human, mica)
** R01HL-15444-06 Neonatal davelopment of adrenergic receptor machanisms (pigs)
P60HL-15999-05 0019 Miami comprehensive sickla call canter - Fatal-adult hamoglobin switch (mousa, monkey)
R01HL-16022-05 Oaterminants of the ventilatory responsa to hypoxia (goats, cats)
P01HL-16117-05 0001 Ion movamants and mambranes in cardiovascular control - Devalopmental studias of contractile cell junctions (rats, rabbits, elasmobranch)
P01HL-16137-05 0013 Alveolar biology - Devalopment and pathology of surfactant--Formation of alveolar (rabbits, sheep)
** R01HL-16152-06 Electrophysiology of naonatal to adult heart (cats, frogs, guinea pigs)
P01HL-17430-05 0001 Control of coagulation - Porcine von Willabrand's disease
** R01HL-17629-03 Davalopmental aspects of cardiovascular function (human, cats, rabbits)
R01HL-17800-04 Pulmonary reflexas--Cantral pathways (cats, dogs, rabbits)
R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
R01HL-18028-03 Absorption of nonvolatile compounds from tha lung
** R01HL-18032-03 Devalopment of normal and myopathic mammalian heart (hamsters)
** R01HL-18952-03 Metabolism in perfused fetal and newborn rabbit lungs
P50HL-19185-02 0004 Pulmonary SCOR--Neonatal respiratory distress syndromes - Fluid and protein transport in fetal and newborn lung (sheep, rabbits)
P50HL-19187-02 0013 Pediatric pulmonary SCOR--Hyaline mambrane disease - Research resources core
P50HL-19190-02 0006 Pulmonary SCOR--Pathophysiology, management of IROS - Asphyxia--Respiratory control (dogs)
P50HL-19190-02 0007 Pulmonary SCOR--Pathophysiology, managament of IROS - Asphyxia--Cerebral metebolism (dog, rat)
R01HL-19333-03 Hematopoietic chimerism (mice, monkey)
P50HL-19362-02 0012 A/S SCOR--Atherosclerosis in nonhuman primates - Induction of chronic hypertension by salt loading (baboon)
R01HL-19486-03 Dipole moment measurement of cardiac mess (rabbits, pigs)
R01HL-19684-03 Histotypic lung culture in circumfusion systems (mice)
** P01HL-19717-02 0023 Response of tha lung to injury - Postnatal lung development--Cells, connective tissue and physiology (animals)
** P01HL-19717-02 0024 Response of the lung to injury - Formation of lung alveoli (rats)
** P01HL-19717-02 0025 Responsa of the lung to injury - Role of oxygen in regulation of lung growth and development (rats)
** P01HL-19717-02 0026 Response of the lung to injury - Protain depletion and postnatal lung development (rats)
** P01HL-19717-02 0027 Response of the lung to injury hormone control of lung growth and development (rats)
R01HL-20610-02 Nerve growth factor and obstructive cardiomyopathy (dogs)
R01HL-20961-02 Hemoglobin Y chain genes Evolution and inducibility (monkeys, human)
R01HL-21176-02 Phospholipid exchange proteins in lung tissue (lambs)
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
R23HL-21783-01 Ionic control of contractility in anoxic myocardium (rabbits, rats)
R01HL-22500-01 Conversion of choline to phosphatidylcholine in lung (rabbits, pigs)
R01HL-22664-01 Regulation of myocardial cell growth (rats, guinea pigs)
R01HL-22859-01 Effect of carbon monoxide on the developing heart (rats)
** R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)
R01HL-23736-04 Sickle cell anemia and hemoglobin synthesis (monkeys)
** R01HL-23980-01 Effects of digoxin therapy in newborn and adult sheep

AGE (ANIMAL), INFANTS PREMATURE AND LOW BIRTH WEIGHT

SEE ALSO PREGNANCY DISORDERS, EMBRYO-FETAL GROWTH DEVELOPMENT DISORDERS (SEE ALSO APPROPRIATE SPECIFICS)
P50HL-14214-07 0025 Newborn lung center for hyaline membrane disease - Pulmonary vascular permeability and lung water--Hyaline membrane diseasa (sheep)
P50HL-14214-07 0026 Newborn lung center for hyaline membrane disease - Hemodynamic studies of HMO--Prostaglandins production and blockers (lambs)
P50HL-14214-07 0029 Newborn lung center for hyaline membrane diseasa - The diving reflex-Parinatal asphyxia, pulmonary ischemia and HMO (sheep)
P50HL-14214-07 0035 Newborn lung center for hyaline membrane disease - Core--Animal care facility
P50HL-19185-02 0004 Pulmonary SCOR--Neonatal respiratory distress syndromes - Fluid and protein transport in fetal and newborn lung (sheep, rabbits)
M P50HL-19187-02 Pediatric pulmonary SCOR--Hyaline membrana diseasa
P50HL-19187-02 0001 Pediatric pulmonary SCOR--Hyaline membrana disease - Hyaline membrane disease--Changes in lung mechanics and gas exchange (monkeys)
P50HL-19187-02 0002 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrana diseasa--Alterations in surface activa material (monkeys)
P50HL-19187-02 0003 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrana disease--Ultrastructura studies (monkey)
P50HL-19187-02 0011 Pediatric pulmonary SCOR--Hyafine membrane disease - Effects of hypoxia and hypercapnia on developing nervous system (monkey, human)
** P50HL-19187-02 0013 Pediatric pulmonary SCOR--Hyaline membrana disease - Research resources core

AGE (ANIMAL), JUVENILE (POST-INFANCY TO PUBERTY)

P50HL-14164-07 0041 A/S SCOR--Comparative and experimental atherosclerosis - Nonhuman primate pediatric atherosclerosis risk factor

AGE (ANIMAL), MATURE (ADULT)

R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)

AGE (ANIMAL), PUBERTY

R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)

AGE (ANIMAL), WEANLING

R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)

AGE (HUMAN)

SEE ALSO AGE (ANIMAL)
SEE ALSO CELL AGE
SEE ALSO CHILDREN
SEE ALSO EMBRYOLOGY
SEE ALSO PREGNANCY, EMBRYO-FETUS
SEE ALSO PREGNANCY, EMBRYO-FETUS, GESTATIONAL AGE
P01HL-03174-23 0006 Mechanisms of acute vascular reaction to injury - Atherosclerotic plaque studies using mosaic analysis (human)
R01HL-03429-18 Central nervous system and coronary heart disease (human)
P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
P01HL-08974-14 0028 Natural and experimental atherosclerosis - Geographic pathology of atherosclerosis and coronary heart disease (human)
R01HL-13632-08 Vascular changes in diabetes mellitus (human)
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions Energetics of swimming (human)
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
R01HL-15808-06 Role of angiotensinogen in hypertension and stroke (human, rabbits)
P01HL-15832-06 0004 Chemical-structural predispositions to lung injury Proteolytic activity leucocytes in patients with obstructive lung disease
P01HL-16118-06 0003 Study of emphysema Degradation of collagen and elastin (human, hamsters, mice)
R01HL-16588-05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
P60HL-17292-04 0003 Vermont Lung Center Subclinical pulmonary disease in a rural environment (human)
R01HL-17408-03 Fresh blood rheology Relation to cardiovascular risk (human)
** P01HL-17419-04 0003 Studies on mechanisms of hemostasis - Characterization of fibrinogen (human)
R01HL-17732-03 Peripheral venomotor control in thermal stress (human)
R01HL-18692-03 Glycosaminoglycans and lipoproteins of human plasma
R01HL-18805-04 0007 Sudden cardiac death and the onset of myocardial infarction - Analysis of pathologic factors involved in sudden death (human)
R01HL-19869-03 Antecedents of adolescent hypertension (human)
R01HL-19870-03 Hypertensive progeny-Physical and humoral precursor search
R01HL-19898-03 Desferrioxamine therapy in thalassemia (dogs, rats, children)
R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
R01HL-20179-02 Epidemiology of sudden cardiac death among women
R01HL-20381-03 Long-term study of diabetic vascular disease (human)
R01HL-20471-03 Atherosclerosis and diabetes mellitus (human)
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
R01HL-21352-02 Community studies of obstructive lung disease (human)
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
R01HL-22809-01 Coronary-prone behavior and cardiovascular reactivity (human)
R01HL-23600-01 Ions, water, and hypertension (human, dogs, rats)
R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)
N01HR-32900-09 Pilot study to standardize the measurement of 'closing volume' (human)
N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)
N01HR-62910-02 Fibroprotein networks of pulmonary alveolar wall (human)
N01HV-22931-14 Therapy for hypertension in general population
N01HV-22937-07 Therapy for hypertension in general population
N01HV-22938-11 Therapy for hypertension in general population

AGE (HUMAN), ADULT

SEE ALSO AGING
P01HL-11310-12 0057 Mechanisms of cardiovascular disease - Blood pressure reduction after heart surgery in adults (human)
** P01HL-11310-12 0082 Mechanisms of cardiovascular disease - Myocardial function in adult congenital heart disease (human)
** P01HL-11310-12 0083 Mechanisms of cardiovascular disease - Ventricular volume and hemodynamics in adult congenital heart disease
P60HL-15158-07 0011 Comprehensive sickle cell center - Clinical services--Adult patients
P60HL-15162-07 0001 Comprehensive sickle cell center - Core program--Patient care
P60HL-15996-06 0008 Cincinnati comprehensive sickle cell center - Patient care (children, adults)
P60HL-16008-06 0001 Wayne State University comprehensive sickle cell center - Patient care system (children, adults)
P01HL-17419-04 0003 Studies on mechanisms of hemostasis - Characterization of fibrinogen (human)
R01HL-17580-04 The impact of stress on coronary heart disease (men)
R01HL-18144-03 Preprocessor system for cardiograms (human)
R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)
R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)
R01HL-22296-01 Autonomic mechanisms in men
R01HL-22514-01 Behavior patterns, stress, and catecholamines
N01HV-72917-00 Plasma lipoproteins in identical twins

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

AGE (HUMAN), ADULT, MIDDLE AGE (45 TO 64 YRS)

P01HL-08974-14 0005 Natural and experimental atherosclerosis - Atherosclerosis, coronary heart disease and sudden death (human)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
R01HL-18738-02 Prevention of postoperative venous thrombi (human, cattle)
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-20645-01 Etiology of myocardial infaction (human)
N01HV-22971-07 Prevention of coronary heart disease (human)
N01HV-22977-08 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22979-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22981-10 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)

AGE (HUMAN), ADULT, OLD AGE (65 TO 99 YRS)

P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)

AGE (HUMAN), ADULT, YOUNG (21 TO 44 YRS)

R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-19858-03 UMMC--Blood pressure precursors and consequences (human)
** R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
** R01HL-19962-03 High blood pressure in young people in Tecumseh
R01HL-22740-01 Behavior and cardiovascular disease--Basic mechanisms (human)

AGE (HUMAN), CHILDREN

SEE CHILDREN

AGE PIGMENT

SEE LIPOFUSCIN-CEROID

AGGLUTININS

SEE IMMUNOLOGY, ANTIBODIES, AGGLUTININS

AGGLUTININS, PLANT

SEE PLANTS PROTEINS, LECTINS

AGGREGATES (CHEMISTRY)

SEE CHEMICAL AGGREGATES

AGGREGATION, CELLULAR

SEE CELL-CELL INTERACTION, CELL AGGREGATION

AGGRESSION

SEE PSYCHOLOGY, BEHAVIOR, AGGRESSION

AGGRESSIVE OUTREACH

SEE HEALTH CARE SERVICES, CASE FINDING AND OUTREACH

AGING

R01HL-01979-22 Arteriosclerosis in zoo animals on controlled diets (animals)
P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
** R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
P01HL-07896-15 0055 Environmental biomedical research program - Cerebral blood flow by Xenon-133 inhalation (human)
P01HL-08899-14 0044 Tolerance to respiratory gases in health and disease - Influence of high oxygen pressures on cognition and performance
** P01HL-08899-14 0046 Tolerance to respiratory gases in health and disease - Studies in senile elderly individuals
R01HL-10009-13 Regional lung function in man
** R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
P01HL-13262-07 0016 Arterial wall in atherosclerosis - Lipids in elastin preparations from atherosclerotic plaques (human, animals)
R01HL-13626-06 Lipoprotein lipase and lipoprotein removal (human, rats, bacteria)
P50HL-14153-07 0010 Johns Hopkins Lung Center--Chronic diseases of airways - Risk factors for airways obstruction in a rural community (human)
R01HL-14495-05 Solid and structural mechanics of lungs (mammals)
P01HL-14580-07 0002 Program project in respiratory mechanics - Airway aerodynamics (human, dogs)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
** R01HL-16330-06 Aging-tissue injury and repair (rats)
R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
R01HL-17576-04 Role of sphingomyelin in biomembranes and bilayers (rats, other mammals)
R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
** R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
** R01HL-18284-04 Aging erythrocytes--Bio-recognition and elimination (monkeys)
** R01HL-18610-03 Early intervention of age related arterial changes (pigeon)
** R01HL-18629-04 Influence of aging and hypertension on the myocardium (rats)
P01HL-19242-02 0001 Study of vascular smooth muscle - Energy metabolism and protein turnover in vascular smooth muscle (rats)
P01HL-19717-02 0018 Response of the lung to injury - Lung mechanics and connective tissue composition in human emphysema
R01HL-19864-03 0001 Blood pressure of children and young adults - Follow up of students from Dormont, Pennsylvania
R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)
** R01HL-20373-02 Cardiovascular aging in young men and women
R01HL-20546-02 Chemical analysis of human arterial elastin
R01HL-20564-02 Pathogenesis of peripheral arterial disease (rats, rabbits)
R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood flow in hypertension (rats)
R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
** R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
R01HL-21592-01 Lipoproteins and coagulation factors in atherosclerosis (pigeons)
R01HL-22040-01 Regulation of lysyl-cross-linking in vascular tissue (rats, turkeys)
** R01HL-22313-01 Lung elastic recoil--Age and disease (human)
** R01HL-22671-01 Removal of senescent and stored human red cells
R01HL-22729-01 Intracellular degradation of newly synthesized collagen (human, chick, rabbit)
R01HL-22750-01 Digoxin in heart failure with sinus rhythm (human)
R01HL-22854-01 Non-invasive blood pressure measurement (rats)
R01HL-22883-01 Lung epithelial cell interactions in vitro
R01HL-23994-01 Biochemical properties of human cardiac myosin

AGING, LONGEVITY

P01HL-06835-17 0024 Cardiovascular disease - Studies on the obese spontaneously hypertensive rat

AGLYCONES OF STEROIDS GLYCOSIDES

SEE STEROIDS GLYCOSIDES AGLYCONES

AGONISTIC BEHAVIOR

SEE PSYCHOLOGY, BEHAVIOR, AGGRESSION

AGRANULOCYTOSIS

SEE BLOOD AND RE DISORDERS, LEUKOCYTE DISORDERS, AGRANULOCYTOSIS

AGRICULTURAL WORKERS

SEE OCCUPATIONS, AGRICULTURAL WORKERS

A-H HYPERTENSION

SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), NEUROGENIC HYPERTENSION

AIDS, HEALTH PERSONNEL

SEE HEALTH SCIENCES PROFESSIONS, HEALTH (CARE) PERSONNEL ALLIED

AIDS, PSYCHIATRIC

SEE MENTAL HEALTH PERSONNEL ADJUNCT

AIR

SEE ENVIRONMENT, ATMOSPHERE (WEATHER)

AIR CONDITIONING, HEATING, VENTILATION

SEE ENVIRONMENT CONTROLLED

AIR EMBOLISM

SEE CARDIOVASCULAR DISORDERS, EMBOLISM, AIR

AIR FLOWMETERS RESPIRATORY

SEE RESPIRATORY DISORDERS DIAGNOSIS, RESPIRATORY AIRFLOW MEASUREMENTS*

AIR MONITORING

SEE AIR SAMPLING-MONITORING

AIR POLLUTION

SEE ALSO HYPERSENSITIVITY, ALLERGENS AIRBORNE
SEE ALSO PHYSICAL AND/OR CHEMICAL AGENTS INTERACTION (BIOLOGICAL AND ECOLOGICAL), POLLUTANTS INTERACTION
SEE ALSO PHYSICAL PROPERTIES, PARTICLES, DUST
SEE ALSO RESPIRATORY DISORDERS, RESPIRATORY SYSTEM TOXINS

P50HL-14136-07 0016 Pulmonary SCOR--Airways obstructive diseases - Environmental factors in airways obstructive diseases (human)
P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
P50HL-15092-07 0010 Immune and fibrotic response to occupational environments - Characterization of toluene diisocyanate in industrial environments
** R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
** R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)
R01HL-17921-04 Peroxy radicals to prostaglandins in vessels and lung
R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)
R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)
** R01HL-21008-02 Effect of pollutants on organotypic lung cultures (rats)
** R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)
** R01HL-21352-02 Community studies of obstructive lung disease (human)

AIR POLLUTION CONTROL

** P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)

AIR SAMPLING-MONITORING

** P50HL-15092-07 0001 Immune and fibrotic response to occupational environments - X-ray diffraction study--Dust exposure in asbestos cement products manufacturing
P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
** P50HL-15092-07 0010 Immune and fibrotic response to occupational environments - Characterization of toluene diisocyanate in industrial environments
P50HL-15092-07 0011 Immune and fibrotic response to occupational environments - Respiratory and immunologic responses in coffee plant workers
P50HL-15092-07 0012 Immune and fibrotic response to occupational environments - Longitudinal evaluation of workers exposed to cotton dust

AIRBORNE ALLERGENS

SEE HYPERSENSITIVITY, ALLERGENS AIRBORNE

AIRCRAFT FLIGHT

SEE ENVIRONMENT, EXTRATERRESTRIAL, SUPRATERRESTRIAL

AJMALINE

SEE ALKALOIDS, RAUWOLFIA TYPE, AJMALINE

ALANINE

SEE AMINO ACIDS, ALANINE

L-ALANINE:2-OXOGLUTARATE AMINOTRANSFERASE

SEE AMINOTRANSFERASES, ALANINE TRANSAMINASE

ALANINE TRANSAMINASE

SEE AMINOTRANSFERASES, ALANINE TRANSAMINASE

ALBUMINOIDS

M P01HL-13262-07 Arterial wall in atherosclerosis
R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
** R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)

ALBUMINOIDS, COLLAGEN

SEE ALSO ALBUMINOIDS, GELATIN

** R01HL-01803-23 0016 Arteriosclerosis, glomerulonephritis, rheumatic fever - Synthesis of basement membrane collagen by endothelial cells (human)
R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel disease--Cell and matrix response (human, mice)
P01HL-03174-23 0012 Mechanisms of acute vascular reaction to injury - Human atherosclerotic plaque in organ culture

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subpr[illegible] describing specific research aspects.
See Appendix for [illegible] me and grant number

** P01HL 06835 17 0062 Cardiovascular disease Role of collagen in atherosclerosis (dogs, pigeons)
R01HL 09914 13 The myocardium in diabetes mellitus (dogs, monkeys)
R01HL 10018 11 Effect of aging on beating heart cells in culture (rats)
R01HL 11152 12 Vascular physiology (human, cats, dogs)
** P01HL 11310 12 0106 Mechanisms of cardiovascular disease Biochemical characterization of the collagens in vascular tissue (cattle)
R01HL 11614 11 Trace elements in nutrition (chickens, rats, human)
** R01HL 12561 11 Cardiovascular studies on copper deficiency (swine)
** P01HL 13262 07 0012 Arterial wall in atherosclerosis Characterization of connective tissue components (animals)
** P01HL 13262 07 0015 Arterial wall in atherosclerosis Crosslinkage biosynthesis in aortic elastin and collagen (animals)
P01HL 13262 07 0025 Arterial wall in atherosclerosis Phospholipid and cholesterol esters
** R01HL 14126 17 Effect of function on grafts and implants of collagen (dogs monkeys)
** P50HL 14164 07 0036 A/S SCOR Comparative and experimental atherosclerosis Connective tissue metabolism Interaction with arterial metabolism (monkeys)
** P50HL 14212 07 0004 Correlated studies of pulmonary fibrosis Collagen metabolism in lung tissue and lung cells (human, animal)
P50HL 14212 07 0016 Correlated studies of pulmonary fibrosis Role of pulmonary alveolar macrophages in fibrosis (human, rabbit)
R01HL 14344 07 Platelet function and adenine nucleotide metabolism (human)
R01HL 14697 07 Role of platelet membranes in hemostasis (human)
R01HL 15013 07 Lung oxidative metabolism and energy production (rodents, rabbits)
** P50HL 15061 07 0004 Response of lung to injury Biochemical abnormalities in connective tissues (rats)
P50HL 15062 07 0020 Study of lipoproteins, artery wall, and atherosclerosis Artery wall reactions Elevated pressure and hyperlipemia (monkey)
P50HL 15103 07 0014 A/S SCOR--Early natural history of arteriosclerosis Biochemistry of atherosclerotic lesions (monkeys, human, cattle)
** R01HL 15335 06 The nature of the collagen-platelet interaction (animals)
R01HL 15448 06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
** R01HL 15478 05 Lipid flux and collagen synthesis in atherosclerosis (rabbits)
M P01HL 15832 06 Chemical-structural predispositions to lung injury
** P01HL 15832 06 0001 Chemical-structural predispositions to lung injury Chemical composition of lung connective tissue proteins (human, animals)
P01HL 15832 06 0002 Chemical-structural predispositions to lung injury Connective tissue in lung in development and repair of injury (human, rats, mice)
P01HL 15832 06 0008 Chemical-structural predispositions to lung injury Interstitial fibrosis--Connective tissue components in normal and diseased lungs
M P01HL 16118 06 Study of emphysema
** P01HL 16118 06 0003 Study of emphysema Degradation of collagen and elastin (human, hamsters, mice)
** P01HL 16118 06 0004 Study of emphysema Metabolic activity of pulmonary connective tissue (human, hamsters)
P01HL 16118 06 0006 Study of emphysema Metabolism of elastin (hamsters)
R01HL 16206 04 Regression of atherosclerotic plaques (monkeys, dogs)
** R01HL 16355 05 Reactions of thrombin and collagen with platelets (human)
R01HL 16437 05 Drug treatment of atherosclerosis (rabbits, monkeys)
** R01HL 16588 05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
R01HL 16768 04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
** R01HL 16904 03 Regulation of smooth muscle cells in arteriosclerosis (rabbit aorta)
R01HL 17402 04 Mechanism of contact activation of intrinsic clotting (human)
P01HL 17430 05 0007 Control of coagulation Platelet adhesion, aggregation, ultrastructure in flowing blood (human, animals)
** R01HL 17525 03 Molecular basis of collagen-platelet interaction (human, rat)
R01HL 17597 05 Role of plasma lipoproteins in atherosclerosis (swine, human)
** R01HL 17721 04 Effect of sex hormones on vascular connective tissue (rats)
R01HL 17865 04 Studies on aging--Effects of sex hormones (rats, dogs)
R01HL 17909 04 Drug treatment of vascular scleroprotein defects (human, turkeys)
P50HL 18318 03 0014 Pathogenesis and complications of hypertension Arterial metabolism and atherogenesis (rat, rabbit)
P50HL 18318 03 0015 Pathogenesis and complications of hypertension Cultured smooth muscle cells and microvessel metabolism (mammals)
P01HL 18576 03 0001 Thrombosis research program project Platelet damage from physical forces and artificial surfaces (human)
** P01HL 18576 03 0004 Thrombosis research program project Mechanism and control of collagen platelet interaction
** R01HL 18593 03 Characterization of heart valve collagen (human, pig)
P01HL 18645 03 0001 Biology of the artery wall and atherosclerosis Primate arterial smooth muscle and atherosclerosis
P01HL 18645 03 0003 Biology of the artery wall and atherosclerosis Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
** R01HL 18650 03 Platelet collagen interaction (human)
R01HL 18714 04 Cardiovascular matrix Morphogenesis and maturation (human, chick embryo, mammal)
P01HL 18827 02 0001 Platelet vessel wall interactions in thrombogenesis Role of endothelial cells in the production of thrombi (human, cattle)
** P01HL 18827 02 0002 Platelet vessel wall interactions in thrombogenesis Interactions of vessel wall macromolecules with factor XII (human, rats)
P50HL 18828 03 0002 Specialized center of research in thrombosis Endothelial cell biology (human, guinea pig)
P50HL 18828 03 0004 Specialized center of research in thrombosis Membrane changes in platelet physiology Role of complement (mice, human)
** R01HL 19252 02 Vascular connective tissue Role in atherosclerosis (rabbits)
R01HL 19425 03 Cardiac function in hypertrophy (dog)
R01HL 19537 03 Detection of myocardial injury with ultrasound (dogs)
** R01HL 19668 03 Biochemistry of lung connective tissue (rats)
P01HL 19717 02 0001 Response of the lung to injury Lung elastic tissue (animals)
** P01HL 19717 02 0002 Response of the lung to injury Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)
P01HL 19717 02 0004 Response of the lung to injury Regulatory and physical-chemical properties of lung lysyl oxidase (animals)
P01HL 19717 02 0007 Response of the lung to injury Cellular level studies of prostaglandin-like molecules (cattle)
P01HL 19717 02 0008 Response of the lung to injury Experimental models of lung disease
P01HL 19717 02 0028 Response of the lung to injury Compensatory growth of the lung following pneumonectomy (rabbits)
** R01HL 19731 03 Collagen in interstitial fibrosis of lung (human)
R01HL 20104 03 Pulmonary granulomatous inflammations (mice)
** R01HL 20114 02 Collagen-platelet interaction and human aorta collagen (human)
R01HL 20426 03 Myocardial function in diabetes mellitus (dog, rat)
R01HL 20447 03 Connective tissue and diabetic vascular disease (human)
R01HL 20635 03 Factors in lung development (rat and chick embryo)
R01HL 21095 02 Enzymes of M tuberculosis and obstructive lung disease (human, rodents)
P23HL 21134 02 Immune function and fibrogenesis in silicosis (guinea pigs)
R23HL 21225 02 Connective tissue precursor molecules in the lung (rabbits, hamsters)
** R01HL 21303 02 Collagen synthesis by cultured human vascular cells
R01HL 21498 02 Pathophysiology of edema (rats, cats)
** R23HL 21504 02 Collagen synthesis in pulmonary fibrosis cells (human)
R01HL 21617 02 Biochemistry of lung proteoglycans (rabbits, cattle)
R01HL 21622 02 Structure and interactions of lung proteoglycans (cattle)
R01HL 21626 01 Proteoglycans of animal lung parenchyma (cattle, pigs, rabbits)
R01HL 21641 02 Structural studies of lung proteoglycans (pigs, cattle, rabbits)
R01HL 21644 01 Fibronectin and related glycoproteins (human, rodents)
R01HL 21646 02 Biosynthesis of fractionated proteoglycans of lung (rabbits)
R01HL 21649 01 Biochemistry of lung proteoglycans (mammals)
** R23HL 21663 01 Regulation of collagen biosynthesis (chick, embryo)
** R01HL 21665 01 Collagen polymorphism and arterial structure (monkeys, guinea pigs)
** R01HL 21988 01 Biochemistry of human platelet chemotaxis
** R01HL 22081 20 The mechanism of collagen formation (human, cattle)
R01HL 22623 01 Polyamines cellular mediators of atherogenesis (human)
** R01HL 22729 01 Intracellular degradation of newly synthesized collagen (human, chick, rabbit)
R01HL 22739 01 Evolution and progression of pediatric atherosclerosis
R23HL 22745 01 Vascular mechanics and structure in hypertension (miniature swine)
R01HL 23547 01 Pulmonary vascular smooth muscle cell dynamics (rat rabbit)
N01HR 62910 02 Fibroprotein networks of pulmonary alveolar wall (human)
N01HV 42969 06 Interactions of natural and chemically modified biopolymers with blood (dogs)
** N01HV 42984 05 Interactions of modified biopolymers with blood (humans, rats)
** N01HV 52907 04 Interactions of platelets with collagens (human, mammals)

ALBUMINOIDS, COLLAGEN, PROCOLLAGEN

** R01HL 17551 04 Biosynthesis and metabolism of procollagen (human, monkeys, mice)
** P01HL 18827 02 0002 Platelet vessel wall interactions in thrombogenesis Interactions of vessel wall macromolecules with factor XII (human, rats)
P01HL 19717 02 0001 Response of the lung to injury Lung elastic tissue (animals)
P01HL 19717 02 0002 Response of the lung to injury Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)
R01HL 21303 02 Collagen synthesis by cultured human vascular cells
R01HL 21665 01 Collagen polymorphism and arterial structure (monkeys, guinea pigs)

ALBUMINOIDS, COLLAGEN, TROPOCOLLAGEN

R01HL 17551 04 Biosynthesis and metabolism of procollagen (human, monkeys, mice)
** R23HL 19594 01 Tropocollagen and tropoelastin uptake in lung cells (human)
P01HL 19717 02 0004 Response of the lung to injury Regulatory and physical-chemical properties of lung lysyl oxidase (animals)
R01HL 21622 02 Structure and interactions of lung proteoglycans (cattle)

ALBUMINOIDS, ELASTIN

R01HL 02942 22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
R01HL 11614 11 Trace elements in nutrition (chickens, rats, human)
** R01HL 11963 10 Biochemistry of blood vessel formation and disease (swine)
** R01HL 12561 11 Cardiovascular studies on copper deficiency (swine)
** P01HL 13262 07 0012 Arterial wall in atherosclerosis Characterization of connective tissue components (animals)
** P01HL 13262 07 0015 Arterial wall in atherosclerosis Crosslinkage biosynthesis in aortic elastin and collagen (animals)
** P01HL 13262 07 0016 Arterial wall in atherosclerosis Lipids in elastin preparations from atherosclerotic plaques (human, animals)
** P01HL 13262 07 0023 Arterial wall in atherosclerosis Isolation and characterization of soluble elastin
P01HL 13262 07 0025 Arterial wall in atherosclerosis Phospholipid and cholesterol esters
** P50HL 14218 07 0006 Pulmonary SCOR Newborn lung center Biochemical characteristics of the lung in RDS (human, sheep)
P50HL 15103 07 0014 A/S SCOR--Early natural history of arteriosclerosis Biochemistry of atherosclerotic lesions (monkeys, human, cattle)
M P01HL 15832 06 Chemical-structural predispositions to lung injury
** P01HL 15832 06 0001 Chemical-structural predispositions to lung injury Chemical composition of lung connective tissue proteins (human, animals)
P01HL 15832 06 0002 Chemical-structural predispositions to lung injury Connective tissue in lung in development and repair of injury (human, rats, mice)
P01HL 15832 06 0008 Chemical-structural predispositions to lung injury Interstitial fibrosis--Connective tissue components in normal and diseased lungs
** P01HL 15832 06 0009 Chemical-structural predispositions to lung injury Immunology Enzyme degradation products of human lung elastin and microfibril
** R01HL 15965 06 Experimental atherosclerosis and elastin metabolism (chicks)
M P01HL 16118 06 Study of emphysema
** P01HL 16118 06 0003 Study of emphysema Degradation of collagen and elastin (human, hamsters, mice)
** P01HL 16118 06 0006 Study of emphysema Metabolism of elastin (hamsters)
R01HL 16206 04 Regression of atherosclerotic plaques (monkeys, dogs)
R01HL 17597 05 Role of plasma lipoproteins in atherosclerosis (swine, human)
** R01HL 17721 04 Effect of sex hormones on vascular connective tissue (rats)
R01HL 17865 04 Studies on aging--Effects of sex hormones (rats, dogs)
P50HL 18318 03 0014 Pathogenesis and complications of hypertension Arterial metabolism and atherogenesis (rat, rabbit)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level
**Oriented significantly to above subject

M Grant has subprojects describing specific research aspects
See Appendix for investigator's name and grant number

P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
** R01HL-18441-03 Guidelines for polymers acting as elastin substitutes
** R01HL-18625-03 Organization of arterial ground substance (cattle)
P01HL-18645-03 0003 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
** R01HL-18918-03 Characterization of lung elastins (rat, rabbit, chicken, Rhesus)
R01HL-18931-02 Lung elastic tissue characteristics (swine, human)
** R01HL-19252-02 Vascular connective tissue--Role in atherosclerosis (rabbits)
** R23HL-19594-01 Tropocollagen and tropoelastin uptake in lung cells (human)
** P01HL-19717-02 0001 Response of the lung to injury - Lung elastic tissue (animals)
P01HL-19717-02 0002 Response of the lung to injury - Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)
P01HL-19717-02 0003 Response of the lung to injury - The role of elastolysis in emphysema (hamsters, rabbits)
P01HL-19717-02 0008 Response of the lung to injury - Experimental models of lung disease
P01HL-19717-02 0012 Response of the lung to injury - Connective tissue biochemistry and enzyme injury of the lung (hamsters)
** P01HL-19717-02 0024 Response of the lung to injury - Formation of lung alveoli (rats)
P01HL-19717-02 0028 Response of the lung to injury - Compensatory growth of the lung following pneumonectomy (rabbits)
R01HL-20447-03 Connective tissue and diabetic vascular disease (human)
** R01HL-20546-02 Chemical analysis of human arterial elastin
** R01HL-20764-02 Elastin and calcification in pulmonary and vascular disease (human, mammals)
** P01HL-20994-02 0009 Dynamics of neutrophil elastase in the lung - Biosynthesis and degradation of elastin in emphysema (human, hamsters)
R01HL-21095-02 Enzymes of M tuberculosis and obstructive lung disease (human, rodents)
R23HL-21225-02 Connective tissue precursor molecules in the lung (rabbits, hamsters)
R01HL-21617-02 Biochemistry of lung proteoglycans (rabbits, cattle)
R01HL-21622-02 Structure and interactions of lung proteoglycans (cattle)
R01HL-21649-01 Biochemistry of lung proteoglycans (mammals)
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
** R01HL-21757-01 Elastin structure--DNA breathing--Hemoglobin S gelation
R01HL-21994-01 Structure and development of regenerating capillaries (rabbits, chick embryo)
** R01HL-22040-01 Regulation of lysyl-cross-linking in vascular tissue (rats, turkeys)
** R01HL-22208-02 Elastin structure, fibrogenesis and disease (chickens, rabbits)
R23HL-22745-01 Vascular mechanics and structure in hypertension (miniature swine)
R01HL-23201-01 Mechanisms of hypertension (human, rats)
R01HL-23542-01 Pulmonary vascular smooth muscle cell dynamics (rat, rabbit)
N01HR-62910-02 Fibroprotein networks of pulmonary alveolar wall (human)

ALBUMINOIDS, GELATIN
R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)

ALBUMINOIDS, KERATOHYALIN
P01HL-06314-17 0048 Immunologic mechanisms in cardiovascular disease - Pathogenesis of glomerulonephritis (rats, mice)

ALBUMINS
P01HL-06285-18 0203 Cardiovascular-respiratory physiology and biochemistry - Pathways of lipid transport in the blood (animals)
P01HL-09011-15 0015 A research and resource program in blood - Regulation of synthesis and transport of diverse proteins in liver (rats)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
R01HL-13596-07 Clearance of plasma proteins from alveoli
P01HL-13738-08 0004 Cardiac assist devices and artificial hearts - Hematological evaluation of prosthetic materials (calves)
P01HL-13738-08 0005 Cardiac assist devices and artificial hearts - Development of new materials for artificial heart and assist devices (sheep, dog)
P01HL-15596-05 0017 Coagulation, fibrinolysis, hemostasis and hepatitis - Heparin and antithrombin III
P01HL-16748-05 0006 Cellular and immunological basis of pulmonary diseases - Sarcoidosis--Studies with bronchial lavage (human)
M R01HL-16916-04 The role of albumins in lung water accumulation
R01HL-16916-04 0001 The role of albumins in lung water accumulation - Capillary permeability (dogs, human)
** R01HL-16916-04 0002 The role of albumins in lung water accumulation - Lung water balance--Forces, models and albumin concentrations (rabbits, dogs)
** R01HL-16916-04 0011 The role of albumins in lung water accumulation - Whole body distribution and exchange of albumin (rabbits, human, monkeys)
R01HL-17781-03 Hypertension, kidney disease and renal lymph (dogs, rats)
R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)
** R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
R01HL-18736-03 Protein transport through arterial tissue (rabbits)
R01HL-18762-03 Post-traumatic pulmonary insufficiency (dogs)
** P50HL-19185-02 0007 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sodium bicarbonate and albumin in resuscitation of preterm infants (human)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R01HL-20251-02 A novel approach to nonthrombogenic polymer surfaces (sheep, cattle)
R01HL-21452-02 Pulmonary capillary filtration in myocardial ishemia (dogs)
P01HL-22163-01 0001 Surface thrombogenesis--Mechanisms and prevention - Initial blood protein and platelet interactions with biomaterials (baboons)
** R01HL-22911-01 Mechanism of clearance of lung edema fluid (dogs)
R01HL-22924-01 The airway mucosal barrier (guinea pigs)
R01HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)

ALBUMINS, CONALBUMIN
R01HL-18619-03 Transferrin iron binding and transport properties (chicken, rabbit, human)

ALBUMINS, SERUM ALBUMIN
** R01HL-02751-21 Function and metabolism of serum albumin (mammals, fish, amphibians)
** P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
P60HL-15160-07 0008 Center for sickle cell disease - Isocyanate derivatives and hemoglobin S association (human, rat)
R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
R01HL-16419-03 Arterial uptake of lipoprotein--Kinetic analysis (rabbits)
P60HL-17265-04 0001 Community blood resource center support - Demonstration and evaluation
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
P01HL-18576-03 0001 Thrombosis research program project - Platelet damage from physical forces and artificial surfaces (human)
R01HL-18619-03 Transferrin iron binding and transport properties (chicken, rabbit, human)
R01HL-18731-02 RES stimulating materials in experimental shock (dogs)
** R01HL-18887-03 Hypolipidemic drugs--Effects on FFA-albumin association (human, cattle)
** R01HL-20313-02 Surface-induced thrombosis--Modification of albumin variants (human, goat)

ALBUMINS, SERUM ALBUMIN BOVINE
P50HL-19185-02 0007 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sodium bicarbonate and albumin in resuscitation of preterm infants (human)

ALCOHOL CONSUMPTION
SEE ALCOHOLISM - DRINKING, ALCOHOL CONSUMPTION

ALCOHOL RESEARCH REVIEW COMMITTEE
** R01HL-20369-03 The effect of alcohol on the heart (rats)

ALCOHOLISM
SEE ALCOHOLISM - DRINKING, ALCOHOLISM

ALCOHOLISM - DRINKING, ALCOHOL CONSUMPTION
R01HL-15308-07 Assays for peptides of lipoproteins (human)
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
R01HL-20179-02 Epidemiology of sudden cardiac death among women
R01HL-21971-01 Atherosclerotic disease and risk factors in twins (human)
R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)
N01HV-62955-04 Data collection in clinical pathology and morbid anatomy (men)

ALCOHOLISM - DRINKING, ALCOHOLISM
P01HL-08214-15 0006 Chemical and biological properties of lipids - Analysis and properties of lipids
** R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
** R01HL-20369-03 The effect of alcohol on the heart (rats)
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

ALCOHOLS
SEE ALSO BILE ALCOHOLS
R01HL-13989-05 Role of water in respiratory protein structure

ALCOHOLS, BUTANOL
R01HL-13567-06 Ion transport across cell membranes (human)

ALCOHOLS, DIOLS
P01HL-08214-15 0006 Chemical and biological properties of lipids - Analysis and properties of lipids
P01HL-08214-15 0025 Chemical and biological properties of lipids - Biosynthesis and biological functions of plasmalogen (cattle)
** P01HL-08214-15 0027 Chemical and biological properties of lipids - Biological functions diol lipids (swine, rats, plants)
P01HL-08214-15 0040 Chemical and biological properties of lipids - Nuclear magnetic resonance studies of lipids

ALCOHOLS, DIOLS, ETHYLENE GLYCOL
R01HL-20219-02 Cryopreservation of the isolated heart (rats)

ALCOHOLS, DIOLS, PROPYLENE GLYCOL
R01HL-19722-03 Aerosol growth in the respiratory system (models)

ALCOHOLS, ENOLS
R01HL-22612-01 Stabilized prostacyclins to treat vascular disease

ALCOHOLS, ETHANOL
** P01HL-08899-14 0027 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on ethanol metabolism (human)
P01HL-08899-14 0061 Tolerance to respiratory gases in health and disease - Hepatic oxygenation and secretory functions (rats, dogs)
R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
P01HL-10539-12 0068 Pathophysiology of circulation - Acute and chronic cardiomyopathies (mice, dogs, hamsters, human)
P01HL-11310-12 0092 Mechanisms of cardiovascular disease - Exercise electrophysiology (human)
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
R01HL-14706-07 Fetal hearts in organ culture (mice)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
R01HL-17571-03 Study of membrane permeability by NMR relaxation (human)
R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)
R01HL-20369-03 The effect of alcohol on the heart (rats)

ALCOHOLS, METHANOL
R01HL-19491-03 Mechanism of iron storage and mobilization by ferritin (horse)

ALCOHOLS, PROPANOLS
SEE ALSO NAPHTHYLAMINES, PROPRANOLOL
P01HL-06835-17 0057 Cardiovascular disease - Studies on cardiac hypertrophy

ALDEHYDE LYASES
SEE ALDOLASES

ALDEHYDES
SEE ALSO DICARBOXYLIC ALDEHYDES, MALONALDEHYDE
R01HL-18245-03 Transition state analog inhibitors of thrombin (human, cattle)
R01HL-23115-01 Regulation of active sodium transport (frogs, rats)

ALDEHYDES, ACETALDEHYDE
** R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
R01HL-18554-03 Taurine metabolism in mammalian heart (rodents, cattle, swine)
R01HL-20369-03 The effect of alcohol on the heart (rats)

ALDEHYDES, FORMALDEHYDE
P50HL-14230-07 0097 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

ALDOLASES
R01HL-17976-18 Chemical agents and heart glycolytic enzymes (sheep)

ALDOSTERONE
SEE ADRENAL CORTEX HORMONES, ALDOSTERONE

ALDOSTERONE INHIBITORS
SEE ADRENAL CORTEX HORMONES, ALDOSTERONE INHIBITORS

ALDOSTERONE STIMULATING FACTOR ANT PIT
SEE PITUITARY-DIENCEPHALON HORMONES, ACTH

ALDOSTERONE STIMULATING FACTORS
SEE ADRENAL CORTEX HORMONES, ALDOSTERONE STIMULATING FACTORS

ALDOSTERONISM
SEE ADRENAL GLANDS DISORDERS, HYPERALDOSTERONISM

ALERTNESS-VIGILANCE
SEE PSYCHIC ACTIVITY LEVEL, ATTENTION

ALEXIN
SEE IMMUNOLOGY, COMPLEMENT

ALFALFA
SEE PLANTS, ANGIOSPERMS, LEGUMES, ALFALFA*

ALIESTERASE
SEE CARBOXYLIC ESTER HYDROLASES, CARBOXYLESTERASE

ALIMENTARY TRACT
SEE GASTROINTESTINAL SYSTEM (GENERAL)

ALKALI METALS
SEE METALS, ALKALI METALS

ALKALIES
SEE ACIDS-BASES, ALKALIES

ALKALINE EARTH METALS
SEE METALS, ALKALINE EARTH METALS

ALKALINE PHOSPHATASE
SEE PHOSPHOMONOESTERASES, ALKALINE PHOSPHATASE

ALKALOIDS
SEE ALSO PLANTS EXTRACTS, MEDICINAL PLANTS
SEE ALSO PURINES, XANTHINES, CAFFEINE
SEE ALSO PURINES, XANTHINES, THEOPHYLLINE
SEE ALSO PYRIDINAMIDES, NICOTINAMIDE
SEE ALSO PYRIDINE CARBOXYLIC ACIDS, NICOTINIC ACID
SEE ALSO QUINOLINES
SEE ALSO QUINUCLIDINES
SEE ALSO TOXICOLOGY, ANIMAL POISONS, BATRACHOTOXIN
SEE ALSO TOXICOLOGY, ANIMAL POISONS, TETRODOTOXIN
SEE ALSO TOXICOLOGY, PROTOZOAL TOXINS, SAXITOXIN
** R01HL-07502-13 Phytochemistry of the genus thalictrum (dogs, plants)
** R01HL-12971-15 Reactions of alkoloids and their analogs
** R01HL-16471-05 Cardioactive alloyohimbines and related indole alkaloids
** R01HL-20579-02 Synthesis of therapeutically important alkaloids
R01HL-22783-01 Hemodynamic induction of intimal fibromuscular lesion

ALKALOIDS, ACONINE TYPE
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)

ALKALOIDS, BERBINES
R01HL-12971-15 Reactions of alkoloids and their analogs

ALKALOIDS, CANNABIS
P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)

ALKALOIDS, COLCHICINE
SEE ALSO ALKALOIDS, DEMECOLCINE
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
R01HL-13909-27 Physiochemistry and immunology of macromolecules
R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)
R01HL-20643-02 Analysis of heart cell contraction (rats)

ALKALOIDS, DEMECOLCINE
R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)

ALKALOIDS, ERGOT
R01HL-18590-03 Cerebral blood flow after cardiac arrest (dogs, monkeys)
R01HL-20579-02 Synthesis of therapeutically important alkaloids

ALKALOIDS, ERGOT, METHYSERGIDE
R01HL-22005-01 Intermittent retroperfusion of ischemic myocardium (dogs)

ALKALOIDS, MONOCROTALINE
P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo-Capillary membrane in normal pulmonary hypertensive lung
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)

ALKALOIDS, MORPHINES
P01HL-08899-14 0030 Tolerance to respiratory gases in health and disease - Dynamic characteristics of respiratory control components (human, cats)
P01HL-12738-10 0042 Physiologic pharmacology and its clinical applications - Centrogenic cardiac arrhythmias (cats)
R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
R01HL-16022-05 Determinants of the ventilatory response to hypoxia (goats, cats)
P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia-Myocardial ischemia and hemodynamics in coronary disease (human)
** R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
R01HL-20371-02 Intravascular redistribution of blood volume (dogs)

ALKALOIDS, MORPHINES, NALOXONE
R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)

ALKALOIDS, RAUWOLFIA TYPE, AJMALINE
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells

ALKALOIDS, RAUWOLFIA TYPE, RAUWOLFIA
SEE ALSO ALKALOIDS, RAUWOLFIA TYPE, AJMALINE
SEE ALSO ALKALOIDS, RAUWOLFIA TYPE, RESERPINE
SEE ALSO ALKALOIDS, RAUWOLFIA TYPE, YOHIMBINE
R01HL-10711-12 Cooperative study of treatment of hypertension (human)

ALKALOIDS, RAUWOLFIA TYPE, RESERPINE
R01HL-10711-12 Cooperative study of treatment of hypertension (human)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
R01HL-16471-05 Cardioactive alloyohimbines and related indole alkaloids
R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
P01HL-18974-03 0011 Experimental neurogenic hypertension program - Biochemistry and regulation of brain tryptophane hydroxylase (rats)
R23HL-19573-01 Studies on pulmonary serotonin (mice)
R01HL-20579-02 Synthesis of therapeutically important alkaloids
R01HL-22563-02 Prostaglandins, the kidney and hypertension (rats)
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
** N01HV-62900-00 Study of breast cancer and reserpine use (human)

ALKALOIDS, RAUWOLFIA TYPE, YOHIMBINE
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
** R01HL-16471-05 Cardioactive alloyohimbines and related indole alkaloids

ALKALOIDS, RYANIA
R23HL-21325-02 Sarcomere kinematics in cardiac contraction (rats, rabbits)

ALKALOIDS, SENECIO
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)

ALKALOIDS, VINBLASTINE
R01HL-20643-02 Analysis of heart cell contraction (rats)

ALKALOIDS, VINCA
SEE ALSO ALKALOIDS, VINBLASTINE
R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)

ALKALOSIS
SEE BODY FLUID BALANCE, ACID-BASE, ALKALOSIS

ALKANES
P01HL-12157-11 0038 Functions and mechanisms of cell membrane ion transport - Mechanisms and interactions of gases and ions with bilayer membranes (human)

ALKANES, METHANE
R01HL-17702-04 Electro-optical dyes as probes of heart excitability
R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)

ALKENES, ISOPRENOIDS
SEE ALSO PLASTICS, RUBBER
SEE ALSO TERPENES, CAROTENOIDS
SEE ALSO VITAMIN A
SEE ALSO VITAMIN K
R01HL-16101-05 Protein lipid interaction (bacteria models)
R01HL-19011-03 Smooth muscle cell membrane glycoprotein biosynthesis (cattle)

ALKYL (GROUPS)
P01HL-08214-15 0025 Chemical and biological properties of lipids - Biosynthesis and biological functions of plasmalogen (cattle)
P01HL-08214-15 0027 Chemical and biological properties of lipids - Biological functions diol lipids (swine, rats, plants)
P01HL-15195-04 0001 Program project in biological materials - Design and synthesis

ALKYL (GROUPS), ALKYLATION-DEALKYLATION
P01HL-18577-03 0004 Lipoproteins--Cell surface interactions - Analysis and chemical modification of proteins in lipid transport (human, dogs)
R01HL-19654-03 Biochemical-pharmacological evaluation of lung cells (rabbits)
R01HL-22471-01 Biochemistry of prothrombin quick (human)
R01HL-22845-01 Response of cardiac myosin to hypertrophic stress (rabbits)

ALKYL (GROUPS), DEMETHYLATION
R01HL-19654-03 Biochemical-pharmacological evaluation of lung cells (rabbits)

ALKYL (GROUPS), METHYLATION
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
R01HL-12647-08 Inactivation of norepinephrine in vascular tissue
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
P01HL-18577-03 0004 Lipoproteins--Cell surface interactions - Analysis and chemical modification of proteins in lipid transport (human, dogs)

ALKYLATING AGENTS
SEE ALSO HALOALKYLAMINES, NITROGEN MUSTARDS
P01HL-21016-02 0002 Sickle cell anemia and other hemoglobinopathies - Molecular events proceeding gelation of Hb S
P01HL-21016-02 0004 Sickle cell anemia and other hemoglobinopathies - Kinetics of sickling
** P01HL-21016-02 0010 Sickle cell anemia and other hemoglobinopathies - Alkylureas as potential anti-sickling agents
** P01HL-21016-02 0011 Sickle cell anemia and other hemoglobinopathies - Metabolic effects of anti-sickling agents (hamsters)
P01HL-21016-02 0013 Sickle cell anemia and other hemoglobinopathies - Microcirculatory response to sickle cell treated with anti-sickling agents (rats)

ALKYLATION
SEE ALKYL (GROUPS), ALKYLATION-DEALKYLATION

ALKYL NITRILES
SEE CYANIDES, ALKYL NITRILES

ALKYNES
R01HL-20996-02 Structural and reactivity of iron and cobalt complexes

ALLELES
SEE GENETICS, GENES, ALLELES

ALLERGENS
SEE HYPERSENSITIVITY, ALLERGENS

ALLERGENS AIRBORNE
SEE HYPERSENSITIVITY, ALLERGENS AIRBORNE

ALLERGIC ALVEOLITIS
SEE RESPIRATORY DISORDERS, PNEUMONITIS ALLERGIC INTERSTITIAL

ALLERGIC INTERSTITIAL PNEUMONITIS
SEE RESPIRATORY DISORDERS, PNEUMONITIS ALLERGIC INTERSTITIAL

ALLERGY
SEE HYPERSENSITIVITY (GENERAL)

ALLERGY AND IMMUNOLOGY STUDY SECTION
** R01HL-03919-20 The cell surface of streptococci (rats, human)
** R01HL-08399-15 Platelet injury in infections and allergic diseases (human)
** R01HL-10608-12 Digoxin-specific antibodies (human)
** R01HL-18526-03 Kinins and the human lung
** R01HL-20125-02 Cyclic nucleotides and alveolar macrophage activation (rabbits)
** R01HL-20394-03 Complement activation by heart subcellular membranes (human, dog)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

** R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)
** R01HL-21874-01 SRS-A--Its biosynthesis and action
** R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)

ALLIED HEALTH PERSONNEL
SEE HEALTH SCIENCES PROFESSIONS, HEALTH (CARE) PERSONNEL ALLIED

ALLIED HEALTH PERSONNEL EDUCATION
SEE EDUCATION, HEALTH OCCUPATIONS, ALLIED

ALLIUM
SEE PLANTS, ANGIOSPERMS, ALLIUM*

ALLOANTIBODIES
SEE TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOANTIBODIES

ALLOANTIGENS
SEE TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOANTIGENS

ALLOANTISERA
SEE IMMUNITY, IMMUNOSUPPRESSION, ALLOANTISERA

ALLOGENIC INHIBITION, ANTISERA
SEE IMMUNITY, IMMUNOSUPPRESSION, ALLOANTISERA

ALLOGRAFT
SEE TISSUE COMPATIBILITY-TRANSPLANT, TRANSPLANTATION HOMOLOGOUS

ALLOIMMUNITY
SEE TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOIMMUNITY

ALLOPURINOL
SEE DIAZOLODIAZINES, PYRAZOLOPYRIMIDINES, ALLOPURINOL

ALLOSTERIC SITES
SEE CHEMICAL REACTION SITES, ALLOSTERIC SITES

ALLOXAN
SEE PYRIMIDINES, ALLOXAN

ALLOYS
SEE METALS, ALLOYS

ALLYLAMINES
SEE AMINES, ALLYLAMINES

ALOUATTA
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*

ALPHA GLOBULIN(S)
SEE GLOBULINS, ALPHA GLOBULINS

ALPHA 2-AP-GLOBULIN
SEE IMMUNOLOGY, ACUTE PHASE PROTEINS

ALPHA RECEPTORS
SEE NEUROTRANSMITTERS RECEPTORS, ADRENERGIC RECEPTORS, ALPHA RECEPTORS

ALPHA WAVE (BIOFEEDBACK) CONDITIONING
SEE PSYCHOLOGY, CONDITIONING, AUTOGENIC AND INTERNAL CONTROL

ALPHA WAVE (TROPHOTROPIC) STATE
SEE PSYCHIC ACTIVITY LEVEL, TROPHOTROPIC STATE

ALPRENOLOL
SEE AMINO ALCOHOLS, PROPANOLS, ALPRENOLOL

ALTERNATION OF GENERATIONS
SEE BIOLOGY, LIFE CYCLE

ALTITUDE
SEE ENVIRONMENT, ALTITUDE

ALTITUDE STRESS
SEE ENVIRONMENT, STRESS, ALTITUDE

ALVEOLAR MACROPHAGES
SEE RESPIRATORY SYSTEM, ALVEOLAR MACROPHAGES

ALVEOLITIS ALLERGIC
SEE RESPIRATORY DISORDERS, PNEUMONITIS ALLERGIC INTERSTITIAL

ALVEOLUS, LUNG
SEE RESPIRATORY SYSTEM, LUNG ALVEOLUS

AMERICAN INDIANS
SEE SOCIAL GROUPS, ETHNIC, AMERICAN INDIANS

AMERICAN TYPE CULTURE COLLECTION
SEE TISSUE (CELL) CULTURE, CELL CULTURE COLLECTIONS BANKS AND REGISTRIES

AMIDATION
SEE AMIDES, AMIDATION

AMIDES
SEE ALSO PHOSPHORAMIDES
SEE ALSO SULFONAMIDES
R01HL-22780-01 Factors modifying the reaction properties of HgS (human)

AMIDES, ACETAMIDES
P01HL-15596-05 0008 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of antihemophilic factor (human)
R01HL-17571-03 Study relaxation (human)
P01HL-20993-02 0004 Population dynamics of arterial cells in atherogenesis - Modifications of cholesterol balance related to arterial cell divisions (swine)

AMIDES, AMIDATION
R01HL-14820-07 Factors affecting physiology of biological membranes (human) of membrane permeability by NMR
P60HL-20985-01 0006 Northern California sickle cell center - Antisickling properties of imidoesters (human, rats)
R01HL-21644-01 Fibronectin and related glycoproteins (human, rodents)

AMIDES, UREA
SEE ALSO THIOUREA
R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
P01HL-11310-12 0080 Mechanisms of cardiovascular disease - Metabolism of the hypertrophied myocardium (human)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
P01HL-15596-05 0008 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of antihemophilic factor (human)
R01HL-16375-04 Investigation of hemoglobin S properties (human)
R01HL-17571-03 Study of membrane permeability by NMR relaxation (human)
R01HL-17847-04 Cardiovascular and renal functions of marmots
P50HL-19153-02 0005 SCOR--Pulmonary edemas--Etiology, pathogenesis - Lung vascular permeability measured by indicator dilution methods (sheep)
P01HL-21016-02 0002 Sickle cell anemia and other hemoglobinopathies - Molecular events proceeding gelation of Hb S
P01HL-21016-02 0004 Sickle cell anemia and other hemoglobinopathies - Kinetics of sickling
** P01HL-21016-02 0010 Sickle cell anemia and other hemoglobinopathies - Alkylureas as potential anti-sickling agents
P01HL-21016-02 0013 Sickle cell anemia and other hemoglobinopathies - Microcirculatory response to sickle cell treated with anti-sickling agents (rats)
R01HL-22924-01 The airway mucosal barrier (guinea pigs)

AMIDINOTRANSFERASES
R01HL-20106-02 Coupling of platelet contractile proteins to fibrin (human)

AMILORIDE
SEE PYRAZINAMIDES, AMILORIDE

AMINE HORMONES
SEE CHOLINE, ACETYLCHOLINE
SEE PHENYLALKYLAMINES, CATECHOLAMINES, EPINEPHRINE
SEE PHENYLALKYLAMINES, CATECHOLAMINES, NOREPINEPHRINE
SEE THYROID HORMONES, THYROXINE
SEE THYRONINE, TRIIODOTHYRONINE

AMINE OXIDASE
SEE OXIDOREDUCTASES, AMINE OXIDASE (FLAVIN CONTAINING)

AMINE OXIDASE (FLAVIN CONTAINING)
SEE OXIDOREDUCTASES, AMINE OXIDASE (FLAVIN CONTAINING)

AMINE OXIDASE (PYRIDOXAL CONTAINING)
SEE OXIDOREDUCTASES, AMINE OXIDASE (PYRIDOXAL-CONTAINING)

AMINE OXIDASE INHIBITORS
SEE ENZYME INHIBITORS, MONOAMINE OXIDASE INHIBITORS

AMINES
SEE ALSO AMMONIUM QUATERNARY
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)

AMINES, ALLYLAMINES
** R23HL-21327-02 Molecular mechanisms of chemical myocardiopathies (rats)

AMINES, BIOGENIC, NEURAL
SEE NEUROTRANSMITTERS (GENERAL)

AMINES, DIAMINES
R01HL-20079-02 0001 Thromboresistant material - Active and passive thromboresistant surfaces

AMINES, HYDROXYLAMINES, HYDROXAMIC ACIDS
R01HL-18679-04 Synthetic protease inhibitors
R01HL-20016-03 Chelator development for thalassemia (human, mice, rats, dogs, monkeys)

AMINES, POLYAMINES
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
** P50HL-19157-02 0009 Studies in cystic fibrosis and bronchiolitis - Polyamine metabolism in cystic fibrosis (human, rat)
P01HL-20984-02 0006 Cellular mechanisms in cardiac hypertrophy - Early biochemical aspects of cardiac hypertrophy (rats)
** R01HL-22623-01 Polyamines cellular mediators of atherogenesis (human)
R01HL-22883-01 Lung epithelial cell interactions in vitro

AMINES, PUTRESCINE
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
P50HL-19157-02 0009 Studies in cystic fibrosis and bronchiolitis - Polyamine metabolism in cystic fibrosis (human, rat)

AMINES, SPERMIDINE
P50HL-19157-02 0009 Studies in cystic fibrosis and bronchiolitis - Polyamine metabolism in cystic fibrosis (human, rat)

AMINES, SPERMINE
P50HL-19157-02 0009 Studies in cystic fibrosis and bronchiolitis - Polyamine metabolism in cystic fibrosis (human, rat)

AMINO ACID ANALYZER
SEE PHYSICAL SEPARATION, CHROMATOGRAPHY, AMINO ACID ANALYZER*

AMINO ACID DECARBOXYLASES
SEE DECARBOXYLASES, AMINO ACID DECARBOXYLASES

AMINOACIDOPATHIES, ACQUIRED
P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)

AMINOACIDOPATHIES, INBORN
SEE METABOLIC DISORDERS INBORN, AMINOACIDOPATHIES

AMINO ACID OXIDASES
SEE OXIDOREDUCTASES, AMINO ACID OXIDASES

AMINO ACIDS
SEE ALSO AMINO ACYL TRNA
SEE ALSO AMINOSULFONIC ACIDS
SEE ALSO CARBAMATES
SEE ALSO CYCLIC AMINO ACIDS
SEE ALSO NUTRITION, DIETARY CONSTITUENTS, DIETARY AMINO ACIDS
SEE ALSO OXAMATES
R01HL-01974-24 Ion-pump in the erythrocyte (rabbits, guinea pigs)
P01HL-07896-15 0032 Environmental biomedical research program - Fluorometry study of brain exposed to hyperbaric oxygen (dogs, cats)
R01HL-13193-09 Pathophysiology of post-traumatic and shock states (rodents, dogs)
P01HL-15195-04 0004 Program project in biological materials - Biological evaluation and surface interaction studies (dogs)
P01HL-15832-06 0001 Chemical-structural predispositions to lung injury - Chemical composition of lung connective tissue proteins (human, animals)
R01HL-16553-05 Diagnosis of myocardial infarction by radioisotopes (mice, rats, goats)
R01HL-17930-03 Platelet membrane function--Assessment and application (animals)
R01HL-18593-03 Characterization of heart valve collagen (human, pig)
R01HL-20344-02 Regulation of protein turnover in lung tissue (rats)
R01HL-21140-01 Studies of pulmonay alveolar macrophage function (rabbits)
R01HL-21970-01 Myofibrillar assembly and breakdown in cardiac muscle (rats)
R01HL-22387-01 Metalloenzymes and disease
R01HL-22780-01 Factors modifying the reaction properties of HgS (human)

AMINO ACIDS, ALANINE
P01HL-15195-04 0001 Program project in biological materials - Design and synthesis
P50HL-17651-04 0041 Ischemic heart disease specialized center of research - Biochemical indices of ischemic injury (guinea pig)
R01HL-21381-02 Amino acid metabolism in normal and hypoxic myocardium (rabbits)

AMINO ACIDS, GAMMA-AMINOBUTYRIC ACID
R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
P01HL-16878-05 0004 Control of ventilation in health and disease - Neurotransmitters in the respiratory system (cats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))

AMINO ACIDS, ALPHA-AMINOISOBUTYRIC ACID
SEE ALSO CYCLIC AMINO ACIDS, DOPA, ALPHA-METHYL DOPA
R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)

AMINO ACIDS, BRANCHED CHAIN AMINO ACIDS
P50HL-17665-04 0029 Study of ischemic heart disease Myocardial protein synthesis and degradation in low oxygen states (rabbit, dog)
R01HL-18258-04 Regulation of protein degradation in heart (rats)
R01HL-20388-03 Regulation of protein turnover in diabetic heart (rat)
R01HL-21381-02 Amino acid metabolism in normal and hypoxic myocardium (rabbits)

AMINO ACIDS, N-CARBAMYL AMINO ACIDS
P60HL-15160-07 0008 Center for sickle cell disease - Isocyanate derivatives and hemoglobin S association (human, rat)

AMINO ACIDS, CREATINE
R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)

AMINO ACIDS, CREATINE PHOSPHATE
** P01HL-06312-17 0034 Surgical cardiology - Metabolic factors in cardiac function--Creatine phosphate depletion (animals)
P01HL-11351-12 0021 Cellular and molecular mechanisms of myocardial function - Muscle energetics (frogs)
P01HL-11351-12 0022 Cellular and molecular mechanisms of myocardial function - Energetic sequelae of shortening--Myothermal and biochemical (frogs)
P01HL-11351-12 0023 Cellular and molecular mechanisms of myocardial function - Energetics of mammalian muscle (rats)
P01HL-15835-06 0011 Study of muscles related to heart disease - Energetics and mechanism of muscle contraction (frogs, rabbits)
P50HL-17670-04 0023 Study of ischemic heart disease - Energy metabolism in acute myocardial ischemic injury (dogs)
R01HL-20658-01 Myocardial energy transport--Creative kinase (human, cattle, dog)
R01HL-21312-01 Sarcomere mechanics in disrupted ventricular muscle (guinea pigs)
R23HL-21842-01 Control of sugar entry in normal and diabetic heart (rats)
R01HL-22290-01 Cardiac energy metabolism and protein synthesis (mice)

AMINO ACIDS, CREATININE
R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)

AMINO ACIDS, DIETARY
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY AMINO ACIDS

AMINO ACIDS, ETHYLENEDIAMINO ACIDS, EDTA
P50HL-14230-07 0097 A/S SCOR-Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)
R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)

AMINO ACIDS, GLYCINE
SEE ALSO AMINO ACIDS, SARCOSINE
SEE ALSO PEPTIDES, GLUTATHIONE
R01HL-02558-22 Structure-function relationships in the heme proteins (human, cattle)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
** R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
P01HL-16878-05 0004 Control of ventilation in health and disease - Neurotransmitters in the respiratory system (cats)
R01HL-21303-02 Collagen synthesis by cultured human vascular cells

AMINO ACIDS, HIPPURATES, P-AMINOHIPPURATE
R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)

AMINO ACIDS, HOMOSERINE
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)

AMINO ACIDS, LEUCINE
P01HL-15195-04 0001 Program project in biological materials - Design and synthesis
P01HL-19242-02 0001 Study of vascular smooth muscle Energy metabolism and protein turnover in vascular smooth muscle (rats)

AMINO ACIDS, LIPOAMINO ACIDS
SEE PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PHOSPHATIDYL SERINE

AMINO ACIDS, PHOSPHOSERINE
P01HL-12157-11 0038 Functions and mechanisms of cell membrane ion transport Mechanisms and interactions of gases and ions with bilayer membranes (human)

AMINO ACIDS, SARCOSINE
** P01HL-06835-17 0056 Cardiovascular disease Angiotensin analogs Sarcosine on arterial pressure, aldosterone (dogs)

AMINO ACIDS, SERINE
SEE ALSO AMINO ACIDS, PHOSPHOSERINE
SEE ALSO PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PHOSPHATIDYL SERINE
R01HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin

AMINO ACIDS, SERUM AMINO ACIDS
R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)

AMINO ACIDS, UREA CYCLE
SEE ALSO AMIDES, UREA
SEE ALSO DIAMINO ACIDS, ARGININE
R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)

AMINO ACIDS, VALINE
P01HL-15195-04 0001 Program project in biological materials - Design and synthesis
R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)

AMINO ACIDS METABOLISM (GENERAL)
SEE ALSO AMINO ACIDS TRANSPORT (GENERAL)
SEE ALSO METABOLIC DISORDERS INBORN, AMINOACIDOPATHIES
SEE ALSO PROTEINS METABOLISM
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
P01HL-11310-12 0080 Mechanisms of cardiovascular disease - Metabolism of the hypertrophied myocardium (human)
R01HL-12564-09 Control of respiration and blood gases (human, dog)
** R01HL-13193-09 Pathophysiology of post-traumatic and shock states (rodents, dogs)
R01HL-14706-07 Fetal hearts in organ culture (mice)
P50HL-17665-04 0029 Study of ischemic heart disease - Myocardial protein synthesis and degradation in low oxygen states (rabbit, dog)
R01HL-18258-04 Regulation of protein degradation in heart (rats)
P01HL-18575-03 0005 Mechanisms of vascular changes in hypertension - Renin synthesis in normotensive and hypertensive pigs (also rats, dogs)
P01HL-19242-02 0001 Study of vascular smooth muscle - Energy metabolism and protein turnover in vascular smooth muscle (rats)
R01HL-20388-03 Regulation of protein turnover in diabetic heart (rat)
P01HL-20552-02 0001 The development and regression of cardiac hypertrophy - Biochemical events in cardiac hypertrophy (rats)
** R01HL-21381-02 Amino acid metabolism in normal and hypoxic myocardium (rabbits)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)

AMINO ACIDS SEQUENCE
SEE PROTEINS-PEPTIDES STRUCTURE, AMINO ACIDS SEQUENCE

AMINO ACIDS TRANSPORT (GENERAL)
SEE ALSO AMINO ACYL TRNA
R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
P01HL-06312-17 0034 Surgical cardiology - Metabolic factors in cardiac function--Creatine phosphate depletion (animals)
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
** R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
P50HL-14212-07 0016 Correlated studies of pulmonary fibrosis - Role of pulmonary alveolar macrophages in fibrosis (human, rabbit)
R01HL-16567-04 Differentiation of the heart-cell membrane (mice, chick)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
P01HL-19737-02 0001 Cellular and molecular aspects of respiratory physiology - Fatty acid metabolism in type II alveolar cells (rats)
** R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)
R01HL-22172-01 Hypotension renal ischemia and effect of mannitol (dogs, rats)
** R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)

AMINOACIDURIA INBORN
SEE METABOLIC DISORDERS INBORN AMINOACIDOPATHIES

AMINOACRIDINES
SEE ACRIDINES, AMINOACRIDINES

AMINO ACYL TRNA
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
R01HL-20344-02 Regulation of protein turnover in lung tissue (rats)

AMINOACYLTRANSFERASES, TRANSGLUTAMINASES
SEE ALSO BLOOD COAGULATION, FIBRIN STABILIZING FACTOR
R01HL-16346-09 Enzyme assay for blood clotting (human)

AMINO ALCOHOLS, ETHANOLAMINES
SEE ALSO CHOLINE
SEE ALSO PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PHOSPHATIDYL ETHANOLAMINE
SEE ALSO PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PLASMALOGENS
R01HL-22500-01 Conversion of choline to phosphatidylcholine in lung (rabbits, pigs)

AMINO ALCOHOLS, PROPANOLS, ALPRENOLOL
P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
R01HL-20783-02 Airway reactivity-B-adrenoceptors and prostaglandins (guinea pigs)
P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)
R01HL-22522-01 Cardioselectivity of beta-adrenoceptor antagonists

P-AMINOBENZOATE, PROCAINE HYDROCHLORIDE
SEE ALSO PHENYLAMIDES, PROCAINE AMIDE
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)

GAMMA-AMINOBUTYRIC ACID
SEE AMINO ACIDS, GAMMA-AMINOBUTYRIC ACID

AMINOFORMAMIDINE
SEE GUANIDINES

AMINOGLYCOLIPID (CERAMIDE TRIHEXISODE)
SEE GLYCOSPHINGOLIPIDS, CERAMIDE TRIHEXOSIDES

P-AMINOHIPPURATE
SEE AMINO ACIDS, HIPPURATES, P-AMINOHIPPURATE

AMINOHYDROLASES
SEE ALSO OXIDOREDUCTASES, AMINO ACID OXIDASES
R01HL-14456-07 Lung metabolism--Enzymes in the pulmonary circulation (human, animals)

AMINOHYDROLASES, ADENOSINE DEAMINASE
R01HL-12944-09 Enzymatic and biochemical studies on blood cells (human)
R01HL-15125-07 Molecular pathology of genetic disorders in man

AMINOHYDROLASES, ADENYLATE DEAMINASE
R01HL-22538-01 Myosin as a multi-enzyme complex (dogs, rabbits)

AMINOINDOLES
SEE BENZOPYRROLES, INDOLEAMINES (GENERAL)

ALPHA-AMINOISOBUTYRIC ACID
SEE AMINO ACIDS, ALPHA-AMINOISOBUTYRIC ACID

ALPHA-AMINO,ALPHA-OXYACETIC ACID
SEE OXAMATES

AMINOPHYLLINE
SEE PURINES, XANTHINES, AMINOPHYLLINE

AMINOPOLYSACCHARIDES
SEE POLYSACCHARIDES, GLYCOSAMINOGLYCANS

BETA-AMINOPROPIONITRILE
SEE CYANIDES, AMINOALKYL NITRILES, BAPN

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

AMINOPYRIDINES
SEE PYRIDINES, AMINOPYRIDINES

P-AMINOSALICYLATES
SEE PHENYLCARBOXYLATES, SALICYLATES, P-AMINO-

AMINO SUGARS
SEE CARBOHYDRATES, AMINO SUGARS

AMINO SULFIDES, CYSTAMINE
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)

AMINOSULFONIC ACIDS
SEE ALSO SULFONAMIDES
R01HL-18679-04 Synthetic protease inhibitors

AMINOSULFONIC ACIDS, TAURINE
R01HL-09234-13 Amino acids of contractile proteins of failing hearts (dogs, hamsters)
** R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
** R01HL-18554-03 Taurine metabolism in mammalian heart (rodents, cattle, swine)
** R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
** R01HL-20211-02 Role of taurine in the heart (dogs, rats, mice)
P01HL-20592-02 0003 Cell biology of cardiac and skeletal muscle - Cellular magnesium and anion activities in ion-specific microelectrodes (frogs)

AMINOTHIOLS, CYSTEAMINE
P01HL-06370-17 0015 Cardiopulmonary and renal pathology research center - Pathogenesis of chemically induced tissue injury (rats)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)

AMINOTRANSFERASES, ALANINE TRANSAMINASE
P01HL-06312-17 0053 Surgical cardiology - Enzyme pattern following cardiac surgery (human)
R01HL-22838-01 Post-transfusion hepatitis in newborn children

AMINOTRANSFERASES, ASPARTATE TRANSAMINASE
P01HL-06312-17 0053 Surgical cardiology - Enzyme pattern following cardiac surgery (human)
** R01HL-13035-08 Heart mitochondrial malate dehydrogenase regulation
** R01HL-22265-02 Isozymes of heart glutamate aspartate transaminase (swine, ducks)

AMITRIPTYLINE
SEE CYCLOHEPTANES, AMITRIPTYLINE

AMMONIA
R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
R01HL-12564-09 Control of respiration and blood gases (human, dog)
R01HL-21381-02 Amino acid metabolism in normal and hypoxic myocardium (rabbits)

AMMONIA-LYASES, ASPARTASE
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)

AMMONIUM
R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)

AMMONIUM QUATERNARY
SEE ALSO CHOLINE
SEE ALSO PHENYLALKYLAMINES, BENZYLAMINES, BRETYLIUM TOSYLATE
SEE ALSO PHENYLAMINES, NEOSTIGMINE
R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)
** R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)

AMMONIUM QUATERNARY, BETAINE COMPOUNDS, CARNITINE
P01HL-06308-18 0040 Mechanisms and therapy of circulatory disease - Metabolism and fatty acid utilization--Heart electrical stability (rats, dogs)
R01HL-13028-09 Regulation of myocardial fatty acid metabolism (rats)
R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
** R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
** R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
** R01HL-20308-02 Regulation of myocardial acylcarnitine transport (rats)
R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)
** R01HL-22813-01 Palmitylcarnitine inhibition of ion pumps in ischemia (dogs)
** R01HL-23161-01 0002 Biology of myocardial ischemia - Palmitylcarnitine inhibition of ion pumps in myocardial ischemia (dog, sheep)

AMMONIUM QUATERNARY, CHOLESTYRAMINE
P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
R01HL-08634-15 Enzymic cholesterol synthesis (human, rats, protozoa, yeast)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P50HL-14230-07 0093 A/S SCOR--Lipids, atherosclerosis and thrombosis - Clinical studies involving cellular lipid content (human)
P50HL-14236-05 0009 Prevention of premature arteriosclerosis - Clinical studies on cholesterol metabolism (human)
P50HL-15062-07 0018 Study of lipoproteins, artery wall, and atherosclerosis - Reversal of atherosclerosis in monkeys
R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
R01HL-16587-04 Cholesterol binding saponins and atherosclerosis (monkeys)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
R01HL-18454-03 Maximal exercise testing in hyperlipidemic children
R01HL-22567-01 Validation of a cholesterol absorption method in man
N01HV-22913-09 Lipid research clinic

AMMONIUM QUATERNARY, TETRAETHYLAMMONIUM COMPOUNDS
R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)
R01HL-21371-02 Energy loss microanalysis of myocardial cations
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
R01HL-22562-02 Mechanism of cardiac action potential propagation (tunicates)

AMNIOCENTESIS
SEE PREGNANCY, AMNIOCENTESIS

AMP
SEE ARTHRITIS AND METABOLIC DISEASES PROGRAM PROJECT COMMITTEE
SEE PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, AMP

AMP CYCLIC
SEE PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, AMP CYCLIC

AMPHETAMINE
SEE PHENYLALKYLAMINES, AMPHETAMINE

D-AMPHETAMINE
SEE PHENYLALKYLAMINES, D-AMPHETAMINE

AMPHIBIANS, ANURANS*
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
R01HL-13929-06 Single nephron response to chronic obstruction (frogs, rats)
R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)

AMPHOTERICIN-B
SEE ANTIBIOTICS, AMPHOTERICIN-B

AMPUTATION
SEE SKELETAL SYSTEM, LIMB, AMPUTATION

ALPHA-AMYLASE
SEE CARBOHYDRASES, ALPHA-AMYLASE

AMYL NITRITE
SEE NITRITES, AMYL NITRITE

AMYLOID SUBSTANCE
SEE GLOBULINS, AMYLOID SUBSTANCE

AMYLOIDOSIS (INCLUDING NON-INBORN CASES)
SEE METABOLIC DISORDERS (INBORN), AMYLOIDOSIS

ANABOLIC FACTORS
SEE GROWTH FACTORS (INCL. ANABOLICS)

ANAEROBES, BACTERIAL
SEE MICROORGANISMS, ANAEROBES

ANAEROBIC MICROORGANISMS
SEE MICROORGANISMS, ANAEROBES

ANAEROBIOSIS
SEE RESPIRATION INTERNAL, ANAEROBIOSIS

ANALGESICS
SEE NEUROPHARMACOLOGICAL AGENTS, ANALGESICS

ANALOGS OF HALOGENATED BIPHENYLS AND TRIPHENYLS
SEE HALOBENZENES, HALOGENATED BIPHENYLS-TRIPHENYLS AND ANALOGS

ANALYSIS AND EVALUATION OF SYSTEMS (GENERAL)
SEE INFORMATION AND COMMUNICATION, SYSTEMS ANALYSIS

ANALYSIS OF BIOMEDICAL RESEARCH PROGRAMS
SEE HEALTH SCIENCES RESEARCH ANALYSIS-EVALUATION-PLANNING

ANALYSIS OF HEALTH CARE SERVICES AND RESOURCES
SEE HEALTH CARE (SERVICES)(RESOURCES) ANALYSIS AND EVALUATION

ANALYTICAL CHEMISTRY
SEE CHEMISTRY, ANALYTICAL

ANALYTICAL ELECTRON MICROSCOPY
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, ELECTRON PROBE*

ANALYTICAL METHODS
SEE CHEMISTRY, ANALYTICAL METHODS*

ANALYTICAL ULTRACENTRIFUGATION
SEE PHYSICAL SEPARATION, ULTRACENTRIFUGATION, ANALYTICAL*

ANAPHYLAXIS
SEE HYPERSENSITIVITY, ANAPHYLAXIS

ANATOMY (GENERAL)*
SEE ALSO BODY PHYSICAL CHARACTERISTICS (GENERAL)
SEE ALSO NEUROANATOMY
P01HL-03174-23 0007 Mechanisms of acute vascular reaction to injury - Healing of injured myocardium--Basal lamina scaffold (human, rats, dogs)
P01HL-06312-17 0052 Surgical cardiology - Assay of metabolic variables of rat heart
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
R01HL-12486-10 Structure-function correlation in the atrium (rabbits)
R01HL-17969-04 Function and structure of semilunar valves (dogs)
** P01HL-18575-03 0012 Mechanisms of vascular changes in hypertension - Anatomy core facility
R01HL-18639-03 Human anatomy for cardiac prostheses (human)
R23HL-21253-01 Anatomical models in computer-aided image analysis
R01HL-22963-01 Symbolic logic analysis of congenital heart disease (human)

ANATOMY MICROSCOPIC (HISTOLOGY)
SEE HISTOLOGY (GENERAL)*

ANDROGENS
SEE ANOROSTANE SERIES, ANOROGENS

ANDROMEDOTOXINS
SEE TOXICOLOGY, PLANT POISONS, GRAYANOTOXINS

ANDROSTANE SERIES, ANDROGENS
R01HL-03357-21 Humoral control of blood cell formation and release (rats, mice)
R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
** R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
** R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
** R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
R01HL-18012-04 Cellular defects in nocturnal hemoglobinuria (human)
P01HL-18645-03 0007 Biology of the artery wall and atherosclerosis - Lipoprotein metabolism in subhuman primates
R01HL-21418-02 Experimental myocardial infarction (rats)
R01HL-22812-01 Regulation of hepatic production of HDL (rats)

ANDROSTANE SERIES, ANDROSTANOLONE
R01HL-22040-01 Regulation of lysyl-cross-linking in vascular tissue (rats, turkeys)

ANDROSTANE SERIES, ANDROSTENEDIOL
P50HL-18318-03 0009 Pathogenesis and complications of hypertension - The mineralocorticoid-hypertensive syndrome in man
R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)

ANDROSTANE SERIES, ANDROSTERONE
P50HL-18323-04 0038 SCOR hypertension center - Unknown adrenocortical mechanisms in hypertension (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

ANDROSTANE SERIES, DEHYDROEPIANDROSTERONE
R01HL 18102 02 Role of the adrenal cortex in human hypertension
P50HL 18318 03 0004 Pathogenesis and complications of hypertension Steroid and renin profiles in hypertension (rats, human)
P50HL 18318 03 D009 Pathogenesis and complications of hypertension The mineralocorticoid hypertensive syndrome in man
R01HL 18730 03 Role of mineralocorticoids in low renin hypertension (human, rats)

ANDROSTANE SERIES, OXANDROLONE
P01HL 18574 03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
R01HL 22607 01 Role of apolipoprotein F in lipoprotein metabolism (human)

ANDROSTANE SERIES, PANCURONIUM
R23HL 22309 01 Cardiovascular pharmacodynamics in immature dogs

ANDROSTANE SERIES, TESTOSTERONE
P01HL 16387 04 0002 The blood vessel and thrombogenesis - Hormonal effects on thrombogenesis (rats, rabbits)
R01HL 17721 04 Effect of sex hormones on vascular connective tissue (rats)
R01HL 20364 01 Episodic hypertension associated with human behavior (air traffic controllers)

ANDROSTANE SERIES 5 BETA, ETIOCHOLANOLONE
P60HL 15170 05 0017 Support for center for sickle cell anemia - Control of hemoglobulin synthesis (human)

ANDROSTANOLONE
SEE ANDROSTANE SERIES, ANDROSTANOLONE

ANDROSTENEDIOL
SEE ANDROSTANE SERIES, ANDROSTENEDIOL

ANDROSTENOLONE
SEE ANDROSTANE SERIES, DEHYDROEPIANDROSTERONE

ANDROSTERONE
SEE ANDROSTANE SERIES, ANDROSTERONE

ANEMIA
SEE BLOOD AND RE DISORDERS, ANEMIA

ANEMIA APLASTIC
SEE BLOOD AND RE DISORDERS, ANEMIA APLASTIC

ANEMIA APLASTIC CONGENITAL
SEE BLOOD AND RE DISORDERS, ANEMIA APLASTIC CONGENITAL

ANEMIA HEMOLYTIC
SEE BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC

ANEMIA HEMOLYTIC AUTOIMMUNE
SEE BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC AUTOIMMUNE

ANEMIA HEMOLYTIC CONGENITAL (FAMILIAL)
SEE BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC CONGENITAL (GENERAL)

ANEMIA HEMOLYTIC IDIOPATHIC
SEE BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC AUTOIMMUNE

ANEMIA MEGALOBLASTIC
SEE BLOOD AND RE DISORDERS, ANEMIA MEGALOBLASTIC

ANEMIA SIDEROBLASTIC
SEE BLOOD AND RE DISORDERS, ANEMIA SIDEROBLASTIC

ANESTHESIA
SEE SENSORY DEPRESSION, ANESTHESIA (GENERAL)

ANESTHESIA, BLOCK
SEE SENSORY DEPRESSION, ANESTHESIA CONDUCTION

ANESTHESIA, CONDUCTION
SEE SENSORY DEPRESSION, ANESTHESIA CONDUCTION

ANESTHESIA, INHALATION
SEE SENSORY DEPRESSION, ANESTHESIA (GENERAL), INHALATION

ANESTHESIA, LOCAL
SEE SENSORY DEPRESSION, ANESTHESIA CONDUCTION, LOCAL

ANESTHESIA, REGIONAL
SEE SENSORY DEPRESSION, ANESTHESIA CONDUCTION

ANESTHESIA COMPLICATIONS
SEE DISEASES, COMPLICATIONS, ANESTHESIA RELATED

ANESTHETICS
SEE NEUROPHARMACOLOGICAL AGENTS, ANESTHETICS

ANESTHETICS, LOCAL
SEE NEUROPHARMACOLOGICAL AGENTS, ANESTHETICS, LOCAL

ANEURYSM
SEE CARDIOVASCULAR DISORDERS, ANEURYSM

ANEURYSMS, CARDIAC
SEE HEART DISORDERS, ANEURYSMS

ANGER
SEE PSYCHOLOGY, EMOTIONS, ANGER

ANGER CAMERA SCANNING
SEE RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING*

ANGIITIS
SEE CARDIOVASCULAR DISORDERS, ARTERITIS
SEE CARDIOVASCULAR DISORDERS, THROMBOPHLEBITIS

ANGINA, INTESTINAL
SEE GASTROINTESTINAL CIRCULATORY DISORDERS, CIRCULATORY INSUFFICIENCY

ANGINA PECTORIS
SEE HEART DISORDERS, CORONARY, ANGINA PECTORIS

ANGIOCARDIOGRAPHY
SEE HEART VISUALIZATION, ANGIOCARDIOGRAPHY*

ANGIOCARDIOULTRASONOGRAPHY
SEE HEART VISUALIZATION, ANGIOCARDIOULTRASONOGRAPHY*

ANGIOEDEMA HEREDITARY
SEE METABOLIC DISORDERS INBORN, ANGIONEUROTIC EDEMA (HEREDITARY)

ANGIOGENESIS
SEE CARDIOVASCULAR SYSTEM, ANGIOGENESIS

ANGIOGENESIS FACTOR, TUMOR
SEE NEOPLASMS VASCULAR SUPPLY, TUMOR ANGIOGENESIS FACTOR

ANGIOGRAPHY
SEE CARDIOVASCULAR VISUALIZATION, ANGIOGRAPHY*

ANGIOHEMOPHILIA
SEE BLOOD COAGULATION DISORDERS, VON WILLEBRAND'S DISEASE

ANGIOMA
SEE NEOPLASMS OF CARDIOVASCULAR SYSTEM

ANGIONEUROTIC EDEMA (HEREDITARY)
SEE METABOLIC DISORDERS INBORN, ANGIONEUROTIC EDEMA (HEREDITARY)

ANGIOSPERMS (GENERAL)
SEE PLANTS, ANGIOSPERMS (GENERAL)*

ANGIOTENSIN
SEE PEPTIDES, VASOACTIVE PEPTIDES, ANGIOTENSIN

ANGIOTENSIN II
SEE PEPTIDES, VASOACTIVE PEPTIDES, ANGIOTENSIN II

ANGIOTENSINASE
SEE PROTEASES AND PEPTIDASES, ANGIOTENSINASE

ANGIOTENSINASE C
SEE PROTEASES AND PEPTIDASES, PROLYLCARBOXYPEPTIDASE

ANGIOTENSINOGEN
SEE PEPTIDES, VASOACTIVE PEPTIDES, ANGIOTENSINOGEN

ANGIOTENSIN-RENIN-ALDOSTERONE-ASSOCIATED HYPERTENSION
SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), ANGIOTENSIN-RENIN-ALDOSTERONE-ASSOCIATED

ANGIOTOMOGRAPHY
SEE CARDIOVASCULAR VISUALIZATION, ANGIOTOMOGRAPHY*

ANHYDRIDES
SEE ETHERS
SEE OXIDES (SEE ALSO SPECIFICS)

ANIMAL AGE AND LIFE STAGES
SEE AGE (ANIMAL)

ANIMAL BEHAVIOR
SEE PSYCHOLOGY, BEHAVIOR ANIMAL

ANIMAL CARE
SEE ANIMALS, VETERINARY SCIENCE, ANIMAL CARE

ANIMAL FACILITIES, RESOURCES
SEE ALSO ANIMALS, VETERINARY SCIENCE
SEE ALSO MAMMALS, PRIMATE COLONIES
** N01HB-42971-12 Chimpanzees for hepatitis research
** P01HL-12373-10 0D19 Cardiopulmonary physiology and pathophysiology - Free ranging animal facility
** P50HL-14164-07 DD25 A/S SCOR--Comparative and experimental atherosclerosis - Animal care resource and laboratory animal medicine unit (monkeys, pigeons)
P50HL 14164 07 0028 A/S SCOR Comparative and experimental atherosclerosis Hyper and hyporesponsiveness to dietary cholesterol (African green monkey)
P50HL 14164 07 0029 A/S SCOR Comparative and experimental atherosclerosis Development of pigeon substrains
** P5DHL 14214 07 DD35 Newborn lung center for hyaline membrane disease Core Animal care facility
** P01HL 14985 07 DD17 Adaptation to hypoxia Core laboratories
P5DHL 15062 07 DD21 Study of lipoproteins, artery wall and atherosclerosis Core laboratories
** P01HL 15194 07 9D00 Pathophysiology of cardiopulmonary dysfunction Animal laboratory core
** R01HL 15647 06 Hematopoietic studies of cyclic hematopoiesis (dogs)
** P6DHL 17269 04 DD24 National heart and blood vessel research and [illegible] Section of experimental [illegible] [illegible]ery Core facility
** P5DHL 17646 04 0004 Study of ischemic heart disease Core experimental animal laboratories
** P5DHL 18318 03 0002 Pathogenesis and complications of hypertension Core experimental animal facility (rats, rabbits)
** P01HL 18575 03 DD1D Mechanisms of vascular changes in hypertension - Hypertensive pig Core
** P01HL 20993 02 D010 Population dynamics of arterial cells in atherogenesis - Animal care and development and standardization of animal models--Core
** R01HL 22227 01 A new source of hyaluronidase and anticoagulants (leeches)
** N01HV 72978 02 Development of models of hypertension
** N01HV 72980 02 Development of models of hypertension

ANIMAL HUSBANDRY
SEE ANIMALS, VETERINARY SCIENCE

ANIMAL POISONS
SEE TOXICOLOGY, ANIMAL POISONS

ANIMALS (SEE SPECIFIC ANIMALS)
SEE AGE (ANIMAL)
SEE AGE (ANIMAL), INFANTS MORTALITY
SEE ENVIRONMENT, ECOLOGY ANIMAL
SEE GENETICS, POPULATION GENETICS ANIMAL
SEE PSYCHOLOGY, BEHAVIOR ANIMAL

ANIMALS, CHORDATES, VERTEBRATES*
SEE ALSO BIRDS*
SEE ALSO FISH*
SEE ALSO MAMMALS*
SEE ALSO REPTILES*
R01HL 19995 02 Sensory transduction in cardiac mechanoreceptors (cats, frogs, rats)
R01HL 22562 02 Mechanism of cardiac action potential propagation (tunicates)

ANIMALS, VETERINARY MEDICINE
SEE ALSO POPULATION STUDIES ANIMAL, EPIZOOTIOLOGY
P5DHL 14164 07 0025 A/S SCOR--Comparative and experimental atherosclerosis - Animal care resource and laboratory animal medicine unit (monkeys, pigeons)
** R01HL 18947 02 Indirect mean arterial pressure (mammals)
P5DHL 19187 02 D013 Pediatric pulmonary SCOR--Hyaline membrane disease - Research resources core
P5DHL 19362 02 DD04 A/S SCOR--Atherosclerosis in nonhuman primates - Selective breeding for characters related to atherosclerosis (baboons)
** P50HL 19362 02 D016 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Animal services (baboon)

ANIMALS, VETERINARY SCIENCE
SEE ALSO ANIMAL FACILITIES, RESOURCES
R01HL 13645 11 Tryptophan-induced pulmonary emphysema (cattle, goats, rabbits)
** P01HL 14388 07 9D01 Regulation of the circulation in pathological states - Core facility for hypertensive animal colony (rats)
N01HV 62905 02 Non-human primate models of arteriosclerosis

ANIMALS, VETERINARY SCIENCE, ANIMAL CARE
** N01HI 72900 01 Maintenance of the NHLBI sheep colony
P5DHL 14164 07 DD25 A/S SCOR--Comparative and experimental atherosclerosis - Animal care resource and laboratory animal medicine unit (monkeys, pigeons)
P50HL 14214 07 0D35 Newborn lung center for hyaline membrane disease - Core--Animal care facility
P01HL 14388 07 9D01 Regulation of the circulation in pathological states - Core facility for hypertensive animal colony (rats)
** P5DHL 19362 02 DD16 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Animal services (baboon)

ANION
SEE IONS, ANION

ANOREXIA
SEE NUTRIENT INTAKE DISORDERS, APPETITE DISORDERS, ANOREXIA

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects
See Appendix for investigator's name and grant number.

ANOREXIGENIC DRUGS
SEE NUTRIENT INTAKE ACTIVITY, APPETITE DEPRESSANTS

ANOXIA
SEE RESPIRATORY GAS LEVELS, HYPOXIA

ANOXIA NEONATORUM
SEE RESPIRATORY GAS LEVELS, HYPOXIA NEONATORUM

ANOXIA RESPIRATORY
SEE RESPIRATORY GAS LEVELS, HYPOXIA, RESPIRATORY

ANTAGONISM
SEE DRUGS AND PHYSICAL AND/OR CHEMICAL AGENTS INTERACTION
SEE DRUGS INTERACTION
SEE PHYSICAL AND/OR CHEMICAL AGENTS INTERACTION (BIOLOGICAL AND ECOLOGICAL)

ANTEPARTUM DIAGNOSIS
SEE PREGNANCY, ANTEPARTUM DIAGNOSIS

ANTHOZOA
SEE COELENTERATES, ANTHOZOA*

ANTHROPOLOGY, PHYSICAL
SEE BODY PHYSICAL CHARACTERISTICS (GENERAL)

ANTHROPOMETRY
SEE BODY PHYSICAL CHARACTERISTICS (GENERAL)

ANTIACIDOSIS DRUGS
SEE BODY FLUID BALANCE, ACID-BASE, ANTIACIDOSIS DRUGS

ANTIADRENERGICS
SEE NEUROPHARMACOLOGICAL AGENTS, SYMPATHOLYTIC

ANTIALLERGY DRUGS
SEE HYPERSENSITIVITY, ANTIALLERGY DRUGS

ANTI-ANTIBODIES
SEE IMMUNOLOGY, ANTIBODIES, ANTI-ANTIBODIES

ANTIARRHYTHMIC AGENTS
SEE CARDIOVASCULAR AGENTS, ANTIARRHYTHMIC AGENTS

ANTIATHEROGENIC AGENTS
SEE CARDIOVASCULAR AGENTS, ANTIATHEROGENIC AGENTS

ANTIBACTERIAL AGENTS
SEE COMMUNICABLE DISEASE CONTROL AGENTS, ANTIBACTERIAL

ANTIBIOTICS
SEE ALSO COMMUNICABLE DISEASE CONTROL AGENTS
R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-14775-08 Mechanisms of drug action in vascular smooth muscle (dog, rabbits)
R01HL-15619-05 Regulation of prothrombin synthesis in cultured cells (rats)
R01HL-16474-05 Antibiotic-ion interactions (model membranes)
R01HL-17751-03 Experimental endocarditis (rabbits)
R01HL-18002-03 Circulatory shock, trauma and RE-system function (rats)
R01HL-19722-03 Aerosol growth in the respiratory system (models)
R01HL-19818-02 Endocarditis on prosthetic heart valves (rabbits, human)
R01HL-20963-01 Experimental lung abscess (rabbits)
** R01HL-22888-01 Prosthetic valve endocarditis--Etiology and therapy (dogs)

ANTIBIOTICS, ACTINOMYCIN
P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)

ANTIBIOTICS, ACTINOMYCIN D
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
P01HL-14388-07 0190 Regulation of the circulation in pathological states - Mechanisms of the renal actions of aldosterone (rats)

ANTIBIOTICS, ADRIAMYCIN
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)

ANTIBIOTICS, AMPHOTERICIN-B
R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions

ANTIBIOTICS, ANTINEOPLASTIC ANTIBIOTICS (GENERAL)
SEE ALSO ANTIBIOTICS, ACTINOMYCIN
SEE ALSO ANTIBIOTICS, ACTINOMYCIN D
SEE ALSO ANTIBIOTICS, ADRIAMYCIN
SEE ALSO ANTIBIOTICS, BLEOMYCIN
SEE ALSO ANTIBIOTICS, DAUNOMYCIN
SEE ALSO ANTIBIOTICS, KANAMYCIN
SEE ALSO ANTIBIOTICS, MITOMYCIN C
R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)

ANTIBIOTICS, BACITRACIN
** R01HL-16101-05 Protein-lipid interaction (bacteria, models)

ANTIBIOTICS, BLEOMYCIN
P01HL-16118-06 0003 Study of emphysema - Degradation of collagen and elastin (human, hamsters, mice)
R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
P01HL-19717-02 0008 Response of the lung to injury - Experimental models of lung disease
R01HL-19720-03 Evaluation of anti-fibrotic agents in pulmonary fibrosis (rats)

ANTIBIOTICS, DAUNOMYCIN
R01HL-20856-02 Platelet transfusions--Usage and complications (human)

ANTIBIOTICS, FILIPIN
R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions
R01HL-22052-01 Organization of free cholesterol in serum lipoproteins (human, dogs)

ANTIBIOTICS, GENTAMICIN
R01HL-14775-08 Mechanisms of drug action in vascular smooth muscle (dog, rabbits)

ANTIBIOTICS, GRAMICIDIN (UNSPECIFIED)
R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)

ANTIBIOTICS, KANAMYCIN
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)

ANTIBIOTICS, MITOMYCIN C
R01HL-08696-15 0013 Orthotopic heart transplantation - Transplantation immunology--Cardiac heterotransplantation (rabbits, dogs)

ANTIBIOTICS, NEOMYCIN
P50HL-14236-05 0009 Prevention of premature arteriosclerosis - Clinical studies on cholesterol metabolism (human)
R01HL-22567-01 Validation of a cholesterol absorption method in man

ANTIBIOTICS, NOVOBIOCIN
R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)

ANTIBIOTICS, NYSTATIN
R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions

ANTIBIOTICS, OLIGOMYCIN
R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)

ANTIBIOTICS, PENICILLIN
** P60HL-15996-06 0003 Cincinnati comprehensive sickle cell center - Prophylactic penicillin in treatment of sickle cell anemia (human)
R01HL-20170-02 Pulmonary infection in splenectomized animals (mice)

ANTIBIOTICS, PENICILLIN G
R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)

ANTIBIOTICS, RISTOCETIN A
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
P50HL-14217-08 0062 Specialized center of research in thrombosis - Coagulation section--Factor VIII and Factor XII (human, cattle)
R01HL-15230-05 Molecular basis of V Willebrand's disease and hemophilia (human, cattle)
P01HL-15596-05 0014 Coagulation, fibrinolysis, hemostasis and hepatitis - Von Willebrand factor and platelet retention in glass bead columns (swine)
P01HL-17430-05 0001 Control of coagulation - Porcine von Willebrand's disease
** P01HL-17430-05 0002 Control of coagulation - Isolation of ristocetin--von Willebrand factor (swine)
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
R01HL-19278-03 Ristocetin induced platelet aggregation (human)
R01HL-20517-03 Diabetes, somatotropin, factor VIII and atherosclerosis (human, animal)

ANTIBIOTICS, VALINOMYCIN
R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-23392-01 Membrane binding and transport of calcium and potassium ionophores

ANTIBIOTICS, VANCOMYCIN
R01HL-19278-03 Ristocetin induced platelet aggregation (human)

ANTIBODIES
SEE IMMUNOLOGY, ANTIBODIES

ANTIBODIES, BACTERIAL
SEE IMMUNOLOGY, ANTIBODIES BACTERIAL

ANTIBODIES, FUNGAL
SEE IMMUNOLOGY, ANTIBODIES FUNGAL

ANTIBODIES, VIRAL
SEE IMMUNOLOGY, ANTIBODIES VIRAL

ANTIBODIES NEOPLASTIC
SEE NEOPLASMS IMMUNOLOGY, TUMOR ANTIBODIES

ANTIBODIES SENSITIZING HUMORAL (CIRCULATING) (SERUM)
SEE HYPERSENSITIVITY, SENSITIZING ANTIBODIES HUMORAL

ANTIBODIES TO MICROBIAL TOXINS
SEE IMMUNOLOGY, ANTITOXINS

ANTIBODY-ANTIGEN REACTIONS
SEE IMMUNOLOGY, ANTIGEN-ANTIBODY REACTIONS

ANTIBODY-ANTIGEN REACTIONS IN VITRO
SEE IMMUNOLOGY, SEROLOGY*

ANTIBODY BIOSYNTHESIS
SEE IMMUNOLOGY, ANTIBODY FORMATION

ANTIBODY FORMATION
SEE IMMUNOLOGY, ANTIBODY FORMATION

ANTIBODY SPECIFICITY
SEE IMMUNOLOGY, ANTIBODY SPECIFICITY

ANTIBODY STRUCTURE
SEE GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN STRUCTURE

ANTICHOLINERGIC AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, PARASYMPATHOLYTIC

ANTICOAGULANTS
SEE BLOOD COAGULATION, ANTICOAGULANTS

ANTICONVULSANTS
SEE NEUROPHARMACOLOGICAL AGENTS, ANTICONVULSANTS

ANTIDEPRESSANTS
SEE PSYCHOPHARMACOLOGICAL AGENTS, ANTIDEPRESSANTS

ANTIDIURESIS
SEE KIDNEY FUNCTION, ANTIDIURESIS

ANTIDIURETIC HORMONE
SEE PITUITARY-DIENCEPHALON HORMONES, VASOPRESSIN

ANTIDIURETICS
SEE KIDNEY FUNCTION, ANTIDIURETICS

ANTIDROMIC IMPULSES
SEE NEUROPHYSIOLOGY, NEURAL TRANSMISSION, ANTIDROMIC IMPULSES

ANTIESTERASES
SEE ENZYME INHIBITORS, ANTIESTERASES

ANTIFERTILITY DRUGS
SEE FERTILITY, ANTIFERTILITY DRUGS

ANTIFIBRINOLYTIC AGENTS
SEE BLOOD COAGULATION, ANTIFIBRINOLYTIC AGENTS

ANTIFUNGAL AGENTS
SEE COMMUNICABLE DISEASE CONTROL AGENTS, ANTIFUNGAL

ANTIFUNGAL ANTIBODIES
SEE IMMUNOLOGY, ANTIBODIES FUNGAL

ANTIGEN-ANTIBODY REACTIONS
SEE IMMUNOLOGY, ANTIGEN-ANTIBODY REACTIONS

ANTIGEN-ANTIBODY REACTIONS IN VITRO
SEE IMMUNOLOGY, SEROLOGY*

ANTIGENS
SEE IMMUNOLOGY, ANTIGENS

ANTIGENS BACTERIAL
SEE IMMUNOLOGY, ANTIGENS BACTERIAL

ANTIGENS FUNGAL
SEE IMMUNOLOGY, ANTIGENS FUNGAL

ANTIGENS HELMINTHIC
SEE IMMUNOLOGY, ANTIGENS HELMINTHIC

ANTIGENS NEOPLASTIC
SEE NEOPLASMS IMMUNOLOGY, TUMOR ANTIGENS

ANTIGENS VIRAL
SEE IMMUNOLOGY, ANTIGENS VIRAL

ANTIGOUT DRUGS
SEE PURINES-PYRIMIDINES METABOLISM ERRORS, GOUT DRUGS

ANTI-H BLOOD GROUP (BOMBAY)
SEE BLOOD GROUPS, BOMBAY

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

ANTIHEMOPHILIC FACTOR
SEE BLOOD COAGULATION, FACTOR VIII

ANTIHEMOPHILIC FACTOR A
SEE BLOOD COAGULATION, FACTOR VIII

ANTIHEMOPHILIC FACTOR B
SEE BLOOD COAGULATION, FACTOR IX

ANTIHEMOPHILIC FACTOR C
SEE BLOOD COAGULATION, FACTOR XI

ANTIHEMOPHILIC GLOBULIN
SEE BLOOD COAGULATION, FACTOR VIII

ANTIHISTAMINES
SEE HYPERSENSITIVITY, ANTIALLERGY DRUGS, HISTAMINE ANTAGONISTS

ANTIHYPERTENSIVE AGENTS
SEE CARDIOVASCULAR AGENTS, ANTIHYPERTENSIVE AGENTS

ANTIINFECTIVE AGENTS
SEE COMMUNICABLE DISEASE CONTROL AGENTS

ANTIINFECTIVE AGENTS, ANTIBACTERIAL
SEE COMMUNICABLE DISEASE CONTROL AGENTS, ANTIBACTERIAL

ANTIINFLAMMATORY AGENTS
SEE DISEASES, PATHOLOGIC PROCESSES, INFLAMMATION, ANTIINFLAMMATORY AGENTS

ANTILEUKOCYTIC SERA
SEE IMMUNITY, IMMUNOSUPPRESSION, ALLOANTISERA, ANTILEUKOCYTIC

ANTILYMPHOCYTIC SERA
SEE IMMUNITY, IMMUNOSUPPRESSION, ALLOANTISERA, ANTILEUKOCYTIC

ANTIMALARIALS
SEE COMMUNICABLE DISEASE CONTROL AGENTS, ANTIMALARIALS

ANTIMETABOLITES
SEE ALSO ANTIBIOTICS
SEE ALSO ANTIMITOTIC AGENTS
SEE ALSO ENZYME INHIBITORS
SEE ALSO NEOPLASTIC THERAPY, ANTINEOPLASTIC AGENTS
SEE ALSO THYROID ANTAGONISTS
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
R01HL-15619-05 Regulation of prothrombin synthesisin cultured cells (rats)
P01HL-19737-02 DD11 Cellular and molecular aspects of respiratory physiology - Chemical and metabolic factors on peripheral chemoreceptor activity (cats)
R23HL-21853-01 Lung metabolism and alveolo-capillary permeability (rats)
R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis

ANTIMETABOLITES, ANTINEOPLASTIC
SEE NEOPLASTIC THERAPY, ANTINEOPLASTIC AGENTS

ANTIMICROBIAL AGENTS
SEE COMMUNICABLE DISEASE CONTROL AGENTS

ANTIMITOTIC AGENTS
SEE ALSO ANTIMETABOLITES
P01HL-16387-04 OD03 The blood vessel and thrombogenesis - Blood vessel healing (rabbits)
R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)
RD1HL-20826-02 Megakaryocyte proliferation and its control (mice)

ANTIMUSCARINIC AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, PARASYMPATHOLYTIC

ANTIMYCOTIC AGENTS
SEE COMMUNICABLE DISEASE CONTROL AGENTS, ANTIFUNGAL

ANTINEOPLASTIC AGENTS
SEE NEOPLASTIC THERAPY, ANTINEOPLASTIC AGENTS

ANTINEOPLASTIC ANTIBIOTICS
SEE ANTIBIOTICS, ANTINEOPLASTIC ANTIBIOTICS (GENERAL)

ANTIOXIDANTS
SEE OXIDANTS, ANTIOXIDANTS

ANTIPARKINSON DRUGS
SEE NEUROPHARMACOLOGICAL AGENTS, ANTIPARKINSON DRUGS

ANTIPERNICIOUS ANEMIA PRINCIPLE
SEE VITAMIN B12

ANTIPYRETICS
SEE NEUROPHARMACOLOGICAL AGENTS, ANALGESICS, ANTIPYRETICS

ANTIRENIN
SEE PEPTIDES, VASOACTIVE PEPTIDES, ANTIRENIN

ANTIRHEUMATIC AGENTS
SEE CONNECTIVE TISSUE DISORDERS, RHEUMATIC DISORDERS, ANTIRHEUMATIC AGENTS

ANTISPASMODICS
SEE MUSCLE RELAXANTS, ANTISPASMODICS

ANTITHROMBIN
SEE BLOOD COAGULATION, ANTITHROMBIN

ANTITHROMBIN I
SEE BLOOD COAGULATION, FIBRIN

ANTITHROMBIN II
SEE BLOOD COAGULATION, HEPARIN CO FACTOR

ANTITHROMBOGENIC SURFACE
SEE BLOOD COAGULATION, ANTITHROMBOGENIC SURFACE

ANTITHYMOCYTIC SERA
SEE IMMUNITY, IMMUNOSUPPRESSION, ALLOANTISERA, ANTILEUKOCYTIC

ANTITHYROID COMPOUNDS
SEE THYROID ANTAGONISTS

ANTITOXINS
SEE IMMUNOLOGY, ANTITOXINS

ANTITRYPSIN DEFICIENCY
SEE METABOLIC DISORDERS (INBORN), ANTITRYPSIN DEFICIENCY

ANTITRYPSIN INHIBITORS
SEE ENZYME INHIBITORS, TRYPSIN INHIBITORS, ANTITRYPSIN

ALPHA-1-ANTITRYPSIN INHIBITORS
SEE ENZYME INHIBITORS, TRYPSIN INHIBITORS, ANTITRYPSIN

ANTIVIRAL AGENTS
SEE COMMUNICABLE DISEASE CONTROL AGENTS, ANTIVIRAL

ANTIVIRAL ANTIBODIES
SEE IMMUNOLOGY, ANTIBODIES VIRAL

ANTIVITAMINS
SEE VITAMIN ANTAGONISTS

ANURIA
SEE KIDNEY DISORDERS, ANURIA

ANXIETY
SEE PSYCHOLOGY, EMOTIONS, ANXIETY

AORTA
SEE CARDIOVASCULAR SYSTEM, ARTERIES, AORTA

AORTA COARCTATION
SEE CARDIOVASCULAR DISORDERS, AORTA OBSTRUCTIONS, AORTA COARCTATION

AORTA DISORDERS (GENERAL)
SEE CARDIOVASCULAR DISORDERS, AORTA DISORDERS (GENERAL)

AORTA OBSTRUCTION
SEE CARDIOVASCULAR DISORDERS, AORTA OBSTRUCTIONS

AORTIC ANEURYSM
SEE CARDIOVASCULAR DISORDERS, AORTIC ANEURYSM

AORTIC BALLOON PUMPING
SEE HEART PROSTHESIS, AUXILIARY, AORTIC BALLOON PUMPING

AORTIC BODY
SEE NERVOUS SYSTEM, PARAGANGLIA, AORTIC BODY

AORTIC INSUFFICIENCY
SEE HEART DISORDERS, VALVULAR INSUFFICIENCY, AORTIC INSUFFICIENCY

AORTIC VALVE
SEE HEART, VALVES, AORTIC VALVE

AORTIC VALVE DISORDERS
SEE HEART DISORDERS, VALVULAR, AORTIC VALVE DISORDERS

AORTIC VALVE STENOSIS
SEE HEART DISORDERS, VALVULAR, AORTIC VALVE STENOSIS

APES
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*

APC AGENTS
SEE VIRUSES, ADENOVIRUSES

APLASTIC ANEMIA
SEE BLOOD AND RE DISORDERS, ANEMIA APLASTIC

APLASTIC ANEMIA CONGENITAL
SEE BLOOD AND RE DISORDERS, ANEMIA APLASTIC CONGENITAL

APNEA
SEE RESPIRATORY FUNCTION, APNEA

APOENZYMES
SEE ENZYMES, APOENZYMES

APOPLEXY
SEE CEREBROVASCULAR DISORDERS, STROKE

APPENDAGES
SEE SKELETAL SYSTEM, LIMB

APPETITE DEPRESSANTS
SEE NUTRIENT INTAKE ACTIVITY, APPETITE DEPRESSANTS

APPETITE REVERSING FACTOR, PITUITARY
SEE LIPID MOBILIZING FACTORS PITUITARY

APPLIED PHYSIOLOGY AND ORTHOPEDICS STUDY SECTION
SEE PHYSIOLOGY (APPLIED) AND ORTHOPEDICS STUDY SECTION

APPOINTMENTS AND VISITS (PATIENTS)
SEE HEALTH CARE (SERVICES)(RESOURCES) UTILIZATION, APPOINTMENTS VISITS

AQUATIC BIOLOGY
SEE WATER ENVIRONMENT, AQUATIC BIOLOGY

AQUATIC ORGANISMS, FRESH WATER
SEE WATER ENVIRONMENT, AQUATIC ORGANISMS, FRESH WATER*

AQUEOUS HUMOR
SEE EYE, AQUEOUS HUMOR

AQUEOUS SOLUTIONS
SEE PHYSICAL PROPERTIES, SOLUTIONS, AQUEOUS

ARA-C
SEE PYRIMIDINE NUCLEOSIDES, CYTOSINE NUCLEOSIDES, CYTOSINE ARABINOSIDE

ARACHIDONIC ACID
SEE FATTY ACIDS, ARACHIDONIC ACID

ARACHNIDISM
SEE TOXICOLOGY, ANIMAL POISONS, ARTHROPOD, SPIDER

ARACHNODACTYLY
SEE METABOLIC DISORDERS INBORN, MARFAN SYNDROME

ARBOVIRUSES (GENERAL)
SEE VIRUSES, ARBOVIRUSES (GENERAL)

ARD AGENTS
SEE VIRUSES, ADENOVIRUSES

AREA POSTREMA
SEE BRAIN, MEDULLA OBLONGATA, AREA POSTREMA

AREAWIDE MEDICAL PLANNING
SEE HEALTH CARE (SERVICES)(RESOURCES)PLANNING, REGIONAL MEDICAL PLANNING

ARENAVIRUSES
SEE VIRUSES, ARENAVIRUSES

ARGENTAFFINOMA
SEE NEOPLASMS OF NERVOUS SYSTEM, CARCINOID

ARGININE
SEE DIAMINO ACIDS, ARGININE

ARGININE ESTERASE
SEE CARBOXYLIC ESTER HYDROLASES, ARGININE ESTERASE

ARGININE VASOPRESSIN
SEE PITUITARY-DIENCEPHALON HORMONES, VASOPRESSIN, ARGININE VASOPRESSIN

ARM
SEE SKELETAL SYSTEM, LIMB, ARM

AROUSAL
SEE PSYCHIC ACTIVITY LEVEL, AROUSAL

ARRHYTHMIA, CARDIAC
SEE HEART DISORDERS, ARRHYTHMIA

ARRHYTHMIC AGENTS
SEE CARDIOVASCULAR AGENTS, ARRHYTHMIC AGENTS

ARTERENOL
SEE PHENYLALKYLAMINES, CATECHOLAMINES, NOREPINEPHRINE

ARTERIAL FIBROSIS
SEE HEART DISORDERS, CORONARY FIBROSIS

ARTERIAL INFUSIONS
SEE DOSAGE AND ROUTE, INFUSIONS ARTERIAL

ARTERIAL OCCLUSIONS
SEE CARDIOVASCULAR DISORDERS, ARTERIAL OCCLUSIONS

ARTERIES
SEE CARDIOVASCULAR SYSTEM, ARTERIES

ARTERIAL STENOSIS
SEE CARDIOVASCULAR DISORDERS, ARTERIAL STENOSIS

ARTERIOLES
SEE CARDIOVASCULAR SYSTEM, ARTERIOLES

ARTERIOSCLEROSIS
SEE CARDIOVASCULAR DISORDERS, ARTERIOSCLEROSIS

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

ARTERIOVENOUS ANASTOMOSIS NORMAL
SEE CAROIOVASCULAR SYSTEM, ARTERIDVENOUS ANASTOMOSIS NORMAL

ARTERIOVENOUS SHUNTS ABNORMAL
SEE CARDIOVASCULAR OISOROERS, ARTERIOVENOUS SHUNTS ABNORMAL

ARTERIOVENOUS SHUNTS SURGICAL (GENERAL)
SEE CARDIOVASCULAR SURGERY, CAROIOVASCULAR SHUNTS, ARTERIOVENOUS (GENERAL)

ARTERITIS
SEE CAROIOVASCULAR OISOROERS, ARTERITIS

ARTHRITIS
SEE SKELETAL DISDRDERS, ARTHRITIS

ARTHRITIS, RHEUMATOID
SEE SKELETAL OISOROERS, ARTHRITIS, RHEUMATOIO

ARTHRITIS AND METABOLIC DISEASES PROGRAM PROJECT COMMITTEE
R01HL-19082-01 Hypoxia-induced relaxation of vascular smooth muscle

ARTHROPOD BITES, STINGS, VENOMS
SEE TOXICOLOGY, ANIMAL POISONS, ARTHROPOO

ARTHROPOD-BORNE VIRUSES (GENERAL)
SEE VIRUSES, ARBOVIRUSES (GENERAL)

ARTHROPODS, CRUSTACEANS*
** P01HL-07896-15 0060 Environmental biomedical research program - Effect of pressure on development of marine crustacean larvae

ARTHROPODS, INSECTS, DIPTERA, CULICIDS, MOSQUITOES*
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)

ARTIFICIAL BLOOD
SEE BLOOO SUBSTITUTES

ARTIFICIAL INTELLIGENCE
SEE COMPUTER, ARTIFICIAL INTELLIGENCE, PATTERN RECOGNITION ANO CONTROL SYSTEMS

ARTIFICIAL KIDNEY
SEE KIONEY PROSTHESIS, ARTIFICIAL KIDNEY

ARTIFICIAL LUNG
SEE RESPIRATORY SYSTEM PROSTHESIS, PROSTHETIC LUNG

ARTIFICIAL LUNG, MECHANICAL
SEE RESPIRATORY ASSIST ANO OXYGEN ADMINISTRATION, RESPIRATORS

ARTIFICIAL RESPIRATION
SEE RESPIRATORY ASSIST ANO OXYGEN AOMINISTRATION, ARTIFICIAL RESPIRATION

ARTIFICIAL TISSUES
SEE PROSTHETIC ORGANS ANO TISSUES

ARYL AMINO ACIDS
SEE CYCLIC AMINO ACIOS

ARYL HYDROCARBON HYDROXYLASE
SEE OXYGENASES, HYOROXYLASES, ARYL HYOROCARBON HYOROXYLASE

ASBESTOS
SEE SILICATES, ASBESTOS

ASCARIS
SEE HELMINTHS, NEMATDOES, ASCARIS

ASCHOFF BODIES
SEE HEART OISORDERS, MYDCARDITIS

ASCITES
SEE BOOY CAVITY OISORDERS, PERITONEAL EFFUSIONS, ASCITES

ASCITES TUMORS
SEE NEDPLASMS, ASCITES TUMORS

ASCORBIC ACID, ASCORBATE
SEE VITAMIN C

ASCORBIC ACID DEFICIENCY
SEE NUTRITIDNAL ABNDRMALITIES, HYPOVITAMINOSIS C

ASPARAGINE
SEE DICARBOXYLIC AMIND ACIOS, ASPARAGINE

ASPARTASE
SEE AMMONIA-LYASES, ASPARTASE

ASPARTATE TRANSAMINASE
SEE AMINOTRANSFERASES, ASPARTATE TRANSAMINASE

ASPARTATE TRANSCARBAMYLASE
SEE TRANSCARBAMYLASES, ASPARTATE TRANSCARBAMYLASE

ASPARTIC ACID
SEE OICARBOXYLIC AMINO ACIDS, ASPARTIC ACIO

ASPERGILLOSIS
SEE MYCOSES, ASPERGILLOSIS

ASPHYXIA, ACCIDENTAL
SEE INJURIES, ACCIDENTS, SUFFDCATION

ASPIRATION PNEUMONIA
SEE RESPIRATORY OISORDERS, PNEUMONIA ASPIRATION

ASPIRIN
SEE PHENYLCARBOXYLATES, SALICYLATES, ACETYL-

ASSAY
SEE BIOASSAY*

ASSISTED CIRCULATION
SEE CARDIDVASCULAR SURGERY, CIRCULATORY ASSIST

ASSOCIATIONS, HEALTH AND SCIENTIFIC
SEE HEALTH ANO SCIENTIFIC ORGANIZATIONS

ASTHMA
SEE HYPERSENSITIVITY, RESPIRATORY HYPERSENSITIVITY, ASTHMA

ASYMMETRIC SEPTAL HYPERTROPHY
SEE CONGENITAL ABNORMALITIES, HEART OEFECTS, ASYMMETRIC SEPTAL HYPERTROPHY

ATARAXIC DRUGS
SEE PSYCHOPHARMACOLOGICAL AGENTS, TRANQUILIZERS

ATELECTASIS
SEE RESPIRATORY DISDROERS, ATELECTASIS

ATELES
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIOS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*

ATHEROSCLEROSIS
SEE CAROIOVASCULAR OISOROERS, ARTERIOSCLEROSIS, ATHEROSCLEROSIS

ATLASES
SEE PUBLICATIONS, ATLASES

ATMOSPHERE
SEE ENVIRONMENT, ATMOSPHERE (WEATHER)

ATMOSPHERIC PRESSURE
SEE ENVIRONMENT, ATMOSPHERIC PRESSURE

ATOMIC ABSORPTION SPECTROMETRY
SEE CHEMISTRY, ANALYTICAL METHOOS, SPECTROMETRY, ATOMIC ABSORPTION*

ATOMIC ORBITALS
SEE ELECTRONIC SPECTRA, ATOMIC ORBITALS

ATOPY
SEE HYPERSENSITIVITY, ATOPY

ATP
SEE PURINE NUCLEOTIDES, AOENINE NUCLEOTIOES, ATP

ATP:AMP PHOSPHOTRANSFERASE
SEE PHOSPHOTRANSFERASES, ATP:AMP PHOSPHOTRANSFERASE

ATPASE
SEE PHOSPHATASES, AOENOSINE TRIPHOSPHATASE

ATP:CREATINE PHOSPHOTRANSFERASE
SEE PHOSPHOTRANSFERASES, ATP:CREATINE PHOSPHOTRANSFERASE

ATP:DIGLYCERIDE PHOSPHOTRANSFERASE
SEE PHOSPHOTRANSFERASES, ATP:DIGLYCERIDE PHOSPHOTRANSFERASE

ATP:D-FRUCTOSE-6-PHOSPHATE 1-PHOSPHOTRANSFERASE
SEE PHOSPHOTRANSFERASES, ATP:D-FRUCTOSE-6-PHOSPHATE 1-PHOSPHOTRANSFERASE

ATP:D-3-PHOSPHOGLYCERATE 1-PHOSPHOTRANSFERASE
SEE PHDSPHOTRANSFERASES, ATP:D-3-PHOSPHOGLYCERATE 1-PHOSPHOTRANSFERASE

ATP PHOSPHOHYDROLASE
SEE PHOSPHATASES, AOENOSINE TRIPHOSPHATASE

ATP:PHOSPHORYLASE PHOSPHOTRANSFERASE
SEE PHDSPHDTRANSFERASES, ATP:PHOSPHORYLASE PHOSPHOTRANSFERASE

ATP:PROTEIN PHOSPHOTRANSFERASE
SEE PHOSPHOTRANSFERASES, ATP:PROTEIN PHDSPHOTRANSFERASE

ATP:THYMIDINE 5-PHOSPHOTRANSFERASE
SEE PHOSPHOTRANSFERASES, ATP:THYMIOINE 5-PHOSPHOTRANSFERASE

ATRIA
SEE HEART, ATRIA

ATRIAL FIBRILLATION
SEE HEART OISOROERS, ARRHYTHMIA, ATRIAL FIBRILLATION

ATRIOVENTRICULAR BLOCK
SEE HEART DISDROERS, ARRHYTHMIA, HEART BLOCK, ATRIOVENTRICULAR

ATRIOVENTRICULAR NODE
SEE HEART, CONDUCTION SYSTEM, ATRIOVENTRICULAR NOOE

ATRIUM
SEE HEART, ATRIA

ATROPINE
SEE TRDPANES, ATROPINE

ATROPINESTERASE
SEE CARBOXYLIC ESTER HYOROLASES, CARBOXYLESTERASE

ATTENTION
SEE PSYCHIC ACTIVITY LEVEL, ATTENTION

ATTITUDE TO HEALTH AND HEALTH PROBLEMS
SEE PSYCHOLOGY, ATTITUDE TO HEALTH AND HEALTH PROBLEMS

ATTITUDES
SEE PSYCHOLOGY, ATTITUOES (AND RELATEO)

ATTITUDES OF PATIENT CARE PERSONNEL
SEE HEALTH CARE SERVICES, PATIENT CARE PERSONNEL ATTITUOES

ATYPICAL PNEUMONIA (PPLO)
SEE RESPIRATORY OISORDERS, PNEUMONIA MYCOPLASMAL (PPLO)

AUDIOMETRY
SEE EAR OISOROERS DIAGNOSIS, HEARING TESTS, AUOIOMETRY*

AUDIOVISUAL AIDS
SEE EDUCATION, AUOIOVISUAL AND OTHER TRAINING AIDS

AUDITORY CORTEX
SEE BRAIN, AUOITORY CORTEX

AUDITORY THRESHOLDS
SEE EAR, HEARING, AUDITORY THRESHOLD

AURICLES, HEART
SEE HEART, ATRIA

AUSTRALIAN ANTIGEN (AUA)
SEE IMMUNOLOGY, ANTIGENS VIRAL, HEPATITIS B ANTIGEN (HBAG)

AUTOANTIBODIES
SEE IMMUNOPATHOLOGY, AUTOANTIBOOIES

AUTOANTIGENS
SEE IMMUNOPATHOLOGY, AUTOANTIGENS

AUTOFLUOROSCOPY
SEE RAOIOGRAPHY, FLUOROSCOPY, AUTOFLUOROSCOPY*

AUTOGENIC CONDITIONING (TRAINING)
SEE PSYCHOLOGY, CONOITIONING, AUTOGENIC ANO INTERNAL CONTROL

AUTOIMMUNE DISORDERS
SEE IMMUNOPATHOLOGY, AUTOIMMUNE OISOROERS

AUTOIMMUNE HEMOLYTIC ANEMIA
SEE BLOOO AND RE OISOROERS, ANEMIA HEMOLYTIC AUTOIMMUNE

AUTOMATED ANALYTICAL PROCESSING AND CONTROL SYSTEMS
SEE BIDMEOICAL SYSTEMS AUTOMATEO

AUTOMATED BIOMEDICAL FACILITIES
SEE BIOMEOICAL SYSTEMS AUTOMATEO

AUTOMATED HEALTH RECORDS (SYSTEMS)
SEE HEALTH RECORDS (SYSTEMS) AUTOMATEO

AUTOMATIC DATA PROCESSING
SEE INFORMATION AND CDMMUNICATIDN, AUTOMATIC DATA PROCESSING

AUTONOMIC AGENTS
SEE NEUROPHARMACDLOGICAL AGENTS, AUTONOMIC AGENTS

AUTONOMIC CONDITIONING
SEE PSYCHOLOGY, CONDITIONING, AUTOGENIC AND INTERNAL CDNTROL

AUTONOMIC GANGLIA
SEE NERVOUS SYSTEM AUTONOMIC, AUTONOMIC GANGLIA

AUTONOMIC NERVOUS DYSFUNCTION FAMILIAL
SEE CONGENITAL ABNORMALITIES, NEUROLOGICAL, OYSAUTONOMIA FAMILIAL

AUTONOMIC NERVOUS SYSTEM
SEE NERVOUS SYSTEM AUTONOMIC

AUTONOMIC NERVOUS SYSTEM DISORDERS
SEE NERVOUS OISDROERS AUTONDMIC (GENERAL)

AUTONOMIC REFLEXES
SEE NERVOUS SYSTEM AUTONOMIC, AUTONOMIC REFLEXES

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** [illegible] significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

AUTONOMY, EMOTIONAL
SEE PSYCHOLOGY, EMOTIONAL DEPENDENCY INDEPENDENCY

AUTO-OXIDATION
SEE OXIDATION REDUCTION, AUTO OXIDATION

AUTOPHAGY
SEE CELL DESTRUCTION, AUTOPHAGY

AUTOPROTHROMBIN I
SEE BLOOD COAGULATION, FACTOR VII

AUTOPROTHROMBIN II
SEE BLOOD COAGULATION, FACTOR IX

AUTOPROTHROMBIN III
SEE BLOOD COAGULATION, FACTOR X

AUTORADIOGRAPHY
SEE RADIOAUTOGRAPHY*

AUTOSENSITIZATION
SEE IMMUNOPATHOLOGY, AUTOIMMUNE DISORDERS

AUTOSOMAL RECESSIVE CONDITIONS
SEE GENETIC DISORDERS, AUTOSOMAL RECESSIVE CONDITIONS

AUTOTRANSFUSION
SEE BLOOD TRANSFUSION, AUTOTRANSFUSION

AUTOTRANSPLANTATION
SEE TISSUE COMPATIBILITY-TRANSPLANT, TRANSPLANTATION AUTOLOGOUS

AUXILIARY HEALTH (CARE) PERSONNEL
SEE HEALTH SCIENCES PROFESSIONS, HEALTH (CARE) PERSONNEL ALLIED

AUXILIARY HEART PROSTHETIC
SEE HEART PROSTHESIS, AUXILIARY

AUXILIARY MENTAL HEALTH PERSONNEL
SEE MENTAL HEALTH PERSONNEL ADJUNCT

AUXILIARY VENTRICLE, BALLOON PUMP AORTIC
SEE HEART PROSTHESIS, AUXILIARY, AORTIC BALLOON PUMPING

A-V NODE
SEE HEART, CONDUCTION SYSTEM, ATRIOVENTRICULAR NODE

AVAILABILITY AND DISTRIBUTION OF HEALTH CARE SERVICES AND RESOURCES
SEE HEALTHCARE (SERVICES)(RESOURCES) UTILIZATION, AVAILABILITY AND DISTRIBUTION OF SERVICES AND RESOURCES

AVIAN NEUROLYMPHOMATOSIS
SEE NERVOUS DISORDERS CENTRAL, MAREK'S DISEASE

AVIATION MEDICINE
SEE ENVIRONMENT, EXTRATERRESTRIAL, SUPRATERRESTRIAL

AVOIDANCE CONDITIONING
SEE PSYCHOLOGY, CONDITIONING, AVOIDANCE

AXONS
SEE NERVOUS SYSTEM, NEURONS, AXONS

AXOPLASMIC FLOW
SEE NERVOUS SYSTEM, NEURONS, AXOPLASMIC FLOW

10-AZAANTHRACENE
SEE ACRIDINES

1-AZABICYCLO(2.2.2)OCTANES
SEE QUINUCLIDINES

AZACYTIDINE
SEE TRIAZINE NUCLEOSIDES, AZACYTIDINE

AZATHIOPRINE
SEE THIOPURINES, 6-MERCAPTOPURINE, AZATHIOPRINE

AZEPINES, DESIPRAMINE
R01HL-15758-06 Catecholamine release in the heart (dogs)
R01HL-16436-04 Role of calcium and thyroxine in heart function (rats)

AZEPINES, DIAZEPAM
P01HL-12738-10 0042 Physiologic pharmacology and its clinical applications - Centrogenic cardiac arrhythmias (cats)
P01HL-14388-07 0159 Regulation of the circulation in pathological states - Early drug and diet interventions and blood pressure development (rats)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)

AZEPINES, DIAZEPINES
P60HL-17269-04 0016 National heart and blood vessel research and demonstration center - New analytical methodology for atherosclerosis studies

AZEPINES, DIAZEPINES, CHLORDIAZEPOXIDE
P01HL 12738 10 0042 Physiologic pharmacology and its clinical applications Centrogenic cardiac arrhythmias (cats)

AZEPINES, DIAZEPINES, FLURAZEPAM
P01HL 14985-07 0009 Adaptation to hypoxia Influence of chemosensitivity on control of breathing during sleep (human, dogs)

AZEPINES, IMIPRAMINE
R23HL 19573 01 Studies on pulmonary serotonin (mice)
R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)

AZETIDINE
R01HL-19136-03 Mucopolysaccharide metabolism in cardiac anomalies (rats)

AZIDES
R01HL-12524-10 Reaction of hemoglobin with ligands and antibodies (human, carp)
R01HL-16860-05 Mossbauer studies of respiratory hemoproteins

AZO (AZINO) COMPOUNDS
SEE ALSO AZIDES
R01HL-13412-17 Synthetic oxygen carriers

AZO COMPOUNDS, HYDRAZINES, ISONIAZID
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)

AZO COMPOUNDS, HYDRAZINES, PHENELZINE
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)

AZO COMPOUNDS, HYDRAZINES, PHENYLHYDRAZINES
R01HL-19532-01 Oxygen toxicity in the red cell (human)

AZO COMPOUNDS, HYDRAZINOPHTHALAZINE
** P01HL-06312-17 0016 Surgical cardiology - Effect of hydralazine on infarct size following coronary occlusion (human)
P01HL-06835-17 0037 Cardiovascular disease - Cardiac hypertrophy in spontaneously hypertensive rat
P01HL-06835-17 0053 Cardiovascular disease - Vasodilating drugs (human)
P01HL-06835-17 0057 Cardiovascular disease - Studies on cardiac hypertrophy
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
P01HL-12738-10 0111 Physiologic pharmacology and its clinical applications - Cardiovascular pharmacology (dogs)
P01HL-14388-07 0223 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (rats)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
P50HL-19362-02 0010 A/S SCOR Atherosclerosis in nonhuman primates - Antihypertensive therapy--Atherogenesis in experimental hypertension (baboon)
R01HL-19668-03 Biochemistry of lung connective tissue (rats)
P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)

AZO DYES
SEE AZO (AZINO) COMPOUNDS

AZOPROTEINS
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)

BABOONS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS (CATARRHINES)*

BACILLUS CALMETTE-GUERIN
SEE BACTERIA, ACTINOMYCETALES, BACILLUS CALMETTE-GUERIN*

BACILLUS PILIFORMIS
SEE BACTERIA, GRAM-NEGATIVE*

BACITRACIN
SEE ANTIBIOTICS, BACITRACIN

BACTEREMIA
SEE BLOOD TOXICOLOGY, BACTEREMIA-SEPTICEMIA

BACTERIA, ACID-FAST BACTERIA*
R01HL-07502-13 Phytochemistry of the genus thalictrum (dogs, plants)

BACTERIA, ACTINOMYCETALES, BACILLUS CALMETTE-GUERIN*
R01HL 21120 02 Membrane dynamics in alveolar macrophages (rabbits)
R01HL 22301 01 Immunogenetics of chronic pulmonary inflammation (mice)

BACTERIA, ACTINOMYCETALES, MYCOBACTERIUM TUBERCULOSIS*
SEE ALSO BACTERIAL DISEASES, ACTINOMYCETALES INFECTIONS, TUBERCULOSIS
** R01HL 21095 02 Enzymes of M tuberculosis and obstructive lung disease (human, rodents)

BACTERIA, ACTINOMYCETALES, THERMOPHILIC ACTINOMYCETES*
P50HL 15389 07 0011 Pulmonary SCOR Hypersensitivity pneumonitis Animal model-Hypersensitivity pneumonitis in rabbits
** P50HL-15389 07 0015 Pulmonary SCOR Hypersensitivity pneumonitis - Fractionation and characterization of thermophilic Actinomycete antigens
P50HL-15389 07 0019 Pulmonary SCOR Hypersensitivity pneumonitis - Microbiology core (human, animal)

BACTERIA, ENTERIC (GENERAL)*
SEE ALSO BACTERIA, PSEUDOMONADALES, PSEUDOMONAS AERUGINOSA*
SEE ALSO BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS, ENTEROCOCCUS GROUP*
** R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
** P50HL-19362-02 0009 A/S SCOR Atherosclerosis in nonhuman primates - Cholesterol metabolism and intestinal microflora (baboon)

BACTERIA, ENTERIC, RUMEN BACTERIA*
** R01HL-13645-11 Tryptophan-induced pulmonary emphysema (cattle, goats, rabbits)

BACTERIA, ENTEROBACTERIACEAE, PROTEUS*
R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)

BACTERIA, ENTEROBACTERIACEAE, SERRATIA MARCESCENS*
** P01HL-16769-05 0004 Pathobiologic and host defense reactions in the lung - Pathogenesis of Pseudomonas and Serratia pneumonias (rabbits)

BACTERIA, GRAM-NEGATIVE*
SEE ALSO BACTERIA, HALOBACTERIACEAE*
R01HL-07502-13 Phytochemistry of the genus thalictrum (dogs, plants)

BACTERIA, HALOBACTERIACEAE*
** P01HL-06285-18 0211 Cardiovascular-respiratory physiology and biochemistry - Purple membrane of Halobacteria
** P01HL-06285-18 0213 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gas vacuole membrane (Halobacterium)

BACTERIA, MICROCOCCACEAE, STAPHYLOCOCCUS*
SEE ALSO BACTERIAL DISEASES, STAPHYLOCOCCAL INFECTIONS
R01HL-16646-05 Pathobiology of thromboembolic disorders (human)
P01HL-16769-05 0004 Pathobiologic and host defense reactions in the lung - Pathogenesis of Pseudomonas and Serratia pneumonias (rabbits)

BACTERIA, MICROCOCCACEAE, STAPHYLOCOCCUS AUREUS*
R01HL-20314-02 Host defense against S pneumoniae in sickle cell disease (human)
R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)

BACTERIA, MICROCOCCACEAE, STAPHYLOCOCCUS EPIDERMIDIS*
R01HL-17751-03 Experimental endocarditis (rabbits)

BACTERIA, MYCOPLASMATALES, MYCOPLASMA*
R01HL-19741-03 Murine CRD--A model of chronic pulmonary inflammation (mice, rats)

BACTERIA, MYCOPLASMATALES, MYCOPLASMA PNEUMONIAE*
SEE ALSO RESPIRATORY DISORDERS, PNEUMONIA MYCOPLASMAL (PPLO)
P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLD

BACTERIA, NEISSERIACEAE, NEISSERIA MENINGITIDIS*
P01HL-06350-17 0019 Hemostasis research program project - Microcirculation (human, rats, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

BACTERIA, PSEUDOMONADALES, PSEUDOMONAS*

** R01HL-13885-08 0007 Cystic fibrosis and pulmonary disease - Alveolar macrophage defense mechanism (human, rabbits)

BACTERIA, PSEUDOMONADALES, PSEUDOMONAS AERUGINOSA*

P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)
P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
R01HL-13885-08 0006 Cystic fibrosis and pulmonary disease - Cell mediated immunity and Pseudomonas infections in cystic fibrosis (human)
R01HL-13885-08 0007 Cystic fibrosis and pulmonary disease - Alveolar macrophage defense mechanism (human, rabbits)
R01HL-13885-08 0008 Cystic fibrosis and pulmonary disease - Pseudomonas specific activation of alveolar macrophages (human, rabbits)
** P01HL-16769-05 0004 Pathobiologic and host defense reactions in the lung - Pathogenesis of Pseudomonas and Serratia pneumonias (rabbits)
P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung - Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
P50HL-19153-02 0003 SCOR--Pulmonary edemas--Etiology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
** R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)

BACTERIA, STREPTOCOCCACEAE*

P50HL-14218-07 0005 Pulmonary SCOR--Newborn lung center - Prevention of infection in infants with respiratory distress (human)

BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS*

SEE ALSO BACTERIAL DISEASES, STREPTOCOCCAL INFECTIONS
** R01HL-03919-20 The cell suface of streptococci (rats, human)

BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS, ENTEROCOCCUS GROUP*

P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man
R01HL-17751-03 Experimental endocarditis (rabbits)

BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS GROUP A*

SEE ALSO IMMUNOLOGY, ANTIGENS BACTERIAL, STREPTOKINASE
R01HL-01803-23 0001 Arteriosclerosis, glomerulonephritis, rheumatic fever - Post-streptococcal glomerulonephritis (rabbit)
P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
** R01HL-19234-03 Streptococci and heart--Cell-mediated cross-reaction (mice)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)

BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS GROUP B*

P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)

BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS GROUP C*

P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man

BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS PNEUMONIAE*

SEE ALSO VACCINES, BACTERIAL, PNEUMOCOCCAL VACCINE
P01HL-06350-17 0019 Hemostasis research program project - Microcirculation (human, rats, rabbits)
P60HL-15169-05 0009 Support for center for sickle cell disease - Infections in sickle cell anemia (human)
** R01HL-20314-02 Host defense against S pneumoniae in sickle cell disease (human)
R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)

BACTERIAL ANTIBODIES

SEE IMMUNOLOGY, ANTIBODIES BACTERIAL

BACTERIAL ANTIGENS

SEE IMMUNOLOGY, ANTIGENS BACTERIAL

BACTERIAL ANTITOXINS

SEE IMMUNOLOGY, ANTITOXINS

BACTERIAL DISEASES

SEE ALSO BLOOD TOXICOLOGY, BACTEREMIA-SEPTICEMIA
SEE ALSO COMMUNICABLE DISEASE CONTROL AGENTS, ANTIBACTERIAL
SEE ALSO IMMUNOLOGY, ANTIBODIES BACTERIAL
SEE ALSO IMMUNOLOGY, ANTIGENS BACTERIAL
SEE ALSO NERVOUS DISORDERS CENTRAL, MENINGITIS BACTERIAL
SEE ALSO RESPIRATORY DISORDERS, PNEUMONIA BACTERIAL
M P01HL-06314-17 Immunologic mechanisms in cardiovascular disease
P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)
** P50HL-14218-07 0005 Pulmonary SCOR--Newborn lung center - Prevention of infection in infants with respiratory distress (human)
** P60HL-15169-05 0009 Support for center for sickle cell disease - Infections in sickle cell anemia (human)
** P60HL-15996-06 0003 Cincinnati comprehensive sickle cell center - Prophylactic penicillin in treatment of sickle cell anemia (human)
P60HL-15996-06 0005 Cincinnati comprehensive sickle cell center - Factors precipitating crises (human)
R01HL-19774-03 Pathogenesis of chronic lung disease (rats, mice, bacteria)
** R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)

BACTERIAL DISEASES, ACTINOMYCETALES INFECTIONS, TUBERCULOSIS

SEE ALSO BACTERIA, ACTINOMYCETALES, MYCOBACTERIUM TUBERCULOSIS*
P50HL-14153-07 0004 Johns Hopkins Lung Center--Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)

BACTERIAL DISEASES, CYTOPATHOGENIC EFFECT BACTERIAL

** R01HL-01803-23 0001 Arteriosclerosis, glomerulonephritis, rheumatic fever - Post-streptococcal glomerulonephritis (rabbit)
R01HL-19741-03 Murine CRO--A model of chronic pulmonary inflammation (mice, rats)
R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
R01HL-20170-02 Pulmonary infection in splenectomized animals (mice)
** R01HL-20963-01 Experimental lung abscess (rabbits)
** R01HL-22520-01 Pulmonary vascular response to group B Streptococci (human, mammals)

BACTERIAL DISEASES, STAPHYLOCOCCAL INFECTIONS

SEE ALSO BACTERIA, MICROCOCCACEAE, STAPHYLOCOCCUS*
SEE ALSO SKELETAL DISORDERS, OSTEOMYELITIS
** R01HL-22110-02 Healing complications in vascular grafting (dogs)

BACTERIAL DISEASES, STREPTOCOCCAL INFECTIONS

SEE ALSO BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS*
** R01HL-01803-23 0001 Arteriosclerosis, glomerulonephritis, rheumatic fever - Post-streptococcal glomerulonephritis (rabbit)
R01HL-01803-23 0018 Arteriosclerosis, glomerulonephritis, rheumatic fever - Fetal immunization in pathogenesis of glomerulonephritis in adult (rabbit)
** R01HL-01803-23 0019 Arteriosclerosis, glomerulonephritis, rheumatic fever - Pathogenesis of rheumatic heart disease (rabbit)
** P01HL-06314-17 0057 Immunologic mechanisms in cardiovascular disease - Antigens in cardiovascular disease (human)
P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man
** P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
P60HL-15160-07 0014 Center for sickle cell disease - Replacement therapy of opsonin deficiency in sickle cell anemia (children)
** P60HL-15162-07 0021 Comprehensive sickle cell center - Pneumococcal vaccine in sickle cell disease (children)
** R01HL-20170-02 Pulmonary infection in splenectomized animals (mice)
** P60HL-20985-01 0002 Northern California sickle cell center - Immunization with polyvalent pneumococcal polysaccharide vaccine (human)
** R01HL-22520-01 Pulmonary vascular response to group B Streptococci (human, mammals)
P60HL-23282-01 0002 Comprehensive hospital/community sickle cell center - Clinical evaluation of alternate pathaway of compliment activation

BACTERIAL DISEASES, STREPTOCOCCAL INFECTIONS, RHEUMATIC FEVER

SEE ALSO HEART DISORDERS, RHEUMATIC HEART DISEASE
R01HL-03919-20 The cell suface of streptococci (rats, human)
** P01HL-06314-17 0057 Immunologic mechanisms in cardiovascular disease - Antigens in cardiovascular disease (human)
P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
R01HL-19234-03 Streptococci and heart--Cell-mediated cross-reaction (mice)
R01HL-19307-03 Problems in prevention of rheumatic heart disease (human)
** R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)

BACTERIAL ENDOCARDITIS

SEE HEART DISORDERS, ENDOCARDITIS BACTERIAL

BACTERIAL MENINGITIS

SEE NERVOUS DISORDERS CENTRAL, MENINGITIS BACTERIAL

BACTERIAL PERMEASES

SEE BIOLOGICAL TRANSPORT, TRANSPORT PROTEINS, PERMEASES

BACTERIAL PNEUMONIA

SEE RESPIRATORY DISORDERS, PNEUMONIA BACTERIAL

BACTERIAL POLYSACCHARIDES

SEE POLYSACCHARIDES, BACTERIAL (GENERAL)

BACTERIAL PROTEINS

SEE PROTEINS, BACTERIAL (GENERAL)

BACTERIAL TOXINS

SEE IMMUNOLOGY, ANTIGENS BACTERIAL, BACTERIAL TOXINS (GENERAL)

BACTERIAL VACCINES

SEE VACCINES, BACTERIAL (GENERAL)

BACTERICIDAL DEFENSES OF BODY (GENERAL)

SEE IMMUNITY, BACTERICIDAL DEFENSES (GENERAL)

BACTERICIDES

SEE COMMUNICABLE DISEASE CONTROL AGENTS, ANTIBACTERIAL

BACTERIOLOGY AND MYCOLOGY STUDY SECTION

** R01HL-17751-03 Experimental endocarditis (rabbits)
** R01HL-19234-03 Streptococci and heart--Cell-mediated cross-reaction (mice)
** R01HL-19307-03 Problems in prevention of rheumatic heart disease (human)
** R01HL-19760-01 Cellular immune responses of the lung (mice, guinea pigs)
** R01HL-19873-03 Pulmonary responses to inhaled antigen (rabbits, guinea pigs)
** R01HL-20314-02 Host defense against S pneumoniae in sickle cell disease (human)
** R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)
** R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)
** R01HL-22257-01 Leukokinesis enhancing factor and lung infections (human, rats)
** R23HL-22823-01 Phagocytic and immune defense mechanisms of the lung (mice)

BACTERIOLYSIS

R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)

BACTERIORHODOPSIN

SEE PIGMENTS, BACTERIAL, BACTERIORHODOPSIN-RETINAL

BACTERIOTROPINS

SEE IMMUNOLOGY, ANTIBODIES, OPSONINS

BALLISTOCARDIOGRAPHY

SEE HEART DISORDERS DIAGNOSIS, BALLISTOCARDIOGRAPHY*

BALLOON PUMPING, AORTIC

SEE HEART PROSTHESIS, AUXILIARY, AORTIC BALLOON PUMPING

BANK, TISSUE

SEE TISSUE RESOURCES, REGISTRIES

BAPN

SEE CYANIDES, AMINOALKYL NITRILES, BAPN

BARBITURATES

SEE PYRIMIDINES, BARBITURATES

BARIUM (COMPOUNDS)

SEE METALS, ALKALINE EARTH METALS, BARIUM

BAROMETRIC DECOMPRESSION

SEE ENVIRONMENT, ATMOSPHERIC PRESSURE, COMPRESSION-DECOMPRESSION

BAROPACER (CAROTID)

SEE HEART PACEMAKERS ELECTRONIC, CAROTID STIMULATORS

BARORECEPTORS

SEE SENSE ORGANS, PRESSORECEPTORS

BARRIER MODEL

SEE BIOLOGICAL TRANSPORT, MEMBRANE MODELS

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

BARTTER'S SYNDROME
SEE METABOLIC DISORDERS INBORN, BARTTER'S SYNDROME

BASEMENT MEMBRANE
SEE MEMBRANE, BASEMENT MEMBRANE

BASEMENT MEMBRANE DISEASE OF LUNG AND KIDNEY
SEE DISEASES, SYNDROMES NOT LISTED ELSEWHERE, GOODPASTURE'S SYNDROME

BASES
SEE ACIDS-BASES, BASES (GENERAL)

BASES (NUCLEOSIDE, NUCLEOTIDE, NUCLEIC ACID)
SEE NUCLEOBASES

BASOPHIL LEUKOCYTES
SEE BLOOD CELLS, LEUKOCYTES, BASOPHILS

BASSEN-KORNZWEIG SYNDROME
SEE METABOLIC DISORDERS INBORN, HYPOLIPOPROTEINEMIAS FAMILIAL, ABETALIPOPROTEINEMIA

BATRACHOTOXIN
SEE TOXICOLOGY, ANIMAL POISONS, BATRACHOTOXIN

BCG
SEE BACTERIA, ACTINOMYCETALES, BACILLUS CALMETTE-GUERIN*

BEDDING FOR ANIMAL CARE
SEE ANIMALS, VETERINARY SCIENCE, ANIMAL CARE

BEHAVIOR
SEE PSYCHOLOGY, BEHAVIOR

BEHAVIOR, ANIMAL
SEE PSYCHOLOGY, BEHAVIOR ANIMAL

BEHAVIOR, MATERNAL
SEE FAMILY, MATERNAL BEHAVIOR

BEHAVIOR ASSESSMENT-MEASUREMENT
SEE PSYCHOLOGICAL TESTS, BEHAVIOR ASSESSMENT-MEASUREMENT*

BEHAVIOR CONTROL
SEE PSYCHOLOGY, BRAIN CONTROL

BEHAVIOR MODIFICATION (PSYCHOTHERAPY)
SEE PSYCHOTHERAPY, BEHAVIOR MODIFICATION

BEHAVIOR PREDICTION
SEE PSYCHOLOGY, BEHAVIOR PREDICTION

BEHAVIOR RATING SCALES
SEE PSYCHOLOGICAL TESTS, BEHAVIOR ASSESSMENT-MEASUREMENT*

BEHAVIOR THERAPY
SEE PSYCHOTHERAPY, BEHAVIOR MODIFICATION

BEHAVIORAL GENETICS
SEE PSYCHOGENETICS-BEHAVIORAL GENETICS

BEHAVIORAL MEDICINE
SEE ALSO HEALTH CARE SERVICES, PATIENT CARE PERSONNEL ATTITUDES
SEE ALSO HEALTH CARE SERVICES, PATIENT-PROFESSIONAL RELATIONS
SEE ALSO PSYCHOLOGY, ATTITUDE TO HEALTH AND HEALTH PROBLEMS
SEE ALSO PSYCHOPHYSIOLOGIC DISORDERS
P01HL-10539-12 0023 Pathophysiology of circulation - The relaxation response and therapy of disease states (human)
P01HL-10539-12 0031 Pathophysiology of circulation - Post myocardial infarction care--Psychological aspects (human)
P01HL-10539-12 0066 Pathophysiology of circulation - Usefulness of relaxation response in industrial settings
P50HL-14236-05 0013 Prevention of premature arteriosclerosis - Patient compliance
P60HL-15158-07 0009 Comprehensive sickle cell center - Counseling and social services
P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies--Dimensions, effectiveness
P60HL-15162-07 0011 Comprehensive sickle cell center - Core program--Genetic counseling and diagnostic screening
P60HL-15999-05 0004 Miami comprehensive sickle cell center - Education, screening and counseling
R25HL-17056-01 Improving patient compliance through nursing action
P60HL-17269-04 0047 National heart and blood vessel research and demonstration center - Evaluation of competency-based educational model
R01HL-17465-04 Beta-thalassemia screening and genetic counseling
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R25HL-18414-03 Hypertension--Family strategies for patient adherence
R25HL-18418-03 Role of a supporting partner in adherence (human)
R25HL-18424-03 Blood pressure education in an industrial setting (human)
R01HL-18814-03 Behavioral tactics for clinical cardiac control (human)
R01HL-18823-02 Physiological correlates of conditioned blood pressure (human)
** R01HL-18907-03 Objective evaluation early after MI and heart surgery (human)
** R01HL-19343-03 Behavioral influences on cardiac contractility (monkeys)
R01HL-19568-03 Hypertension Analysis of drug and behavioral therapies (human)
R01HL-19844-02 Behavioral control of essential hypertension (human)
R01HL-20179-02 Epidemiology of sudden cardiac death among women
R01HL-20910-02 The alternative diet for coronary disease prevention (human)
R01HL-21318-02 Mechanisms of emotions' asthma triggering effect (human)
R01HL-21323-02 Raynaud's disease and temperature self-regulation (human)
R01HL-21426-02 Learned heart rate control (human)
R01HL-21427-02 Behavioral changes in post infarction patients
R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)
** R18HL-21906-01 Stanford five city multifactor risk reduction study
R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)
M R23HL-22345-02 Behavioral cardiovascular compliance strategies
R23HL-22345-02 0001 Behavioral cardiovascular compliance strategies - Long term modification of dietary patterns (human)
R23HL-22345-02 0002 Behavioral cardiovascular compliance strategies - Compliance with antihypertensive medication regimens (human)
** R01HL-22378-01 Psyco-somatic predictors of CHD in adolescence (human)
** R01HL-22514-01 Behavior patterns, stress, and catecholamines
** R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)
** R01HL-22740-01 Behavior and cardiovascular disease--Basic mechanisms (human)
** R01HL-22809-01 Coronary-prone behavior and cardiovascular reactivity (human)
R01HL-22847-01 Test for adherence to diets rich in linoleic acid
** R18HL-22934-01 Behavorial approaches to adolescent hypertension
N01HR-72973-01 Health education and attitudes of family toward asthmatic children
N01HR-72974-01 Self-management systems for asthmatic children

BEHAVIORAL SCIENCES (DEVELOPMENTAL) STUDY SECTION
** R01HL-18589-03 Psychosocial factors and outcome in coronary disease (human)
** R01HL-20655-02 Autonomic predictors of hypertension in children
** R01HL-22021-01 Asthma in families-- Behavior analysis of family interaction pattern
** R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)

BENADRYL
SEE PHENYLALKOXYALKYLAMINES, DIPHENHYDRAMINE

BENCE-JONES PROTEINS
SEE GLOBULINS, MYELOMA GLOBULINS, BENCE-JONES PROTEINS

BENZANTHRACENES
SEE CYCLICS, CARBOPOLYCYCLICS, BENZANTHRACENES

BENZ(E)AZULENES, ACONITINE TYPE
SEE ALKALOIDS, ACONINE TYPE

BENZEDRINE
SEE PHENYLALKYLAMINES, AMPHETAMINE

BENZENE
R23HL-19573-01 Studies on pulmonary serotonin (mice)

BENZOATES
SEE PHENYLCARBOXYLATES, BENZOATES

1,3-BENZODIOXOLES
R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)

BENZOFURANONES, PHTHALIDES, BROMSULPHTHALEIN
P01HL-08899-14 0061 Tolerance to respiratory gases in health and disease - Hepatic oxygenation and secretory functions (rats, dogs)

BENZOIC ACID, BENZOATES
SEE PHENYLCARBOXYLATES, BENZOATES

BENZOPYRANS, XANTHENES, FLUORESCEINS
R01HL-17702-04 Electro-optical dyes as probes of heart excitability

BENZOPYRENES
SEE CYCLICS, CARBOPOLYCYCLICS, BENZOPYRENES

BENZO(B)PYRIDINE
SEE QUINOLINES

BENZO(C)PYRIDINE
SEE QUINOLINES, ISOQUINOLINES

BENZO-ALPHA-PYRONES
R01HL-09163-13 Control mechanisms in hemostasis (human)
** P01HL-11414-11 0033 Thrombosis and atherosclerosis program Human coumarin induced prothrombin
R01HL-14847-07 Mechanism of action of vitamin K and anticoagulants (rats)
R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
P01HL-18576-03 0003 Thrombosis research program project - Biocompatible materials
R01HL-21476-02 Anticoagulant drug absorption interactions (rats)

BENZO-ALPHA-PYRONES, BISHYDROXYCOUMARIN
P01HL-13738-08 0003 Cardiac assist devices and artificial hearts - Pathophysiological effects of the artificial heart (calves)
R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
R01HL-21476-02 Anticoagulant drug absorption interactions (rats)

BENZO-ALPHA-PYRONES, WARFARIN
R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
P01HL-18576-03 0007 Thrombosis research program project Relationships between coagulability and thrombosis (human, animals)
R01HL-18738-02 Prevention of postoperative venous thrombi (human, cattle)
** R01HL-19772-02 Role of warfarin metabolism in antivitamin K activity (rats)

BENZOPYRROLE CARBOXYLIC ACIDS, INDOMETHACIN
P01HL-06835-17 0031 Cardiovascular disease - Synthesis of potent antagonist of pressor action of angiotensin II (animals)
P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
P50HL-14192-08 0003 Specialized center of research in hypertension - Prostaglandins as mediators of renin secretion (human, dog)
P50HL-14214-07 0026 Newborn lung center for hyaline membrane disease - Hemodynamic studies of HMD--Prostaglandins production and blockers (lambs)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
P01HL-14388-07 0225 Regulation of the circulation in pathological states - Release of renal prostaglandins by saluretic-diuretic agents (dogs)
** P01HL-14388-07 0230 Regulation of the circulation in pathological states - Effects of indomethacin in patients with carcinoid syndrome
P01HL-14388-07 0231 Regulation of the circulation in pathological states - Mechansim of cutaneous vasodilatation in Paget's disease of bone
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)
R01HL-16489-04 Renal prostaglandins--Synthesis and function (human, dogs, rats)
R01HL-16496-04 Prostaglandins and renin experimental hypertension (rabbits)
R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
R01HL-17581-03 Patent ductus arteriosus and pulmonary hypertension (dogs)
R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-18979-02 Mechanisms in local regulation of coronary flow (rabbits)
R01HL-19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
R01HL-19218-03 Local regulation of coronary flow by prostaglandins (rabbits)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-22087-02 Humoral mediators of pulmonary inflammation (guinea pigs)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R23HL-22438-01 The etiology of genetic hypertension (rats)
R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
R01HL-22563-02 Prostaglandins, the kidney and hypertension (rats)
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
R01HL-22783-01 Hemodynamic induction of intimal fibromuscular lesion
R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R23HL-22882-01 Modulation by disease of effect of furosemide in man
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

BENZOPYRROLES, INDOCYANINE GREEN

** R01HL-03181-21 0029 Hemodynamics as applied to surgical problems - Indocyanine green clearance for estimation of hepatic blood flow (human)

BENZOPYRROLES, INDOLEAMINES (GENERAL)

SEE ALSO BENZOPYRROLES, SEROTONIN
R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)

BENZOPYRROLES, INDOLES (SEE ALSO APPROPRIATE SPECIFICS UNDER BENZOPYRROLES)

SEE ALSO ALKALOIDS, VINBLASTINE
SEE ALSO ALKALOIDS, VINCA
R01HL-13645-11 Tryptophan-induced pulmonary emphysema (cattle, goats, rabbits)
** R01HL-16471-05 Cardioactive alloyohimbines and related indole alkaloids
R01HL-21540-02 Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs)

BENZOPYRROLES, METHOXYINDOLES

** R01HL-13645-11 Tryptophan-induced pulmonary emphysema (cattle, goats, rabbits)

BENZOPYRROLES, PHYSOSTIGMINE

R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)

BENZOPYRROLES, SEROTONIN

R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
** R01HL-09283-14 Pharmacology of molluscan hearts (also rabbits)
P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
R01HL-11897-11 Pathogenesis of experimental atherosclerosis (rabbits, guinea pigs)
R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
R01HL-13323-08 Intrarenal pressure and renal function (human, dogs)
R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)
P50HL-14147-08 0018 Specialized center of research in thrombosis - Biochemical aspects of platelet function in thrombosis and cell growth (human)
P50HL-14164-07 0044 A/S SCOR--Comparative and experimental atherosclerosis - Cell biology-atherosclerosis project (pigeons)
P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
P01HL-14388-07 0168 Regulation of the circulation in pathological states - Ionic basis of depolarization (rats, tissue culture)
P01HL-14388-07 0178 Regulation of the circulation in pathological states - Structural and functional consequences of denervation (rats)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
** R01HL-17370-03 Synaptic chemistry and cardioregulation in Limulus
P50HL-17667-04 0031 Study of ischemic heart disease - Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey)
R01HL-17711-05 Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs)
R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
P01HL-17812-04 0005 Thrombosis and plasma proteins - In vitro systems of normal platelets, white cells, sera (human)
P01HL-17812-04 0007 Thrombosis and plasma proteins - Blood components--Response to endotoxin (dogs, baboons)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)
R01HL-18502-03 Enzymatic regulation of platelet function (human)
P01HL-18576-03 0001 Thrombosis research program project - Platelet damage from physical forces and artificial surfaces (human)
R01HL-18584-03 Effects of physical forces on platelets (human)
P50HL-18828-03 0004 Specialized center of research in thrombosis - Membrane changes in platelet physiology--Role of complement (mice, human)
R01HL-18936-02 Heart preservation and transplantation studies (rat)
P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)
P01HL-18974-03 0011 Experimental neurogenic hypertension program - Biochemistry and regulation of brain tryptophane hydroxylase (rats)
P50HL-19153-02 0002 SCOR--Pulmonary edemas--Etiology, pathogenesis - Lung fluid dynamics--Classical mediators and their inhibitors (sheep)
P01HL-19242-02 0007 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (animals)
** R23HL-19573-01 Studies on pulmonary serotonin (mice)
P01HL-19717-02 000. Response of the lung to injury - Cellular level studies of prostaglandin-like molecules (cattle)
R01HL-20114-02 Collagen-platelet interaction and human aorta collagen (human)
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)
R01HL-21115-01 Prevention of 02 toxicity with superoxide dismutase (rats)
R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
** R01HL-21217-01 Ion and 5-hydroxytryptamine transport by platelets
R23HL-21409-02 Perinatal control of the ductus arteriosus (sheep)
R01HL-22040-01 Regulation of lysyl-cross-linking in vascular tissue (rats, turkeys)
R01HL-22077-01 Vasoactive amine disposition in cultured endothelium (rabbits)
R01HL-22177-02 Mechanisms of control of pulmonary smooth muscle (dogs)
R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
R01HL-22244-01 Cardiopulmonary bypass and the vascular endothelium (dogs)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
R01HL-22561-01 Hormonal control of mesenteric circulation (cats)
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
** R01HL-23614-02 Pharmacology of relaxation in smooth muscle (mollusks)

BENZOPYRROLES, SEROTONIN INHIBITORS

SEE ALSO ALKALOIDS, ERGOT, METHYSERGIDE
SEE ALSO CYCLIC AMINO ACIDS, PHENYLALANINE, P-CHLOROPHENYLALANINE
SEE ALSO CYCLOHEPTANES, CYPROHEPTADINE
** P50HL-19153-02 0002 SCOR--Pulmonary edemas--Etiology, pathogenesis - Lung fluid dynamics--Classical mediators and their inhibitors (sheep)
R01HL-22520-01 Pulmonary vascular response to group B Streptococci (human, mammals)
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)

BENZOQUINONES

SEE QUINONES

BENZYLPENICILLINIC ACID

SEE ANTIBIOTICS, PENICILLIN G

BERBERINE

SEE ALKALOIDS, BERBINES

BERBINES

SEE ALKALOIDS, BERBINES

BERYLLIOSIS

SEE METALS POISONING, BERYLLIOSIS

BERYLLIUM (COMPOUNDS)

SEE METALS, ALKALINE EARTH METALS, BERYLLIUM

BETA GLOBULIN(S)

SEE GLOBULINS, BETA GLOBULINS

BETA RECEPTORS

SEE NEUROTRANSMITTERS RECEPTORS, ADRENERGIC RECEPTORS, BETA RECEPTORS

BETATRON

SEE RADIATION, PARTICLE ACCELERATORS

BETHANIDINE

SEE GUANIDINES, BETHANIDINE

BIBLIOGRAPHY

SEE PUBLICATIONS, LITERATURE SURVEY

BICARBONATES

SEE CARBONATES, BICARBONATES

BICUSPID VALVE

SEE HEART, VALVES, MITRAL VALVE

BIG BIG GASTRIN

SEE GASTROINTESTINAL HORMONES, GASTRIN

BIG GASTRIN

SEE GASTROINTESTINAL HORMONES, GASTRIN

BILE

R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
** R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
R01HL-22567-01 Validation of a cholesterol absorption method in man

BILE, CHOLAGOGUES AND CHOLERETICS

SEE ALSO BILE ACIDS AND SALTS
SEE ALSO BILE ALCOHOLS
SEE ALSO GASTROINTESTINAL HORMONES, PANCREOZYMIN-CHOLECYSTOKININ
SEE ALSO GASTROINTESTINAL HORMONES, SECRETIN
** R01HL-22748-01 Effect of bile sequestration on VLDL metabolism (human)

BILE ACIDS AND SALTS

SEE ALSO BILE, CHOLAGOGUES AND CHOLERETICS
R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)
** R01HL-07878-16 Metabolism of neutral sterols (rats, rabbits)
P01HL-08214-15 0041 Chemical and biological properties of lipids - Physico-chemical regulation of enzymes in lipid metabolism
P01HL-08899-14 0061 Tolerance to respiratory gases in health and disease - Hepatic oxygenation and secretory functions (rats, dogs)
P01HL-08974-14 0024 Natural and experimental atherosclerosis - Atherosclerosis, sterol and lipoprotein metabolism in nonhuman primates
** R01HL-09610-14 Control of cholesterol metabolism--Bile acid transport
R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
** R01HL-11901-12 0004 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Cholesterol dynamics studies (rats, rabbits, dogs)
** R01HL-11901-12 0013 Effects of metabolic surgery on the hyperlipidemias - Human cholesterol and bile acids dynamics--Ileal bypass
R01HL-11901-12 0015 Effects of metabolic surgery on the hyperlipidemias - Portacaval shunt for cholesterol reduction (dogs, rabbits)
** R01HL-11901-12 0019 Effects of metabolic surgery on the hyperlipidemias - Cholesterol, bileacids, lipoproteins in obese humans
R01HL-11901-12 0020 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass--Endogenous animal model of obesity (rats)
R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
R01HL-16796-05 Cholesterol regulation by HMG-CoA reductase (rats, human)
R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
R01HL-17564-03 Unsaturated fats--Mode of hypocholesterolemic action (minipig)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
R01HL-18219-04 Regulation of cholesterol metabolism (rats)
P50HL-19362-02 0009 A/S SCOR--Atherosclerosis in nonhuman primates - Cholesterol metabolism and intestinal microflora (baboon)
R01HL-20483-03 Sterol balance and cholesterol absorption in diabetics (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism Sterol metabolism in tissue culture cells
R01HL-23598-01 Dietary fat, cholesterol and bile acid turnover (rats)

BILE ACIDS AND SALTS, ENTEROHEPATIC CIRCULATION
R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)

BILE ALCOHOLS
SEE ALSO BILE, CHOLAGOGUES AND CHOLERETICS
R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)

BILE (DUCT) OBSTRUCTION
SEE BILIARY TRACT DISORDERS, BILE OBSTRUCTION

BILE PIGMENTS
SEE ALSO JAUNDICE
R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin

BILE PIGMENTS, BILIRUBIN
R01HL-22252-01 Synthesis of labeled hemes for protein NMR studies

BILHARZIASIS
SEE PARASITIC DISEASES, HELMINTH INFECTIONS, SCHISTOSOMIASIS

BILIARY ATRESIA
SEE BILIARY TRACT DISORDERS, BILIARY ATRESIA

BILIARY CALCULI
SEE BILIARY TRACT DISORDERS, CHOLELITHS

BILIARY TRACT DISORDERS, BILE OBSTRUCTION
SEE ALSO BILIARY TRACT DISORDERS, BILIARY ATRESIA
SEE ALSO BILIARY TRACT DISORDERS, CHOLELITHS
R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
P50HL-14237-07 0004 Support for arteriosclerosis center - Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys)
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

BILIARY TRACT DISORDERS, BILIARY ATRESIA
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)

BILIARY TRACT DISORDERS, CHOLELITHS
P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)
R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
R01HL-11901-12 0013 Effects of metabolic surgery on the hyperlipidemias - Human cholesterol and bile acids dynamics--Ileal bypass
** P60HL-15169-05 0012 Support for center for sickle cell disease - Evaluation of the incidence of cholelithiasis in sickle cell disease (human)
** R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
** R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
N01HV-22913-09 Lipid research clinic
N01HV-62900-00 Study of breast cancer and reserpine use (human)

BILIARY TRACT DISORDERS, GALLBLADDER DISORDERS
SEE ALSO BILIARY TRACT DISORDERS, CHOLELITHS
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)

BILIARY TRACT DISORDERS CHEMOTHERAPY
SEE ALSO BILIARY TRACT PHARMACOLOGY
SEE ALSO LIVER DISORDERS CHEMOTHERAPY
R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)

BILIARY TRACT DISORDERS DIAGNOSIS (INCL EXAMS)*
SEE ALSO LIVER DISORDERS DIAGNOSIS (INCL EXAMS)*
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
P60HL-15169-05 0012 Support for center for sickle cell disease - Evaluation of the incidence of cholelithiasis in sickle cell disease (human)

BILIARY TRACT EXAMINATIONS
SEE BILIARY TRACT DISORDERS DIAGNOSIS (INCL EXAMS)*

BILIARY TRACT OBSTRUCTION
SEE BILIARY TRACT DISORDERS, BILE OBSTRUCTION

BILIARY TRACT PHARMACOLOGY
SEE ALSO BILIARY TRACT DISORDERS CHEMOTHERAPY
SEE ALSO LIVER PHARMACOLOGY
** R01HL-22748-01 Effect of bile sequestration on VLDL metabolism (human)

BILIRUBIN
SEE BILE PIGMENTS, BILIRUBIN

BINDING (CHEMICAL)
SEE CHEMICAL BONDS, BINDING

BINDING PROTEINS
SEE PROTEIN BINDING

BINDING REAGENTS
SEE METAL COMPLEXES, LIGANDS

BIOANALYTICAL AND METALLOBIOCHEMISTRY STUDY SECTION
** R01HL-13651-07 X-ray photoelectron spectroscopy of heme compounds
** R01HL-22252-01 Synthesis of labeled hemes for protein NMR studies
** R01HL-22387-01 Metalloenzymes and disease
** R01HL-22821-01 A routine screening analysis for myoglobinemia
** R01HL-23120-01 Chelating agents as blood substitutes

BIOASSAY*
SEE ALSO CHEMICAL STRUCTURE--BIOLOGICAL ACTIVITY
SEE ALSO IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOASSAY*
N01HB-82924-00 Source of human urinary erythropoietin
N01HB-82926-00 Source of human urinary erythropoietin
P01HL-06312-17 0052 Surgical cardiology - Assay of metabolic variables of rat heart
R01HL-11172-12 Physiology and biochemistry of fibrinolytic enzymes (human, animals)
P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
P50HL-14164-07 0040 A/S SCOR--Comparative and experimental atherosclerosis - Core angiochemistry laboratory
R01HL-14890-07 Platelet prostaglandins (human, rabbits)
R01HL-16346-09 Enzyme assay for blood clotting (human)
R01HL-17930-03 Platelet membrane function--Assessment and application (animals)
R01HL-18908-03 Angiotensin converting enzyme of human serum
P50HL-19157-02 0001 Studies in cystic fibrosis and bronchiolitis - Laboratory core unit
** P50HL-19157-02 0004 Studies in cystic fibrosis and bronchiolitis - Macromolecular regulators of mucus secretion--Invertebrate model
** P50HL-19157-02 0007 Studies in cystic fibrosis and bronchiolitis - Analysis of cystic fibrosis factors (human)
** R01HL-19272-03 Studies on the Passovoy factor (human)
** R01HL-19331-03 Hirudin isolation and utilization (leeches)
R23HL-21208-02 Structure-function relationships of human factor VIII
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)

BIOAUTOFUEL CELL
SEE BIOMEDICAL ENGINEERING, BIOLOGICAL POWER SYSTEMS

BIOAVAILABILITY OF DRUGS
SEE DRUGS, PHARMACOLOGY, BIOAVAILABILITY

BIOCHEMICAL EVOLUTION
SEE BIOLOGY, SYSTEMATIC, EVOLUTION BIOCHEMICAL

BIOCHEMICAL INFORMATION SYSTEMS
SEE CHEMICAL AND DRUG INFORMATION SYSTEMS

BIOCHEMICAL PHARMACOLOGY
SEE DRUGS, PHARMACOLOGY, BIOCHEMICAL

BIOCHEMISTRY (GENERAL)*
SEE ALSO MICROBIAL CHEMISTRY STUDY SECTION
SEE ALSO MOLECULAR BIOLOGY
SEE ALSO PHYSICAL PROPERTIES, RHEOLOGY (NOT INCL. BLOOD)
SEE ALSO PHYSIOLOGICAL CHEMISTRY STUDY SECTION
R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
** P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)
** P01HL-12373-10 0018 Cardiopulmonary physiology and pathophysiology - Biochemistry laboratory
** P01HL-13737-07 0031 Assisted circulation - Myocardial ischemia--Biochemical changes (dogs)
R01HL-19195-03 Hormonal regulation of lung function (rats)
P01HL-19717-02 0001 Response of the lung to injury - Lung elastic tissue (animals)
M R01HL-20079-02 Thromboresistant material
P01HL-20552-02 9001 The development and regression of cardiac hypertrophy - Core A--Pathology
P01HL-20581-01 0004 Vascular neuroeffector mechanisms in health and disease Neuroeffector characteristics of mesenteric and pulmonary blood vessels (rabbits)
** P01HL-20581-01 9002 Vascular neuroeffector mechanisms in health and disease Biochemistry core
P01HL-20994-02 9001 Dynamics of neutrophil elastase in the lung Biochemistry and immunology core
** R01HL-22471-01 Biochemistry of prothrombin quick (human)

BIOCHEMISTRY, CLINICAL
SEE CHEMISTRY, CLINICAL

BIOCHEMISTRY STUDY SECTION
SEE ALSO PATHOBIOLOGICAL CHEMISTRY STUDY SECTION
** R01HL-02558-22 Structure function relationships in the heme proteins (human, cattle)
** R01HL-08299-16 Molecular biology of hemerythrin and hemocyanin (invertebrates)
** R01HL-09364-14 Ion transport by heart mitochondria (cattle, rat, rabbit)
** R01HL-11119-17 Amino acid analyzer for biochemical research
** R01HL-12576-10 Bioenergetics apparatus in heart mitochondria
** R01HL-12585-10 Structural properties of malate dehydrogenase (swine)
** R01HL-13035-08 Heart mitochondrial malate dehydrogenase regulation
** R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
** R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
** R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
** R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
** R01HL-15104-07 A mechanism for oxidative phosphorylation
** R01HL-15476-05 Mechanism and control of sterol biosynthesis (rats)
** R01HL-15535-06 Structure and function of human plasmin
** R01HL-15892-05 Inhibitors of proteinases (human, cattle, swine)
** R01HL-16549-04 Cardiotonic steroid-NaK ATPase interactions (cattle)
** R01HL-16647-05 Studies on the control of sickle cell crisis (human)
** R01HL-16686-04 Properties of cytochrome oxidase (cattle, bacteria)
** R01HL-17372-03 Adenine nucleotide maintenance in the ischemic heart (rats)
** R01HL-17963-04 Human erythrocyte carbonic anhydrase
** R01HL-18038-03 Structure and function of heart mitochondria (cattle)
** R01HL-18095-04 Human dopamine-beta-hydroxylase (also cattle)
** R01HL-18179-03 Heart, platelet, and muscle myosins and actomyosins (cattle)
** R01HL-18554-03 Taurine metabolism in mammalian heart (rodents, cattle, swine)
** R01HL-18567-03 A routine diagnostic test for minimal heart damage (human, rat)
** R01HL-18593-03 Characterization of heart valve collagen (human, pig)
** R01HL-18682-03 Protein kinase and cholesterol metabolism in aorta (rabbits)
** R01HL-19181-02 Regulation of heart cAMP-dependent protein kinase (rodents)
** R01HL-19532-01 Oxygen toxicity in the red cell (human)
** R01HL-19654-03 Biochemical-pharmacological evaluation of lung cells (rabbits)
** R01HL-20116-01 Heart lactate dehydrogenase--The complex with NAOH (pig)
** R01HL-20544-02 Integrated regulation of myocardial energy metabolism (rats, guinea pigs)
** R01HL-20658-01 Myocardial energy transport--Creative kinase (human, cattle, dog)
** R01HL-20909-02 Clofibrate-enhanced lipid oxidation by peroxisomes (rats)
** R23HL-21421-01 Myocardial and vascular contractility and cyclic nucleotides (cattle, rats)
** R01HL-22265-02 Isozymes of heart glutamate aspartate transaminase (swine, ducks)
** R01HL-22290-01 Cardiac energy metabolism and protein synthesis (mice)
** R23HL-22383-01 Biosynthesis--Response to oxygen depletion (human, primates, rats)
** R01HL-22486-01 Enzyme regulation in cultured arterial cells (swine)
** R01HL-22538-01 Myosin as a multi-enzyme complex (dogs, rabbits)
** R01HL-22896-01 Immediate metabolic fates of kinins and angiotensins (rat, rabbit, guinea pig)
** R23HL-22984-01 Cyclic AMP dependent protein kinases in hypertension (rat)

BIOCYBERNETICS
SEE INFORMATION PROCESSING AND CONTROL (BIOLOGICAL)

BIOCYBERNETICS (NEURAL)
SEE INFORMATION PROCESSING AND CONTROL (NEURAL)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number

BIODEGRADATION, BIOTRANSFORMATION (METABOLISM)
SEE METABOLISM, BIOTRANSFORMATION

BIOELECTRICITY
SEE ELECTROPHYSIOLOGY

BIOENERGETICS
SEE ALSO BIOLOGICAL TRANSPORT
SEE ALSO MUSCLE METABOLISM
SEE ALSO OXIDATION-REDUCTION
SEE ALSO OXIDATIVE PHOSPHORYLATION
SEE ALSO PHOTOBIOLOGY
SEE ALSO PHOTOCHEMISTRY
R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
P01HL-06285-18 0195 Cardiovascular-respiratory physiology and biochemistry - Thyroid thermogenesis and sodium transport (rats)
P01HL-06285-18 0211 Cardiovascular-respiratory physiology and biochemistry - Purple membrane of Halobacteria
P01HL-06664-17 0036 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
P01HL-06664-17 0040 Cardiopulmonary function in remediable vascular disease - The coupling of ion transport to metabolism (toads)
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
P01HL-11310-12 0068 Mechanisms of cardiovascular disease - Pharmacological intervention and myocarcial oxygen consuption (human, dogs)
** P01HL-11310-12 0094 Mechanisms of cardiovascular disease - Physics of pulsatile fluid flow (dogs)
P01HL-11310-12 9001 Mechanisms of cardiovascular disease - Core support-hospital beds
M P01HL-11351-12 Cellular and molecular mechanisms of myocardial function
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
** P01HL-11351-12 0006 Cellular and molecular mechanisms of myocardial function - Molecular physiology and energetics of muscle (frogs)
** P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
** P01HL-11351-12 0019 Cellular and molecular mechanisms of myocardial function - Mechano-chemical kinetics of small perturbations
** P01HL-11351-12 0021 Cellular and molecular mechanisms of myocardial function - Muscle energetics (frogs)
** P01HL-11351-12 0022 Cellular and molecular mechanisms of myocardial function - Energetic sequelae of shortening--Myothermal and biochemical (frogs)
** P01HL-11351-12 0023 Cellular and molecular mechanisms of myocardial function - Energetics of mammalian muscle (rats)
P01HL-11351-12 0024 Cellular and molecular mechanisms of myocardial function - Steady state and transient kinetics of frog myosin, S-1, and ATPase
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
P01HL-12157-11 0049 Functions and mechanisms of cell membrane ion transport - Ouabain-insensitive cation transport in duck red cells
R01HL-12576-10 Bioenergetics apparatus in heart mitochondria
R01HL-13651-07 X-ray photoelectron spectroscopy of heme compounds
P01HL-13737-07 0005 Assisted circulation - Piezoelectric assist device (animals)
** P50HL-14138-05 0015 Center for research on atherosclerosis - Arterial wall--Intermediary metabolism, enzyme activity and bioenergetics
** P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
** P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
** R01HL-14344-07 Platelet function and adenine nucleotide metabolism (human)
** P01HL-14388-07 0154 Regulation of the circulation in pathological states - Energetics of smooth muscle contraction (rats)
P01HL-14388-07 0175 Regulation of the circulation in pathological states - Functional studies of selected proteins from cardiac muscle
** P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
** R01HL-14461-08 Cardiac metabolism in heart failure (rats)
** R01HL-14820-07 Factors affecting physiology of biological membranes (human)
** R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
R01HL-15284-06 Hemoglobin and myoglobin kinetic studies (human, animals)
M P01HL-15835-06 Study of muscles related to heart disease
P01HL-15835-06 0010 Study of muscles related to heart disease - Muscle structure and reaction to injury (mice, rats)
** P01HL-15835-06 0011 Study of muscles related to heart disease - Energetics and mechanism of muscle contraction (frogs, rabbits)
** P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
** P01HL-15835-06 0013 Study of muscles related to heart disease - Cardiac bioenergetics (rats)
R01HL-16101-05 Protein-lipid interaction (bacteria, models)
P01HL-16251-06 0009 Membrane-bound enzymes in heart and other tissues - NADH dehydrogenase and site I of oxidative phosphorylation (yeast)
** P60HL-17269-04 0018 National heart and blood vessel research and demonstration center - Mitochondria and energetics (rabbits, dogs)
** P60HL-17269-04 0019 National heart and blood vessel research and demonstration center - Sarcoplasmic reticulum (dog, rabbit, hamster, cat)
R01HL-17592-03 Activation and contraction heat in enlarged hearts (rabbits)
P50HL-17665-04 0029 Study of ischemic heart disease - Myocardial protein synthesis and degradation in low oxygen states (rabbit, dog)
P50HL-17667-04 0012 Study of ischemic heart disease - Biochemistry of normal and ischemic heart--Glycolysis (rats)
P50HL-17667-04 0022 Study of ischemic heart disease - Preventing myocardial injury in surgery using cardiopulmonary bypass (human, rat)
P50HL-17667-04 0040 Study of ischemic heart disease - Core biochemistry--Cardiac metabolism (human)
** P50HL-17670-04 0023 Study of ischemic heart disease - Energy metabolism in acute myocardial ischemic injury (dogs)
P50HL-17682-04 0018 Study of ischemic heart disease - Biochemistry of ischemia--Heart cell and organ culture (mice, rats, cattle)
R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
R01HL-17895-04 Myocardial function and metabolism following ischemia (rats)
R01HL-18206-04 Regulation of metabolism in oxygen deficient hearts (rats)
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
M P01HL-18708-03 Oxygen, energy and contractility in cardiac tissue
** P01HL-18708-03 0005 Oxygen, energy and contractility in cardiac tissue - Cytosolic calcium homeostasis and bioenergetics of cardiac tissue (animals)
** P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
** P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
** R01HL-18933-03 Energy output and efficiency of left ventricle (dog)
** P01HL-19242-02 0001 Study of vascular smooth muscle - Energy metabolism and protein turnover in vascular smooth muscle (rats)
** R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
** R01HL-19461-03 Myocardial energetics in hypertrophy and heart failure (rabbits)
R01HL-20286-02 Interventions to improve cardiac function in ischemia (dogs)
R01HL-20369-03 The effect of alcohol on the heart (rats)
** R01HL-20484-03 Effects of diabetes on cardiac function and metabolism (rats)
** R01HL-20544-02 Integrated regulation of myocardial energy metabolism (rats, guinea pigs)
** P01HL-20552-02 0010 The development and regression of cardiac hypertrophy - Energy metabolism in the hypertrophied heart animals
** P01HL-20592-02 0001 Cell biology of cardiac and skeletal muscle - Molecular mechanism of muscle contraction (animals)
** R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)
R01HL-21500-02 Performance of respiratory muscles under stress (dogs)
** R01HL-21570-01 The mechanical basis of myocardial energetics (cats)
R01HL-21849-02 Control of sodium transport and cellular respiration (toad bladder)
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
** R01HL-22290-01 Cardiac energy metabolism and protein synthesis (mice)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R01HL-22729-01 Intracellular degradation of newly synthesized collagen (human, chick, rabbit)
R01HL-22981-17 Membrane-associated functions in microorganisms (bacteria, protozoa)
R01HL-23240-01 Pulmonary vascular muscle metabolism and contractility (rats, cattle)

BIOENERGETICS, HIGH ENERGY COMPOUNDS
P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)
** R01HL-15104-07 A mechanism for oxidative phosphorylation
R01HL-15983-04 Regional myocardial blood flow (dogs)
R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
P50HL-17670-04 0023 Study of ischemic heart disease - Energy metabolism in acute myocardial ischemic injury (dogs)
R01HL-17853-03 Peripheral circulation in heart failure (animals)
P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-20177-02 Effects of erythrocyte deformability on tissue perfusion (rats)
R01HL-20286-02 Interventions to improve cardiac function in ischemia (dogs)
P01HL-20552-02 0010 The development and regression of cardiac hypertrophy - Energy metabolism in the hypertrophied heart animals
R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
R01HL-21482-01 Cardiac function and metabolism in diabetes (rats)
R01HL-21500-02 Performance of respiratory muscles under stress (dogs)
R23HL-21853-01 Lung metabolism and alveolo-capillary permeability (rats)
R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
** R01HL-23140-01 Determinants of irreversible ischemic injury in heart (dog, rat)
R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)

BIOENGINEERING
SEE BIOMEDICAL ENGINEERING

BIOENGINEERING AND APPLIED PHYSIOLOGY STUDY SECTION
SEE PHYSIOLOGY (APPLIED) AND ORTHOPEDICS STUDY SECTION

BIOEQUIVALENCE OF DRUGS
SEE DRUGS, PHARMACOLOGY, BIOAVAILABILITY

BIOETHICS
SEE HEALTH SOCIAL CONTROL

BIOFEEDBACK CONDITIONING (TRAINING)
SEE PSYCHOLOGY, CONDITIONING, AUTOGENIC AND INTERNAL CONTROL

BIOGENIC AMINES, NEURAL
SEE NEUROTRANSMITTERS (GENERAL)

BIOLOGICAL BASIS (CORRELATES) OF BEHAVIOR
SEE PSYCHOBIOLOGY, PSYCHOPHYSIOLOGY

BIOLOGICAL BATTERIES, FUEL CELLS
SEE BIOMEDICAL ENGINEERING, BIOLOGICAL POWER SYSTEMS

BIOLOGICAL CLOCKS, RHYTHMS
SEE BIOPERIODICITY, BIOLOGICAL CLOCKS

BIOLOGICAL CONTROL AND PROCESSING OF INFORMATION
SEE INFORMATION PROCESSING AND CONTROL (BIOLOGICAL)

BIOLOGICAL EFFECTS OF PESTICIDES
SEE PESTICIDES BIOLOGICAL EFFECTS (GENERAL)

BIOLOGICAL MODELS
SEE MODELS, BIOLOGICAL

BIOLOGICAL POWER SOURCES
SEE BIOMEDICAL ENGINEERING, BIOLOGICAL POWER SYSTEMS

BIOLOGICAL PREPARATIONS AND STANDARDIZATION
SEE ALSO IMMUNOLOGICAL PREPARATIONS (GENERAL)(INCLUDING CERTIFICATION AND STANDARDIZATION)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

SEE ALSO PLANTS EXTRACTS, MEDICINAL PLANTS
** N01HB-53035-04 Factor VIII inhibitors in patients with hemophilia
** N01HB-82924-00 Source of human urinary erythropoietin
** P01HL-06350-17 0018 Hemostasis research program project Variants of factors IX (human, cattle)
** R01HL-10582-12 Thrombosis and hemostasis Analysis, methods and standards (human, cattle, venom)
** R01HL-10880-13 Purification of human erythropoietin for research use
** R01HL-13160-08 Human thrombin (also cattle)
R01HL-13587-06 Synthesis of renin inhibitors and analog phosphatidas (rats)
** R01HL-13881-08 The American Red Cross National Fractionation Center
** R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
P01HL-15596-05 0007 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of urokinase (human)
R01HL-16633-04 Chemistry and biology of factor IX activator (human, mice, rats)
** R01HL-16675-05 Human urinary erythropoietin collection
R01HL-17726-03 Bacterial heparinase in diagnostic coagulation studies
P01HL-17813-04 0008 Lung disease and the oxygenation of blood and tissue - Pulmonary regulation of systemic blood pressure (human, rabbits, rats)
** R01HL-18618-04 Purification and function of human HMW kininogen
R01HL-19820-02 The chemistry and biological effects of heparin (Rhesus, human, other mammals)
R01HL-22402-01 Heparin-biophysical, chemical and biological aspects (mice, human)
N01HR-72920-01 Identify and quantify cystic fibrosis factors (human)

BIOLOGICAL RHYTHMS, CLOCKS

SEE BIOPERIODICITY, BIOLOGICAL CLOCKS

BIOLOGICAL TRANSPORT

SEE ALSO AMINO ACIDS TRANSPORT (GENERAL)
SEE ALSO CARBOHYDRATES TRANSPORT (GENERAL)
SEE ALSO FATTY ACIDS TRANSPORT (GENERAL)
SEE ALSO LIPIDS TRANSPORT
SEE ALSO NERVOUS SYSTEM, NEURONS, AXOPLASMIC FLOW
SEE ALSO PROTEINS TRANSPORT
SEE ALSO RESPIRATORY GAS TRANSPORT
** P01HL-06835-17 0028 Cardiovascular disease - Studies in thrombosis-fibrinogen in fibrin transport (human)
** R01HL-12647-08 Inactivation of norepinephrine in vascular tissue
R01HL-13909-27 Physiochemistry and immunology of macromolecules
R01HL-15270-06 Local mechanical properties of the aortic tissue (dogs, pigs)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
** R01HL-16916-04 0011 The role of albumins in lung water accumulation - Whole body distribution and exchange of albumin (rabbits, human, monkeys)
** P01HL-17421-05 0001 Regulation and exchange in the microcirculation - Mass transfer and microcirculatory function (rats)
R01HL-17895-04 Myocardial function and metabolism following ischemia (rats)
R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)
R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)
R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
** R01HL-21429-02 Transport of LDL in arterial wall (human, mammals)
** R01HL-21438-02 Structure and permeability of arterial endothelium (pigs)
R01HL-22077-01 Vasoactive amine disposition in cultured endothelium (rabbits)

BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT

SEE ALSO GASTROINTESTINAL FUNCTION, ABSORPTION-TRANSPORT (GENERAL)
SEE ALSO KIDNEY FUNCTION, RENAL TUBULAR TRANSPORT
** R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
** P01HL-06664-17 0039 Cardiopulmonary function in remediable vascular disease - Transepithelial active transport and cell volume regulation (frogs)
P01HL-07896-15 0049 Environmental biomedical research program - Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
R01HL-08893-14 Structure and function of membrane proteins (human)
R01HL-09364-14 Ion transport by heart mitochondria (cattle, rat, rabbit)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
M P01HL-12157-11 Functions and mechanisms of cell membrane ion transport
** P01HL-12157-11 0033 Functions and mechanisms of cell membrane ion transport Immunology aspects of active Na K transport in sheep red cell (also human, mice)
P01HL-12157-11 0055 Functions and mechanisms of cell membrane ion transport Growth and development of synthetic strand heart cells in culture (chick embryo)
** R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)
P01HL-14388-07 0192 Regulation of the circulation in pathological states Renal tubular secretion of magnesium (rats)
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions Effects of pressure on membrane and cellular function (human, rabbits)
P01HL-15835-06 0011 Study of muscles related to heart disease - Energetics and mechanism of muscle contraction (frogs, rabbits)
R01HL-15852-06 Vascular ion transport and hypertensive mechanisms
R01HL-16101-05 Protein-lipid interaction (bacteria, models)
P01HL-16117-05 0005 Ion movements and membranes in cardiovascular control - Properties of isolated cell membranes (rabbits, cats)
** P60HL-17269-04 0019 National heart and blood vessel research and demonstration center - Sarcoplasmic reticulum (dog, rabbit, hamster, cat)
** P50HL-17646-04 0012 Study of ischemic heart disease - Role of microcirculation in progression of myocardial ischemic injury (rat)
R01HL-17796-04 Importance of aminosugars in digitalis activity (cats, rabbits)
** R01HL-17879-04 Molecular structure of the ouabain sensitive ATPase (dogs)
** R01HL-18038-03 Structure and function of heart mitochondria (cattle)
P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
R01HL-19639-02 Permeability transients of carriers, channels and heart
R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
** R01HL-23115-01 Regulation of active sodium transport (frogs, rats)
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)

BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, CARRIER MEDIATED PERMEATION

P60HL-15999-05 0014 Miami comprehensive sickle cell center - Biochemical and morphological parameters of sickle cells (human)
R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)

BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS

SEE ALSO BIOLOGICAL TRANSPORT, ION EXCHANGE AND TRANSPORT, ION CARRIERS (IONOPHORES)
** R01HL-01974-24 Ion-pump in the erythrocyte (rabbits, guinea pigs)
P01HL-06285-18 0211 Cardiovascular-respiratory physiology and biochemistry - Purple membrane of Halobacteria
** P01HL-11310-12 0102 Mechanisms of cardiovascular disease - Cardiac membrane and ion mobility (dogs)
** P01HL-12157-11 0054 Functions and mechanisms of cell membrane ion transport - Simulation of electrogenic ion transport in cardiac muscle
** P01HL-12157-11 0060 Functions and mechanisms of cell membrane ion transport - Ion transport and electrical properties of giant-celled alga
R01HL-15793-06 Molecular aspects of erythrocyte membrane resealing (human)
R01HL-19995-02 Sensory transduction in cardiac mechanoreceptors (cats, frogs, rats)

BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS, CALCIUM PUMP

** P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
** P01HL-06308-18 0035 Mechanisms and therapy of circulatory disease - Mechanisms for electrophysiological changes in myocardial infarction (dogs)
P01HL-06664-17 0036 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
R01HL-09234-13 Amino acids of contractile proteins of failing hearts (dogs, hamsters)
P01HL-11351-12 0002 Cellular and molecular mechanisms of myocardial function Effects of hypoxia and ischemia on ionic exchange (rats, rabbits)
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function Molecular mechanisms of contractile function and differentiation (animals)
** P01HL-11351-12 0009 Cellular and molecular mechanisms of myocardial function Myocardial membrane surface coat (rats, rabbits)
** P01HL-11351-12 0010 Cellular and molecular mechanisms of myocardial function Basic ionic exchange studies (rats)
** P01HL-11351-12 0011 Cellular and molecular mechanisms of myocardial function Comparative contractile tissue studies (animals)
** P01HL-11351-12 0013 Cellular and molecular mechanisms of myocardial function Ion exchange in the perfused septum high-resolution technique (rabbits, rats)
R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
** R01HL-12186-09 Calcium transients in striated muscle and other cells (mammals, frogs)
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology Fatty acid metabolism-Regulation, implications (human, mammals, birds)
P01HL-12738-10 0044 Physiologic pharmacology and its clinical applications Cardioactive drugs and electrophysiological properties of cardiac cells (sheep)
** P01HL-12738-10 0109 Physiologic pharmacology and its clinical applications - Effects of calcium blockers on skeletal and cardiac muscle (cats)
P01HL-12738-10 0110 Physiologic pharmacology and its clinical applications Physiology and pharmacology of arrhythmias (dogs)
R01HL-12774-08 Ionic coupling in activation of cardiac muscle (frogs, guinea pigs)
R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
R01HL-13375-09 Cellular potential changes causing cardiac arrhythmias (dogs)
R01HL-13454-08 Behavioral stress and cardiomyopathy (monkeys, cats)
P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
R01HL-14775-08 Mechanisms of drug action in vascular smooth muscle (dog, rabbits)
P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
** R01HL-15764-05 C-AMP dependent protein kinase in cardiac contraction (dogs)
P01HL-15835-06 0018 Study of muscles related to heart disease - Pharmacology of excitation coupling in muscle (frog, barnacles)
** P01HL-15835-06 0021 Study of muscles related to heart disease - Fast kinetic studies in muscle subcellular organelles (animals)
R01HL-15888-05 Comparative stereology of the myocardium (birds, mammals)
P60HL-15999-05 0014 Miami comprehensive sickle cell center - Biochemical and morphological parameters of sickle cells (human)
P60HL-16008-06 0018 Wayne State University comprehensive sickle cell center - Hemoglobin S and RBC membranes--Pathogenesis of irreversibly sickled cells
R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
** P01HL-16117-05 0008 Ion movements and membranes in cardiovascular control - Arterial smooth muscle calcium fluxes and contractility (rabbits)
** R01HL-16135-05 Mechanisms of cardiac autorhythmicity (dogs, bats)
R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
R01HL-16240-05 The cardiac histamine receptor (rabbits, guinea pigs)
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
M P01HL-16607-05 Calcium ion and control of cardiovascular function
** P01HL-16607-05 0001 Calcium ion and control of cardiovascular function - Bilayer lipid membranes, antibiotic probes, and SR function
** P01HL-16607-05 0003 Calcium ion and control of cardiovascular function - Calcium transport in sarcoplasmic membranes (animals)
** P01HL-16607-05 0005 Calcium ion and control of cardiovascular function - Chemical modifications of the sarcoplasmic reticulum membranes (rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-16607-05 0006 Calcium ion and control of cardiovascular function - Sarcomere and contractile dynamics of striated muscle cells (animals)
R01HL-16706-04 Excitation-contraction coupling and heart failure (dogs, rabbits)
** R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
P01HL-16833-04 0011 Hemoglobin and red cell system in hemoglobinopathies - Relationship between hemoglobin and RBC membrane in sickling cells (human, rats)
** P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
R01HL-17592-03 Activation and contraction heat in enlarged hearts (rabbits)
R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
R01HL-17702-04 Electro-optical dyes as probes of heart excitability
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
** P01HL-18708-03 0004 Oxygen, energy and contractility in cardiac tissue - Structural-functional studies on sarcoplasmic reticulum (rabbits)
** P01HL-18708-03 0005 Oxygen, energy and contractility in cardiac tissue - Cytosolic calcium homeostasis and bioenergetics of cardiac tissue (animals)
P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
R01HL-18937-03 Cyclic nucleotides and calcium in platelets (human)
** R01HL-19027-03 Calcium and cyclic AMP in causation of hypertension (rats)
R01HL-19044-03 Effect of drugs on development of cardiac failure (cats)
R01HL-19076-03 Vagal control of heart rate--A biophysical model (rabbits)
R01HL-19082-01 Hypoxia-induced relaxation of vascular smooth muscle
P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
P01HL-19242-02 0009 Study of vascular smooth muscle - Electrophysiology of vascular smooth muscle (rats, chick embryo)
R01HL-19461-03 Myocardial energetics in hypertrophy and heart failure (rabbits)
** R01HL-19485-03 Calcium uptake by normal and failed cardiac ATPase (dogs)
P01HL-19737-02 0002 Cellular and molecular aspects of respiratory physiology - Airway smooth muscle in health and disease (human, animals)
P01HL-20592-02 0001 Cell biology of cardiac and skeletal muscle - Molecular mechanism of muscle contraction (animals)
P01HL-20592-02 0003 Cell biology of cardiac and skeletal muscle - Cellular magnesium and anion activities in ion-specific microelectrodes (frogs)
R01HL-20610-02 Nerve growth factor and obstructive cardiomyopathy (dogs)
** R01HL-21030-01 Calcium regulation and hypertension (rats)
R01HL-21038-01 Electrically induced cardiac EM-histochemical changes (animals)
R01HL-21182-02 Active tension and shortening in cardiac hypertrophy (rabbits)
** R23HL-21213-01 A model for calcium homeostasis in excitable tissue (marine worms)
** R23HL-21262-02 Sodium-calcium interactions in mammalian myocardium (rabbits, cats)
R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)
R23HL-21325-02 Sarcomere kinematics in cardiac contraction (rats, rabbits)
** R01HL-21469-01 Active transport and effect of CA00 in sickle cell (human)
** R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
** R01HL-21850-01 Calcium transport in the hypertrophied myocardium (rats, animals)
R01HL-21995-01 Protein phosphorylation and adrenergic effects
R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)
R01HL-22170-01 Factors influencing transmission at adrenergic synpases
R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
** R01HL-22269-01 Excitation-contraction coupling in enlarged hearts (rabbits)
R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
R01HL-22444-01 Bronchial mucus production in organ culture (human)
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
M P01HL-22619-01 Cellular mechanisms of heart failure
** P01HL-22619-01 0002 Cellular mechanisms of heart failure - Structure of sodium, potassium-adenosine triphosphatase (lambs, dogs)
** P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R01HL-22685-01 Drugs and excitation-contraction coupling in heart (animals)
** R01HL-22813-01 Palmitylcarnitine inhibition of ion pumps in ischemia (dogs)
R01HL-22828-01 Adenosine and catecholamine interaction in the heart (rats)
R01HL-23128-01 Cardiac contractility--Ischemia and hypoxia (rabbits, rats)
R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)
R01HL-23153-01 Mechanisms of altered CA20 transport in ischemic heart (dog, rabbit)
** R01HL-23161-01 0002 Biology of myocardial ischemia - Palmitylcarnitine inhibition of ion pumps in myocardial ischemia (dog, sheep)
** R01HL-23200-01 Isolation of CA binding proteins from erythrocytes (human)

BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS, CHLORIDE PUMP

P01HL-12157-11 0060 Functions and mechanisms of cell membrane ion transport - Ion transport and electrical properties of giant-celled aiga
R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
P01HL-14388-07 0167 Regulation of the circulation in pathological states - Increased reactivity of artery vascular muscle in spontaneously hypertensive rat
P01HL-14388-07 0168 Regulation of the circulation in pathological states - Ionic basis of depolarization (rats, tissue culture)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
** P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
R01HL-18053-03 Intracellular ionic activities in heart muscle (frogs)
** R01HL-20365-03 Molecular mechanisms of anion transport
P01HL-20592-02 0003 Cell biology of cardiac and skeletal muscle - Cellular magnesium and anion activities in ion-specific microelectrodes (frogs)
** P01HL-20592-02 0005 Cell biology of cardiac and skeletal muscle - Quantitative voltage studies
R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)
R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)

BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS, HYDROGEN PUMP

** R01HL-12774-08 Ionic coupling in activation of cardiac muscle (frogs, guinea pigs)

BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS, POTASSIUM PUMP

R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
P01HL-08682-15 0036 Regulation of the cardiovascular system - Electrolyte transport in myocardium with hemorrhagic shock (rats)
R01HL-09906-13 0023 Membrane transport processes in red blood cells - Cation and anion movements in two sub-groups of dog erythrocytes
** R01HL-09906-13 0025 Membrane transport processes in red blood cells - Mechanism of propranolol induced Ca-dependent K efflux from human RBCs
P01HL-12157-11 0054 Functions and mechanisms of cell membrane ion transport - Simulation of electrogenic ion transport in cardiac muscle
P01HL-12738-10 0080 Physiologic pharmacology and its clinical applications - Electrophysiology of cardiac muscle in the mitral valve (monkeys)
P01HL-12738-10 0110 Physiologic pharmacology and its clinical applications - Physiology and pharmacology of arrhythmias (dogs)
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
P01HL-14388-07 0152 Regulation of the circulation in pathological states - Ion flux alterations in caudal artery in SHR
P01HL-14388-07 0167 Regulation of the circulation in pathological states - Increased reactivity of artery vascular muscle in spontaneously hypertensive rat
P01HL-14388-07 0168 Regulation of the circulation in pathological states - Ionic basis of depolarization (rats, tissue culture)
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
R01HL-14775-08 Mechanisms of drug action in vascular smooth muscle (dog, rabbits)
P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
R01HL-16135-05 Mechanisms of cardiac autorhythmicity (dogs, bats)
R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
R01HL-17452-04 Depolarization induced cardiac automaticity (human, animals)
R01HL-18943-03 Contractile activity of single cardiac cells
R01HL-19082-01 Hypoxia-induced relaxation of vascular smooth muscle
P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
** P01HL-20592-02 0006 Cell biology of cardiac and skeletal muscle - Permeability and ultrastructure of cardiac nexuses (rabbits, cattle, rats)
P01HL-21016-02 0008 Sickle cell anemia and other hemoglobinopathies - The clinical variations of sickle cell anemia
R01HL-21136-02 Ion acti...ties and transport in cardiac muscle cells (sheep)
R01HL-21179-01 Volume regulation--Role of the membrane potential (amphiuma)
R01HL-21294-02 Voltage clamp of isolated cardiac Purkinje cells (dogs)
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)
** R01HL-23115-01 Regulation of active sodium transport (frogs, rats)

BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS, SODIUM PUMP

R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
** P01HL-06285-18 0193 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Aldosterone (rats, toads)
P01HL-06285-18 0194 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--RNA synthesis (rats, toads)
** P01HL-06285-18 0195 Cardiovascular-respiratory physiology and biochemistry - Thyroid thermogenesis and sodium transport (rats)
** P01HL-06285-18 0196 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Epithelial cell membranes (toads)
** P01HL-06285-18 0197 Cardiovascular-respiratory physiology and biochemistry - Microperfusion and micropuncture of renal tubules (hamsters, desert rats)
** P01HL-06285-18 0199 Cardiovascular-respiratory physiology and biochemistry - Renal tubular reabsorption of sodium chloride (hamsters, rabbits)
** P01HL-06285-18 0200 Cardiovascular-respiratory physiology and biochemistry - Medullary counter-current system (animals)
** P01HL-06308-18 0035 Mechanisms and therapy of circulatory disease - Mechanisms for electrophysiological changes in myocardial infarction (dogs)
P01HL-06664-17 0037 Cardiopulmonary function in remediable vascular disease - Salt and water balance of cells and tissues (rabbits)
** P01HL-06664-17 0039 Cardiopulmonary function in remediable vascular disease - Transepithelial active transport and cell volume regulation (frogs)
** P01HL-06664-17 0040 Cardiopulmonary function in remediable vascular disease - The coupling of ion transport to metabolism (toads)
** P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
** P01HL-07896-15 0030 Environmental biomedical research program - Narcosis caused by inert gases at raised pressures (human, animals)
P01HL-08682-15 0036 Regulation of the cardiovascular system - Electrolyte transport in myocardium with hemorrhagic shock (rats)
R01HL-08893-14 Structure and function of membrane proteins (human)
R01HL-09906-13 0023 Membrane transport processes in red blood cells - Cation and anion movements in two sub-groups of dog erythrocytes

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
** R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
P01HL-11351-12 0001 Cellular and molecular mechanisms of myocardial function - Ionic control of myocardial contractility (animals)
P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
** P01HL-12157-11 0033 Functions and mechanisms of cell membrane ion transport - Immunology aspects of active Na-K transport in sheep red cell (also human, mice)
P01HL-12157-11 0054 Functions and mechanisms of cell membrane ion transport - Simulation of electrogenic ion transport in cardiac muscle
P01HL-12738-10 0044 Physiologic pharmacology and its clinical applications - Cardioactive drugs and electrophysiological properties of cardiac cells (sheep)
P01HL-12738-10 0136 Physiologic pharmacology and its clinical applications -
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
P01HL-14388-07 0152 Regulation of the circulation in pathological states - Ion flux alterations in caudal artery in SHR
P01HL-14388-07 0192 Regulation of the circulation in pathological states - Renal tubular secretion of magnesium (rats)
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
** P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
P60HL-17269-04 0018 National heart and blood vessel research and demonstration center - Mitochondria and energetics (rabbits, dogs)
P60HL-17269-04 0022 National heart and blood vessel research and demonstration center - Medicinal chemistry (rabbit, dog, guinea pig)
R01HL-17702-04 Electro-optical dyes as probes of heart excitability
P01HL-17871-04 0013 Kidney, sodium, cardiac output, arterioles and hypertension - Perfusion pressure and renal sodium excretion (rats)
** R01HL-18185-04 Cardiac glycosides and diuretics--Role of NaO pump (dogs)
R01HL-18943-03 Contractile activity of single cardiac cells
R01HL-19216-03 Characterization of cardiac pacemaker activity (cat, dog, rabbit)
R01HL-19320-03 Angiotensin neuropharmacology--Relationship to sodium
R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
R01HL-19398-03 Regional conduction abnormalities and arrhythmias (dogs)
R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
P01HL-20581-01 0001 Vascular neuroeffector mechanisms in health and disease - Vascular neuroeffector mechanism (rabbits)
R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
R01HL-21179-01 Volume regulation--Role of the membrane potential (amphiuma)
R01HL-21217-01 Ion and 5-hydroxytryptamine transport by platelets
** R23HL-21262-02 Sodium-calcium interactions in mammalian myocardium (rabbits, cats)
R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)
** R01HL-21342-02 Isolation and analysis of sodium channel from heart (frogs)
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
** R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
R23HL-22245-02 Functional characteristics of atrial receptors (rats)
R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
R01HL-22685-01 Drugs and excitation-contraction coupling in heart (animals)
** R01HL-22813-01 Palmitylcarnitine inhibition of ion pumps in ischemia (dogs)
R23HL-22882-01 Modulation by disease of effect of furosemide in man
** R01HL-23115-01 Regulation of active sodium transport (frogs, rats)

BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS, SODIUM-POTASSIUM PUMP

R01HL-01974-24 Ion-pump in the erythrocyte (rabbits, guinea pigs)
P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology
P01HL-06664-17 0036 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
P01HL-07896-15 0032 Environmental biomedical research program - Fluorometry study of brain exposed to hyperbaric oxygen (dogs, cats)
R01HL-09234-13 Amino acids of contractile proteins of failing hearts (dogs, hamsters)
** R01HL-09906-13 0018 Membrane transport processes in red blood cells - Rapid photolytic release of ATP from a protected analog-Na-K pump of RBC ghosts
** R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
** P01HL-11351-12 0009 Cellular and molecular mechanisms of myocardial function - Myocardial membrane surface coat (rats, rabbits)
** P01HL-11351-12 0010 Cellular and molecular mechanisms of myocardial function - Basic ionic exchange studies (rats)
** P01HL-11351-12 0011 Cellular and molecular mechanisms of myocardial function - Comparative contractile tissue studies (animals)
** R01HL-12774-08 Ionic coupling in activation of cardiac muscle (frogs, guinea pigs)
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-13375-09 Cellular potential changes causing cardiac arrhythmias (dogs)
P01HL-14388-07 0167 Regulation of the circulation in pathological states - Increased reactivity of artery vascular muscle in spontaneously hypertensive rat
P01HL-14388-07 0168 Regulation of the circulation in pathological states - Ionic basis of depolarization (rats, tissue culture)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0223 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (rats)
R01HL-14526-07 Oral centracaptives and hypertension (rats)
P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
P01HL-15835-06 0018 Study of muscles related to heart disease - Pharmacology of excitation coupling in muscle (frog, barnacles)
** R01HL-16318-21 Biochemistry and pharmacology of Na-K transport
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
R01HL-16549-04 Cardiotonic steroid-NaK ATPase interactions (cattle)
R01HL-16567-04 Differentiation of the heart-cell membrane (mice, chick)
R01HL-17451-05 Digitalis effects on cardiac automaticity mechanisms
R01HL-17555-05 Distribution and metabolism of labeled digitaloids (dogs, guinea pigs)
R01HL-17796-04 Importance of aminosugars in digitalis activity (cats, rabbits)
R01HL-18053-03 Intracellular ionic activities in heart muscle (frogs)
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
** R01HL-18598-03 Role of Na, K-ATPase inhibition on digitalis action
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
R01HL-18798-04 0001 Nervous and ionic factors in sudden cardiac death - Potassium loss during myocardial ischemia (rabbits)
R01HL-19076-03 Vagal control of heart rate--A biophysical model (rabbits)
R01HL-19129-04 Cardiac glycosides--Mechanisms of cellular actions
P01HL-19737-02 0002 Cellular and molecular aspects of respiratory physiology - Airway smooth muscle in health and disease (human, animals)
R01HL-19933-02 Membrane and red cell dysfunction in hemolytic anemia (human)
** R01HL-20262-02 Cardiac glycosides and the mechanism of the sodium potassium pump
P01HL-20592-02 0005 Cell biology of cardiac and skeletal muscle Quantitative voltage studies
** R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
P60HL-20985-01 0004 Northern California sickle cell center Characterization of irreversibly sickled cells (human)
R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)
** R23HL-21196-02 Digitalis induced arrhythmia and NAO KO-atpase activity (dogs)
R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
R01HL-21995-01 Protein phosphorylation and adrenergic effects
M P01HL-22619-01 Cellular mechanisms of heart failure
** P01HL-22619-01 0001 Cellular mechanisms of heart failure - Cell membrane isolation and reconstitution (dogs, lambs)
** P01HL-22619-01 0002 Cellular mechanisms of heart failure - Structure of sodium, potassium-adenosine triphosphatase (lambs, dogs)
** P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
** P01HL-22619-01 0004 Cellular mechanisms of heart failure - Mechanism of action of Na, K-ATPase (sheep, cattle)
R01HL-22951-01 Studies on the effect of vitamin E on platelets (human, rats)
** R01HL-23161-01 0002 Biology of myocardial ischemia - Palmitylcarnitine inhibition of ion pumps in myocardial ischemia (dog, sheep)
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)
** R01HL-23600-01 Ions, water, and hypertension (human, dogs, rats)

BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, PINOCYTOSIS

SEE ALSO CELL INGESTION, PHAGOCYTOSIS
R01HL-04512-19 Ultrastructural studies of capillary permeability (rats, mice)
P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveole--Capillary membrane in normal pulmonary hypertensive lung
R01HL-10642-18 Plasma cholesterol metabolism (human, macaca)
R01HL-11154-12 Blood group antigens and antibodies (human)
R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
** R01HL-16666-05 Micropinocytosis in isolated capillary endothelium
P01HL-16748-05 0001 Cellular and immunological basis of pulmonary diseases - Mechanisms of alveolar macrophage function and dysfunction (human, rabbits)
R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
R01HL-21120-02 Membrane dynamics in alveolar macrophages (rabbits)
** R23HL-21411-02 Control of extracellular lysosomal hydrolase levels (rats)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
R01HL-22170-01 Factors influencing transmission at adrenergic synapses
** R01HL-22463-02 Pinocytotic vesicles and pulmonary edema (rats)
R01HL-22924-01 The airway mucosal barrier (guinea pigs)

BIOLOGICAL TRANSPORT, FLUID EXCHANGE AND TRANSPORT

SEE ALSO BIOLOGICAL TRANSPORT, PASSIVE TRANSPORT, DIFFUSION
SEE ALSO BIOLOGICAL TRANSPORT, PASSIVE TRANSPORT, OSMOSIS
SEE ALSO BLOOD OSMOTIC PRESSURE
SEE ALSO BODY FLUID BALANCE THERAPY
SEE ALSO CELL FLUIDS, OSMOTIC PRESSURE
** R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
** P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in ROS (sheep, cat)

(contd)

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**Oriented significantly to above subject.

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** R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (ratso sheep, rabbits)
P50HL-19153-02 0004 SCOR--Pulmonary edemas--Eitology, pathogenesis - Physical mechanisms in lung transvascular transport--Math models (sheep)
M P50HL-19155-02 Pathophysiology of pulmonary edema
P50HL-19155-02 0001 Pathophysiology of pulmonary edema - Pulmonary edema study unit (human, dog)
** P50HL-19155-02 0004 Pathophysiology of pulmonary edema - Physical and chemical effects of multiple pulmonary emboli (sheep)
** P50HL-19185-02 0004 Pulmonary SCOR--Neonatal respiratory distress syndromes - Fluid and protein transport in fetal and newborn lung (sheep, rabbits)
** R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)
** R01HL-21376-02 Blood-gas barrier solute and water transport (rabbits)
R01HL-21800-01 Angiotensin effects on water intake and excretion
** R01HL-22444-01 Bronchial mucus production in organ culture (human)
** R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)

BIOLOGICAL TRANSPORT, ION EXCHANGE AND TRANSPORT

R01HL-01813-25 Regulation of metabolism by drugs and hormones (rats)
** R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
P01HL-06285-18 0189 Cardiovascular-respiratory physiology and biochemistry - Mucociliary clearance (cats, dogs)
P01HL-06285-18 0194 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--RNA synthesis (rats, toads)
P01HL-06285-18 0197 Cardiovascular-respiratory physiology and biochemistry - Microperfusion and micropuncture of renal tubules (hamsters, desert rats)
P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)
P01HL-06285-18 0200 Cardiovascular-respiratory physiology and biochemistry - Medullary counter-current system (animals)
P01HL-06285-18 0211 Cardiovascular-respiratory physiology and biochemistry - Purple membrane of Halobacteria
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
P01HL-06664-17 0040 Cardiopulmonary function in remediable vascular disease - The coupling of ion transport to metabolism (toads)
P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
** P01HL-08682-15 0036 Regulation of the cardiovascular system - Electrolyte transport in myocardium with hemorrhagic shock (rats)
R01HL-08977-14 Quantitation of flow and solute flux in microvessels (cats, rats)
** R01HL-09364-14 Ion transport by heart mitochondria (cattle, rat, rabbit)
** R01HL-09906-13 0020 Membrane transport processes in red blood cells - Calibration of a fluorescent probe for erythrocytes
** R01HL-09906-13 0022 Membrane transport processes in red blood cells - Anion transport in dog and cat red cells
R01HL-09906-13 0023 Membrane transport processes in red blood cells - Cation and anion movements in two sub-groups of dog erythrocytes
** R01HL-09906-13 0024 Membrane transport processes in red blood cells - Inhibition of sulfate transport in human RBCs by isothiocyanic acid esters
** R01HL-10182-13 Circulatory function and electrolytic metabolism (dogs, human)
P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
** R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
M P01HL-11351-12 Cellular and molecular mechanisms of myocardial function
** P01HL-11351-12 0001 Cellular and molecular mechanisms of myocardial function - Ionic control of myocardial contractility (animals)
** P01HL-11351-12 0002 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ionic exchange (rats, rabbits)
** P01HL-11351-12 0009 Cellular and molecular mechanisms of myocardial function - Myocardial membrane surface coat (rats, rabbits)
** P01HL-11351-12 0011 Cellular and molecular mechanisms of myocardial function - Comparative contractile tissue studies (animals)
** P01HL-11351-12 0013 Cellular and molecular mechanisms of myocardial function - Ion exchange in the perfused septum high-resolution technique (rabbits, rats)
** P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
P01HL-11351-12 0020 Cellular and molecular mechanisms of myocardial function - Electrophysiology of cultured heart cells
P01HL-11678-11 0063 Cardiovascular dynamics and their control - Renin-angiotensin system--Control of renal hemodynamics, electrolyte excretion
M P01HL-12157-11 Functions and mechanisms of cell membrane ion transport
** P01HL-12157-11 0049 Functions and mechanisms of cell membrane ion transport - Ouabain-insensitive cation transport in duck red cells
** P01HL-12157-11 0060 Functions and mechanisms of cell membrane ion transport - Ion transport and electrical properties of giant-celled aiga
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
R01HL-13349-06 Analysis of activation process in heart muscle (guinea pigs, rabbits, human)
** R01HL-13567-06 Ion transport across cell membranes (human)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
** R01HL-14133-08 Intrarenal regulation of sodium reabsorption (dogs, hamsters, rats)
R01HL-14148-07 0008 The regional circulations - Renal circulation in hypertensive patients (also dogs)
P50HL-14212-07 0013 Correlated studies of pulmonary fibrosis - Mechanism of beryllium pathogenicity in the lung (human, rabbit, guinea pig)
** P01HL-14388-07 0168 Regulation of the circulation in pathological states - Ionic basis of depolarization (rats, tissue culture)
P01HL-14388-07 0172 Regulation of the circulation in pathological states - cAMP-dependent protein kinase from heart and vascular smooth muscle (guinea pigs)
P01HL-14388-07 0175 Regulation of the circulation in pathological states - Functional studies of selected proteins from cardiac muscle
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
P01HL-14388-07 0192 Regulation of the circulation in pathological states - Renal tubular secretion of magnesium (rats)
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)
R01HL-14720-08 Factors governing the renal excretion of acid (humans, rats)
R01HL-14775-08 Mechanisms of drug action in vascular smooth muscle (dog, rabbits)
R01HL-14820-07 Factors affecting physiology of biological membranes (human)
P60HL-15157-07 0009 Comprehensive center for sickle cell disease - Red cell membrane alterations during sickling (human)
P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
R01HL-15813-05 Cardiac anoxia--Protective effect of carbohydrate (dogs)
P01HL-15835-06 0013 Study of muscles related to heart disease - Cardiac bioenergetics (rats)
** P01HL-15835-06 0018 Study of muscles related to heart disease - Pharmacology of excitation coupling in muscle (frog, barnacles)
P01HL-15835-06 0019 Study of muscles related to heart disease - Vascular smooth muscle--Electron microscopy, excitation contraction (animal)
P01HL-15835-06 0023 Study of muscles related to heart disease - Cellular basis of the Frank-Starling curve (frogs, rats)
** R01HL-15852-06 Vascular ion transport and hypertensive mechanisms
P60HL-15999-05 0014 Miami comprehensive sickle cell center - Biochemical and morphological parameters of sickle cells (human)
R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
M P01HL-16117-05 Ion movements and membranes in cardiovascular control
** P01HL-16117-05 0003 Ion movements and membranes in cardiovascular control - Fast kinetic study of calcium membrane interactions
** P01HL-16117-05 0008 Ion movements and membranes in cardiovascular control - Arterial smooth muscle calcium fluxes and contractility (rabbits)
R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
** R01HL-16318-21 Biochemistry and pharmacology of Na-K transport
R01HL-16421-08 Oeterminants of RBC deformability and capillary flow (human, mice)
R01HL-16436-04 Role of calcium and thyroxine in heart function (rats)
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
** P01HL-16607-05 0001 Calcium ion and control of cardiovascular function - Bilayer lipid membranes, antibiotic probes, and SR function
** R01HL-16746-04 Oesign of ion-selective molecules
P01HL-16833-04 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)
P60HL-17269-04 0022 National heart and blood vessel research and demonstration center - Medicinal chemistry (rabbit, dog, guinea pig)
R01HL-17411-04 Molecular studies of red blood cell spectrin (human)
R01HL-17451-05 Oigitalis effects on cardiac automaticity mechanisms
R01HL-17452-04 Oepolarization induced cardiac automaticity (human, animals)
R01HL-17571-03 Study of membrane permeability by NMR relaxation (human)
P50HL-17648-04 0014 Study of ischemic heart disease - Antidysrhythmic drugs and mammalian cardiac Purkinje fibers (sheep, dog)
P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
R01HL-17702-04 Electro-optical dyes as probes of heart excitability
P01HL-17871-04 0013 Kidney, sodium, cardiac output, arterioles and hypertension - Perfusion pressure and renal sodium excretion (rats)
** R01HL-17878-04 Structural studies of the human erythrocyte membrane
R01HL-18003-05 Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)
R01HL-18032-03 Oevelopment of normal and myopathic mammalian heart (hamsters)
R01HL-18038-03 Structure and function of heart mitochondria (cattle)
** R01HL-18053-03 Intracellular ionic activities in heart muscle (frogs)
R01HL-18148-04 Adrenal catecholamine secretion
R01HL-18199-03 Effects of ions on vascular reactivity
R01HL-18943-03 Contractile activity of single cardiac cells
R01HL-19008-02 Carbon dioxide diffusion in lung and muscle tissues (dogs)
R01HL-19012-03 Smooth muscle of resistance vessels in hypertension (rats)
** R01HL-19129-04 Cardiac glycosides--Mechanisms of cellular actions
R01HL-19138-03 Contractile activation of skinned cardiac cells (mammals)
** R01HL-19139-03 Dispersion of diffusible indicators in the body (human, cats, dogs)
P50HL-19157-02 0001 Studies in cystic fibrosis and bronchiolitis - Laboratory core unit
P50HL-19157-02 0007 Studies in cystic fibrosis and bronchiolitis - Analysis of cystic fibrosis factors (human)
R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
R01HL-19639-02 Permeability transients of carriers, channels and heart
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-19674-02 Electrolyte permeability of single capillaries (frogs)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
R01HL-20230-02 Analysis of the action potential of cardiac muscle (sheep)
R01HL-20365-03 Molecular mechanisms of anion transport
** R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
M P01HL-20592-02 Cell biology of cardiac and skeletal muscle
P01HL-20592-02 0004 Cell biology of cardiac and skeletal muscle - Excitation, conduction and contraction--Modelling in Purkinje fibers
** P01HL-20592-02 0013 Cell biology of cardiac and skeletal muscle - Sarcoplasmic reticulum in skinned muscle cells (frogs)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number

R01HL 20711 01 Structure function relationships in red cell NA-K pumps (goats)
R01HL 20720 02 Myocardial protection during cardiopulmonary bypass (dogs)
** R01HL 20725 02 Mechanisms and cellular functions of ion transport
R01HL 20754 02 Anesthetic induced myocardial depression (rabbits)
R01HL 20878 02 Cellular aspects of lung injury (rats, rabbits)
** P60HL 20985 01 0004 Northern California sickle cell center - Characterization of irreversibly sickled cells (human)
** R01HL 21136 02 Ion activities and transport in cardiac muscle cells (sheep)
** R23HL 21150 02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
** R01HL 21179 01 Volume regulation Role of the membrane potential (amphiuma)
R01HL 21195 02 Innervation of the heart Acetylcholine receptors (frogs)
** R01HL 21217 01 Ion and 5 hydroxytryptamine transport by platelets
R01HL 21294 02 Voltage clamp of isolated cardiac Purkinje cells (dogs)
** R01HL 21314 02 Respiratory tract secretion of ions, water and mucus (human, dogs)
R01HL 21342 02 Isolation and analysis of sodium channel from heart (frogs)
R01HL 21670 01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
R01HL 21735 01 Electrophysiology after healed myocardial infarction (cats)
R01HL 21742 01 Frequency-dependent drug actions in cardiac muscle (rabbits)
** R23HL 21783 01 Ionic control of contractility in anoxic myocardium (rabbits, rats)
R01HL 21845 01 Human red cell membrane--Structure and function
R01HL 21860 18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)
R01HL 21995 01 Protein phosphorylation and adrenergic effects
** R01HL 22008 01 Left ventrivular calcium content and contractility (rats)
** R01HL 22039 02 Ion transport in cardiac muscle (dogs, rodents, cattle)
R01HL 22088 02 Metabolic basis for diabetic microangiopathy (cattle)
** R01HL 22135 01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)
R01HL 22137 02 Structure-function pathology of isolated heart cells (mice, rats)
R01HL 22231 02 Modulation of calcium control of cardiac myofibrils (rats)
R01HL 22264 01 Regulation of contraction in vascular smooth muscle (dogs)
R01HL 22552 02 Abnormal alveolar permeability and lung disease (sheep)
R01HL 22562 02 Mechanism of cardiac action potential propagation (tunicates)
** R01HL 22568 01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
R23HL 22575 01 Factors modifying cardiac digoxin effects and content (dogs, cats)
R01HL 22836 01 The spontaneously hypertensive kidney (rats)
R01HL 23128 01 Cardiac contractility--Ischemia and hypoxia (rabbits, rats)
R01HL 23138 01 Myocardial ischemia (dogs, rats, chick embryo)
** R01HL 23153 01 Mechanisms of altered CA20 transport in ischemic heart (dog, rabbit)
R01HL 23602 01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

BIOLOGICAL TRANSPORT, ION EXCHANGE AND TRANSPORT, ION CARRIERS (IONOPHORES)

SEE ALSO ANTIBIOTICS, GRAMICIDIN (UNSPECIFIED)
SEE ALSO ANTIBIOTICS, VALINOMYCIN
P01HL 06308 18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
P01HL 06308 18 0039 Mechanisms and therapy of circulatory disease - ANS in regulation of electrophysiology--Role of cyclic nulceotides (animals)
R01HL 10503 13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
P01HL 11351 12 0001 Cellular and molecular mechanisms of myocardial function - Ionic control of myocardiat contractility (animals)
** P01HL 12738 10 0109 Physiologic pharmacology and its clinical applications - Effects of calcium blockers on skeletal and cardiac muscle (cats)
** P01HL 12738 10 0110 Physiologic pharmacology and its clinical applications - Physiology and pharmacology of arrhythmias (dogs)
P01HL 13262 07 0022 Arterial wall in atherosclerosis - Mechanisms of platelet prostaglanoin formation
P50HL 14153 07 0014 Johns Hopkins Lung Center--Chronic diseases of airways - Mediator release in asthma (human)
P50HL 14217 08 0059 Specialized center of research in thrombosis Energy metabolism and platelet function (human)
P01HL 14985 07 0012 Adaptation to hypoxia Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
P60HL 15169 05 0018 Support for center for sickle cell disease Studies on sickle cell disease (human, rats, dogs)
R01HL 15580 06 Humoral control of pulmonary and systemic circulation (animals)
P01HL 15832 06 0012 Chemical structural predispositions to lung injury Contractile structures and contractility in cells of lung respiratory tract
P01HL 15835 06 0021 Study of muscles related to heart disease Fast kinetic studies in muscle subcellular organelles (animals)
M P01HL 16117 05 Ion movements and membranes in cardiovascular control
P01HL 16117 05 0001 Ion movements and membranes in cardiovascular control - Developmental studies of contractile cell functions (rats, rabbits, elasmobranch)
** P01HL 16117 05 0003 Ion movements and membranes in cardiovascular control - Fast kinetic study of calcium membrane interactions
** P01HL 16117 05 0005 Ion movements and membranes in cardiovascular control - Properties of isolated cell membranes (rabbits, cats)
** P01HL 16117 05 0007 Ion movements and membranes in cardiovascular control - Physiological and molecular properties of ionophores (dogs, rabbits)
R01HL 16318 21 Biochemistry and pharmacology of Na-K transport
** R01HL 16474 05 Antibiotic-ion interactions (model membranes)
P01HL 16607 05 0006 Calcium ion and control of cardiovascular function - Sarcomere and contractile dynamics of striated muscle cells (animals)
P01HL 16833 04 0011 Hemoglobin and red cell system in hemoglobinopathies - Relationship between hemoglobin and RBC membrane in sickling cells (human, rats)
** P01HL 16833 04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
P60HL 17269 04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat)
R01HL 17516 04 Role of androgen as a risk factor in atherogenesis (human, animals)
R01HL 17853 03 Peripheral circulation in heart failure (animals)
** R01HL 18599 02 Cardiovascular pharmacology of ionophores (dogs)
** P01HL 18708 03 0005 Oxygen, energy and contractility in cardiac tissue - Cytosolic calcium homeostasis and bioenergetics of cardiac tissue (animals)
R01HL 19044 03 Effect of drugs on development of cardiac failure (cats)
R01HL 19226 03 Vascular smooth muscle in hypertension (rats)
** R01HL 19639 02 Permeability transients of carriers, channels and heart
R01HL 20708 02 Voltage clamp of embryonic heart cell aggregates (rat and chick embryos)
P01HL 20984 02 0001 Cellular mechanisms in cardiac hypertrophy - Contractile proteins in cardiac hypertrophy (rabbits, calves)
R01HL 21195 02 Innervation of the heart--Acetylcholine receptors (frogs)
R01HL 21217 01 Ion and 5-hydroxytryptamine transport by platelets
** R23HL 21262 02 Sodium-calcium interactions in mammalian myocardium (rabbits, cats)
** R01HL 21367 02 Polyether ionophores--Synthesis of X537A and analogs
R01HL 21812 02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
R01HL 21993 01 Hypertensive hypertrophy--Effects of cardiac mechanics (rats)
R01HL 22039 02 Ion transport in cardiac muscle (dogs, rodents, cattle)
** R01HL 22239 01 The molecular basis of electrical excitability (chick embryos, rats)
R01HL 22354 01 Alpha-adrenergic effects on heart metabolism (rats)
P01HL 22619 01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
P01HL 22619 01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
P01HL 22619 01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
** R01HL 22778 01 Total synthesis of natural cardiotonic ionophores
R01HL 22836 01 The spontaneously hypertensive kidney (rats)
** R01HL 23392 01 Membrane binding and transport of calcium and potassium ionophores
R01HL 23593 01 Mast cell granules Structure and secretion (rats)

BIOLOGICAL TRANSPORT, MEMBRANE MODELS

SEE ALSO MEMBRANE, ERYTHROCYTE GHOST AND MEMBRANE
P01HL 08214 15 0025 Chemical and biological properties of lipids Biosynthesis and biological functions of plasmalogen (cattle)
P01HL 08214 15 0040 Chemical and biological properties of lipids Nuclear magnetic resonance studies of lipids
** P01HL 12157 11 0038 Functions and mechanisms of cell membrane ion transport Mechanisms and interactions of gases and ions with bilayer membranes (human)
** R01HL 12528 10 NMR relaxation of liquid crystal systems
R01HL 12760 09 Surface studies of membrane lipids and proteins
** P50HL 14147 08 0003 Specialized center of research in thrombosis Surface thrombogenicity and phospholipid vesicle physical properties
P50HL 14147 08 0014 Specialized center of research in thrombosis Theoretical models for electrostatic effects in blood clot formation
** P50HL 14147 08 0015 Specialized center of research in thrombosis - Charge related properties of phospholipid surfaces in monolayers and vesicles
R01HL 15648 06 Lipid metabolism Transport by lateral diffusion (human, rabbit, cattle)
P60HL 16008 06 0018 Wayne State University comprehensive sickle cell center - Hemoglobin S and RBC membranes--Pathogenesis of irreversibly sickled cells
R01HL 16474 05 Antibiotic-ion interactions (model membranes)
P01HL 16851 04 0001 Human red cell membrane in health and disease - Rheology of erythrocyte membrane (human, amphiuma)
P01HL 16851 04 0003 Human red cell membrane in health and disease - Modeling membrane mechanics and blood rheology
R01HL 17576 04 Role of sphingomyelin in biomembranes and bilayers (rats, other mammals)
R01HL 18048 04 Dynamics of artificial and biological membranes (human)
R01HL 18255 04 Lipid-protein interactions and calcium transport (models)
** P01HL 18577 03 0003 Lipoproteins--Cell surface interactions - Mechanism of lipid exchange in lipoproteins and cell membranes
** R01HL 19065 02 Molecular oxygen in biological fluids
R01HL 19148 03 Myocardial organelle lipid structure and function (dog, rat)
** R01HL 19392 03 Spectroscopic studies of respiratory metalloproteins
R01HL 19459 03 Dynamics of atherogenesis and lipoprotein formation (human, rabbit)
R01HL 20073 02 Blood compatible materials by fluid perfusion (human, dogs)
R01HL 20254 02 Probes of heart and nerve membranes--Fluorescent dyes
R01HL 20725 02 Mechanisms and cellular functions of ion transport
** R01HL 21404 01 Raman spectroscopy of erythrocyte and model membranes (human)
R01HL 22315 01 Intraoperative cardiac oxygen supply-demand (dogs, rabbits, rats)
R01HL 22562 02 Mechanism of cardiac action potential propagation (tunicates)
R01HL 22771 01 Thrombogenic phospholipid surfaces (cattle)
** R01HL 23183 01 Voltage dependent conductance in membranes

BIOLOGICAL TRANSPORT, MEMBRANE PERMEABILITY AND TRANSPORT

SEE ALSO CARDIOVASCULAR SYSTEM, ENDOTHELIUM PERMEABILITY
SEE ALSO CEREBROVASCULAR SYSTEM, BLOOD-BRAIN BARRIER
SEE ALSO CEREBROVASCULAR SYSTEM, BLOOD-CEREBROSPINAL FLUID BARRIER
SEE ALSO GASTROINTESTINAL FUNCTION, ABSORPTION-TRANSPORT (GENERAL)
SEE ALSO KIDNEY FUNCTION, GLOMERULAR FILTRATION
SEE ALSO KIDNEY FUNCTION, RENAL TUBULAR TRANSPORT
SEE ALSO MEMBRANE, MEMBRANE (BIOLOGICAL) STRUCTURE
SEE ALSO METABOLIC DISORDERS INBORN, TRANSPORT DISORDERS
SEE ALSO PREGNANCY CIRCULATION, PLACENTAL TRANSFER
SEE ALSO RESPIRATORY FUNCTION, PULMONARY DIFFUSION
SEE ALSO SKIN ABSORPTION
** R01HL 00082 30 Transmembrane movements (barnacles, frogs, rats)
R01HL 02334 23 Micropuncture study of kidney function (rats, animals)
R01HL 04457 20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
** P01HL 06285 18 0195 Cardiovascular-respiratory physiology and biochemistry - Thyroid thermogenesis and sodium transport (rats)
P01HL 06285 18 0196 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Epithelial cell membranes (toads)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-06285-18 0197 Cardiovascular-respiratory physiology and biochemistry - Microperfusion and micropuncture of renal tubules (hamsters, desert rats)
** P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)
P01HL-06285-18 0200 Cardiovascular-respiratory physiology and biochemistry - Medullary counter-current system (animals)
** P01HL-06285-18 0203 Cardiovascular-respiratory physiology and biochemistry - Pathways of lipid transport in the blood (animals)
** P01HL-06285-18 0204 Cardiovascular-respiratory physiology and biochemistry - Lipoprotein lipase and triglyceride transport in chylomicrons (guinea pig, rat)
P01HL-06285-18 0211 Cardiovascular-respiratory physiology and biochemistry - Purple membrane of Halobacteria
P01HL-06285-18 0212 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gap junction (bovine)
P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)
M P01HL-06664-17 Cardiopulmonary function in remediable vascular disease
P01HL-06664-17 0036 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
** P01HL-06664-17 0038 Cardiopulmonary function in remediable vascular disease - The dynamics of ADH-stimulated osmotic water flow
** P01HL-06664-17 0040 Cardiopulmonary function in remediable vascular disease - The coupling of ion transport to metabolism (toads)
** P01HL-08805-15 0042 Regulation of ventilation and pulmonary circulation - Electron microscope core research laboratory
** P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo--Capillary membrane in normal pulmonary hypertensive lung
** R01HL-08893-14 Structure and function of membrane proteins (human)
P01HL-08899-14 0073 Tolerance to respiratory gases in health and disease - Biophysical mechanisms involved in isobaric gas counterdiffusion syndrome
R01HL-08977-14 Quantitation of flow and solute flux in microvessels (cats, rats)
** R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
R01HL-09364-14 Ion transport by heart mitochondria (cattle, rat, rabbit)
R01HL-09610-14 Control of cholesterol metabolism--Bile acid transport
M R01HL-09906-13 Membrane transport processes in red blood cells
R01HL-09906-13 0021 Membrane transport processes in red blood cells - Membrane potentials in human red blood cells due to proton gradients
R01HL-09906-13 0022 Membrane transport processes in red blood cells - Anion transport in dog and cat red cells
** R01HL-09906-13 0024 Membrane transport processes in red blood cells - Inhibition of sulfate transport in human RBCs by isothiocyanic acid esters
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
** R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
R01HL-11153-12 Quantitation of flow and solute flux in microvessels (cats, rats)
** P01HL-11310-12 0102 Mechanisms of cardiovascular disease - Cardiac membrane and ion mobility (dogs)
** R01HL-11901-12 0017 Effects of metabolic surgery on the hyperlipidemias - Membrane permeability, blood viscosity, oxygen uptake--Rheology studies (rabbits)
** P01HL-12157-11 0033 Functions and mechanisms of cell membrane ion transport - Immunology aspects of active Na-K transport in sheep red cell (also human, mice)
** P01HL-12157-11 0056 Functions and mechanisms of cell membrane ion transport - Isotopic fluxes in synthetic strands of heart cells (chick embryo)
** P01HL-12157-11 0057 Functions and mechanisms of cell membrane ion transport - Electrophysiological investigations of synthetic strands of heart muscles (rats)
** P01HL-12157-11 0058 Functions and mechanisms of cell membrane ion transport - Ionic and osmotic regulation in toadfish--A euryhaline aglomerular teleost
R01HL-12528-10 NMR relaxation of liquid crystal systems
P01HL-12738-10 0044 Physiologic pharmacology and its clinical applications - Cardioactive drugs and electrophysiological properties of cardiac cells (sheep)
P01HL-12738-10 0110 Physiologic pharmacology and its clinical applications - Physiology and pharmacology of arrhythmias (dogs)
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
R01HL-12879-09 0002 Pulmonary transport and metabolism in vivo - Osmotic compartmental model of barrior exchange
** R01HL-12879-09 0011 Pulmonary transport and metabolism in vivo - Membrane characteristics of lung cells (human, animals)
** R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
R01HL-13028-09 Regulation of myocardial fatty acid metabolism (rats)
R01HL-13029-09 Metabolic regulation of sugar transport (pigeons, rats)
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
** R01HL-13237-09 Erythrocytes during early development (human, animals)
** R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
** R01HL-13596-07 Clearance of plasma proteins from alveoli
R01HL-13645-11 Tryptophan-induced pulmonary emphysema (cattle, goats, rabbits)
R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)
P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
P01HL-14388-07 0192 Regulation of the circulation in pathological states - Renal tubular secretion of magnesium (rats)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
** P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
R01HL-14781-08 Lipid deposition in mammalian cells (mice)
** R01HL-14820-07 Factors affecting physiology of biological membranes (human)
R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
P60HL-15157-07 0011 Comprehensive center for sickle cell disease - Development of specific anti-sickling compound (human)
** P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
P60HL-15162-07 0017 Comprehensive sickle cell center - Hemoglobin, erythrocytes and sickle cell anemia (human, rabbit)
P60HL-15162-07 0020 Comprehensive sickle cell center - Biophysical studies of normal and sickle red cells (human)
R01HL-15504-05 Animal model for studies on averting atherosclerosis (swine)
R01HL-15622-05 Computer simulation in cardiology (rats, dogs)
** R01HL-15793-06 Molecular aspects of erythrocyte membrane resealing (human)
P01HL-15835-06 0021 Study of muscles related to heart disease - Fast kinetic studies in muscle subcellular organelles (animals)
** P60HL-15999-05 0014 Miami comprehensive sickle cell center - Biochemical and morphological parameters of sickle cells (human)
P60HL-16008-06 0018 Wayne State University comprehensive sickle cell center - Hemoglobin S and RBC membranes--Pathogenesis of irreversibly sickled cells
R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
** P01HL-16117-05 0007 Ion movements and membranes in cardiovascular control - Physiological and molecular properties of ionophores (dogs, rabbits)
R01HL-16328-06 Membrane electrical properties of vascular muscle (human, animals)
R01HL-16474-05 Antibiotic-ion interactions (model membranes)
R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
R01HL-16582-05 Artificial lungs (dogs)
P01HL-16607-05 0001 Calcium ion and control of cardiovascular function - Bilayer lipid membranes, antibiotic probes, and SR function
P01HL-16607-05 0005 Calcium ion and control of cardiovascular function - Chemical modifications of the sarcoplasmic reticulum membranes (rabbits)
** R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions
** R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)
** R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
R01HL-16746-04 Design of ion-selective molecules
** P01HL-16833-04 0008 Hemoglobin and red cell system in hemoglobinopathies - Membrane associated phenomena in SS disease
** P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
P01HL-16833-04 0017 Hemoglobin and red cell system in hemoglobinopathies - Sulfhydryl group blockade antisickling effect (human)
** P01HL-16851-04 0006 Human red cell membrane in health and disease - Hexose transport and erythrocyte membrane proteins (human)
P60HL-17269-04 0022 National heart and blood vessel research and demonstration center - Medicinal chemistry (rabbit, dog, guinea pig)
P60HL-17269-04 0045 National heart and blood vessel research and demonstration center - Regulation of lipogenesis in hyperlipoproteinemia (human, tissue culture)
** R01HL-17411-04 Molecular studies of red blood cell spectrin (human)
R01HL-17452-04 Depolarization induced cardiac automaticity (human, animals)
** R01HL-17571-03 Study of membrane permeability by NMR relaxation (human)
** R01HL-17576-04 Role of sphingomyelin in biomembranes and bilayers (rats, other mammals)
** R01HL-17596-03 Leukocyte-endothelial interactions (rats)
P50HL-17648-04 0014 Study of ischemic heart disease - Antidysrhythmic drugs and mammalian cardiac Purkinje fibers (sheep, dog)
** P50HL-17669-04 0022 Ischemic heart disease center (SCOR) - Pathological studies of human and experimental ischemic heart disease
R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
R01HL-17902-04 Mammalian renal microcirculation (hamsters)
** R01HL-17967-04 Limiting factors in oxygen uptake in the lung
R01HL-17998-04 Regulatory mechanisms in blood circulation (dogs)
R01HL-18022-03 Role of multicomponent diffusion in gas exchange (avian eggs)
** R01HL-18028-03 Absorption of nonvolatile compounds from the lung
R01HL-18038-03 Structure and function of heart mitochondria (cattle)
** R01HL-18048-04 Dynamics of artificial and biological membranes (human)
R01HL-18053-03 Intracellular ionic activities in heart muscle (frogs)
R01HL-18068-02 Chemistry and activity of homologous heparin fractions (rodents)
R01HL-18148-04 Adrenal catecholamine secretion
R01HL-18206-04 Regulation of metabolism in oxygen deficient hearts (rats)
R01HL-18226-04 Mechanism of oxygen supply to tissue (human, animals)
** R01HL-18255-04 Lipid-protein interactions and calcium transport (models)
R01HL-18292-04 Vasodilation and microvascular oxygen delivery (dog, hamster)
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
R01HL-18647-03 Ischemic myocardial injury in cultured heart cells (rats)
R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
R01HL-18798-04 0001 Nervous and ionic factors in sudden cardiac death - Potassium loss during myocardial ischemia (rabbits)
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
** R01HL-19000-03 Irreversible myocardial injury (rats)
** R01HL-19068-03 Changes in membrane properties during erythropoiesis (chick embryo)
R01HL-19082-01 Hypoxia-induced relaxation of vascular smooth muscle
R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
P50HL-19153-02 0004 SCOR--Pulmonary edemas--Eitology, pathogenesis - Physical mechanisms in lung transvascular transport--Math models (sheep)
P50HL-19153-02 0005 SCOR--Pulmonary edemas--Eitology, pathogenesis - Lung vascular permeability measured by indicator dilution methods (sheep)
P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
** R01HL-19316-03 Study of glomerular permeability (fish, turtle, frog, chordates, crustacea)
R01HL-19399-02 Atherosclerosis--Early events and regression factors (rats)
R01HL-19463-02 Pathophysiology of acute renal failure (rats)
** R01HL-19639-02 Permeability transients of carriers, channels and heart
** R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
** R01HL-19733-03 Absorption of antigen through inflamed lungs (rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport
** P01HL-19737-02 0008 Cellular and molecular aspects of respiratory physiology - Kinetics of movement of acid metabolites from cell to capillary blood (dogs)
R01HL-20061-02 Serum lipoproteins and cell cholesterol metabolism (rats, human)
R01HL-20070-02 Alpha 1-antitrypsin deficiency (human, hamsters)
R01HL-20073-02 Blood compatible materials by fluid perfusion (human, dogs)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
** R01HL-20177-02 Effects of erythrocyte deformability on tissue perfusion (rats)
R01HL-20230-02 Analysis of the action potential of cardiac muscle (sheep)
R01HL-20254-02 Probes of heart and nerve membranes--Fluorescent dyes
R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
** R01HL-20303-03 Cholesterol distribution in erythrocyte membrane (human, animals)
** R01HL-20308-02 Regulation of myocardial acylcarnitine transport (rats)
R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
R01HL-20544-02 Integrated regulation of myocardial energy metabolism (rats, guinea pigs)
** P01HL-20592-02 0013 Cell biology of cardiac and skeletal muscle - Sarcoplasmic reticulum in skinned muscle cells (frogs)
** R01HL-20708-02 Voltage clamp of embryonic heart cell aggregates (rat and chick embryos)
R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-20859-02 Beta adrenergic catecholamine receptor
R01HL-20882-02 Interactions of plasma lipoproteins with erythrocytes (Rhesus, human)
** P60HL-20985-01 0004 Northern California sickle cell center - Characterization of irreversibly sickled cells (human)
P60HL-20985-01 0006 Northern California sickle cell center - Antisickling properties of imidoesters (human, rats)
P01HL-20994-02 0007 Dynamics of neutrophil elastase in the lung - The etiology of experimental emphysema (dogs)
R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)
R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
P01HL-21016-02 0008 Sickle cell anemia and other hemoglobinopathies - The clinical variations of sickle cell anemia
R01HL-21038-01 Electrically induced cardiac EM-histochemical changes (animals)
R23HL-21050-02 Mechanisms of re-expansion pulmonary edema (rabbits)
R01HL-21076-02 Lung fluid, protein exchange after hemorrhagic shock (sheep)
R01HL-21099-02 Subcellular changes of blood vessels in hypertension (rats)
R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)
R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
R01HL-21179-01 Volume regulation--Role of the membrane potential (amphiuma)
R01HL-21195-02 Innervation of the heart--Acetylcholine receptors (frogs)
R23HL-21213-01 A model for calcium homeostasis in excitable tissue (marine worms)
** R01HL-21217-01 Ion and 5-hydroxytryptamine transport by platelets
R01HL-21294-02 Voltage clamp of isolated cardiac Purkinje cells (dogs)
** R01HL-21376-02 Blood-gas barrier solute and water transport (rabbits)
** R01HL-21469-01 Active transport and effect of CA00 in sickle cell (human)
R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
** R01HL-21845-01 Human red cell membrane--Structure and function
** R01HL-21849-02 Control of sodium transport and cellular respiration (toad bladder)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
** R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)
R01HL-22177-02 Mechanisms of control of pulmonary smooth muscle (dogs)
R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
R01HL-22281-01 Microprobe analysis and metabolite levels of ischemic myocardium (dogs)
** R01HL-22327-01 Transport of arterial blood gases through skin (swine)
R01HL-22502-01 Role of phosphoinositides in human platelet secretion
** R01HL-22549-02 Transport across alveolar capillary membrane (dogs)
** R01HL-22552-02 Abnormal alveolar permeability and lung disease (sheep)
R01HL-22562-02 Mechanism of cardiac action potential propagation (tunicates)
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
** R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
R01HL-22883-01 Lung epithelial cell interactions in vitro
** R01HL-22924-01 The airway mucosal barrier (guinea pigs)
** R01HL-22981-17 Membrane-associated functions in microorganisms (bacteria, protozoa)
R01HL-23015-01 Mechanisms of hypo-oncotic pulmonary edema (human, dogs)
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)
R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)
R01HL-23153-01 Mechanisms of altered CA20 transport in ischemic heart (dog, rabbit)
R01HL-23166-01 Pathology of mitochondria in ischemic myocardium (rats, cattle)
** R01HL-23183-01 Voltage dependent conductance in membranes
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
** R01HL-23392-01 Membrane binding and transport of calcium and potassium ionophores

BIOLOGICAL TRANSPORT, PASSIVE TRANSPORT

P01HL-06285-18 0199 Cardiovascular-respiratory physiology and biochemistry - Renal tubular reabsorption of sodium chloride (hamsters, rabbits)
P01HL-06308-18 0035 Mechanisms and therapy of circulatory disease - Mechanisms for electrophysiological changes in myocardial infarction (dogs)
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
R01HL-13029-09 Metabolic regulation of sugar transport (pigeons, rats)
P01HL-14388-07 0192 Regulation of the circulation in pathological states - Renal tubular secretion of magnesium (rats)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
P60HL-20985-01 0004 Northern California sickle cell center - Characterization of irreversibly sickled cells (human)
R23HL-21213-01 A model for calcium homeostasis in excitable tissue (marine worms)
R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)

BIOLOGICAL TRANSPORT, PASSIVE TRANSPORT, DIFFUSION

R01HL-08977-14 Quantitation of flow and solute flux in microvessels (cats, rats)
R01HL-12760-09 Surface studies of membrane lipids and proteins
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
** R01HL-15648-06 Lipid metabolism--Transport by lateral diffusion (human, rabbit, cattle)
** R01HL-18004-02 Transport through arterial wall--Biophysical aspects (rabbits)
R01HL-18736-03 Protein transport through arterial tissue (rabbits)
** R01HL-19008-02 Carbon dioxide diffusion in lung and muscle tissues (dogs)
R01HL-19065-02 Molecular oxygen in biological fluids
R01HL-19454-02 Rheological factors in transport across arterial wall (dogs)
** R01HL-19491-03 Mechanism of iron storage and mobilization by ferritin (horse)
R01HL-22235-01 Mechanism of cardiac pacemaking (rabbits)
R01HL-22843-01 Pulmonary physiology in liquid ventilation (lambs)

BIOLOGICAL TRANSPORT, PASSIVE TRANSPORT, OSMOSIS

SEE ALSO BODY FLUID BALANCE, OSMOTIC PRESSURE
SEE ALSO CELL FLUIDS, OSMOTIC PRESSURE
R01HL-09906-13 0019 Membrane transport processes in red blood cells - Hemoglobin change and membrane potentials in red blood cells at varying volumes
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
R01HL-19320-03 Angiotensin neuropharmacology - Relationship to sodium
R01HL-21179-01 Volume regulation--Role of the membrane potential (amphiuma)

BIOLOGICAL TRANSPORT, SECRETORY MECHANISMS

R01HL-01770-26 Structural aspects of lung surfactant system (rats)
R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
R01HL-02751-21 Function and metabolism of serum albumin (mammals, fish, amphibians)
** P01HL-03174-23 0009 Mechanisms of acute vascular reaction to injury - Mast cell lipid interaction (human, rats)
R01HL-03181-21 0027 Hemodynamics as applied to surgical problems - Hemodynamic studies of the GI tract (dogs)
P01HL-06285-18 0189 Cardiovascular-respiratory physiology and biochemistry - Mucociliary clearance (cats, dogs)
** P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)
P01HL-06285-18 0200 Cardiovascular-respiratory physiology and biochemistry - Medullary counter-current system (animals)
P01HL-06835-17 0038 Cardiovascular disease - Effect of chronic administration of angiotensin antagonist (rats)
P01HL-06835-17 0056 Cardiovascular disease - Angiotensin analogs--Sarcosine on arterial pressure, aldosterone (dogs)
P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation of renal function (dogs)
P01HL-09011-15 0015 A research and resource program in blood - Regulation of synthesis and transport of diverse proteins in liver (rats)
R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
** R01HL-10612-13 0020 Humoral factors in heart failure and hypertension - The control of renin release in the dog
** R01HL-10612-13 0021 Humoral factors in heart failure and hypertension - The control of aldosterone secretion (dogs)
P01HL-11678-11 0046 Cardiovascular dynamics and their control - Regulation of aldosterone secretion and related factors (dogs)
P01HL-11678-11 0047 Cardiovascular dynamics and their control - Unidentified pituitary factor in regulation of aldosterone secretion (rats)
** P01HL-11678-11 0066 Cardiovascular dynamics and their control - Closed-loop analysis of the aldosterone control system (dogs)
R01HL-11901-12 0014 Effects of metabolic surgery on the hyperlipidemias - Effect of bypass on gastrin levels (dogs, human)
R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
** R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)
R01HL-13885-08 0009 Cystic fibrosis and pulmonary disease - Respiratory mucus glycoproteins (human, rabbits)
** R01HL-13917-20 Secretion and effects of adrenal hormones (human, rabbits, sheep)
P50HL-14147-08 0018 Specialized center of research in thrombosis - Biochemical aspects of platelet function in thrombosis and cell growth (human)
P50HL-14214-07 0021 Newborn lung center for hyaline membrane disease - Development of surfactant system--Surfactant production and release (rat, rabbit)
P50HL-14214-07 0022 Newborn lung center for hyaline membrane disease - Functional integrity of surfactant system--Hyaline membrane disease (lamb, rat)
P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
P50HL-14237-07 0004 Support for arteriosclerosis center - Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
** P01HL-14388-07 0192 Regulation of the circulation in pathological states - Renal tubular secretion of magnesium (rats)
R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
R01HL-15427-06 Secretion of plasma lipoproteins (rats)
P01HL-15832-06 9001 Chemical-structural predispositions to lung injury - Tissue culture studies of lung cell function--Core facility
P01HL-16137-05 0008 Alveolar biology - Macromolecular events in pulmonary cells in toxic environments (animals)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
** R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-18019-04 The endocrine kidney in hypertension (mice)
** R01HL-18148-04 Adrenal catecholamine secretion
R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)
P01HL-18575-03 0005 Mechanisms of vascular changes in hypertension - Renin synthesis in normotensive and hypertensive pigs (also rats, dogs)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
R01HL-18876-03 Human alpha-1-antitrypsin synthesis in vitro
** R01HL-18937-03 Cyclic nucleotides and calcium in platelets (human)
R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
P50HL-19157-02 0003 Studies in cystic fibrosis and bronchiolitis - Nasal mucosal function in patients with cystic fibrosis
** P50HL-19157-02 0004 Studies in cystic fibrosis and bronchiolitis - Macromolecular regulators of mucus secretion--Invertebrate model
P50HL-19157-02 0007 Studies in cystic fibrosis and bronchiolitis - Analysis of cystic fibrosis factors (human)
M P50HL-19160-02 Mucus abnormality in cystic fibrosis
** P50HL-19160-02 0001 Mucus abnormality in cystic fibrosis - Regulation of respiratory secretions (rat, human)
** P50HL-19160-02 0002 Mucus abnormality in cystic fibrosis - Ultrastructure, cytochemistry of pulmonary secretion (human, rat)
R01HL-19168-03 Biosynthesis of plasma lipoprotein (rats, rabbits)
** P50HL-19185-02 0001 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sites of synthesis, secretion and structure of surface active material (rat)
** P50HL-19185-02 0003 Pulmonary SCOR--Neonatal respiratory distress syndromes - Factors affecting formation and release of pulmonary surfactant in fetal lambs
P50HL-19187-02 0004 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Surface active material, lamellar bodies (mice, rats)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
** R01HL-20278-02 Cellular mechanisms of renin secretion (rats)
** R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
R01HL-20868-02 Regulation of glycoprotein biosynthesis in lung (swine)
P50HL-21006-02 0003 Specialized center of research in arteriosclerosis - Transport of vitamin A in plasma (human, rat)
R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
R23HL-21369-02 Tracheal mucin synthesis in experimental bronchitis (rats)
R23HL-21413-02 Structure and function of platelet calcium-binding protein (human)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
R01HL-22051-01 Role of angiotensin II in vasopressin release (human)
** R01HL-22333-01 Cellular basis of small airways function (rats)
** R01HL-22444-01 Bronchial mucus production in organ culture (human)
** R01HL-22502-01 Role of phosphoinositides in human platelet secretion
R01HL-22561-01 Hormonal control of mesenteric circulation (cats)
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
** P01HL-22633-01 0001 Cellular and molecular biology of lipoprotein metabolism - Secretion of lipoproteins by the perfused liver (rats, rabbits)
** R23HL-22728-01 Neural control of renin secretion (dogs)
R01HL-22812-01 Regulation of hepatic production of HDL (rats)
R01HL-22883-01 Lung epithelial cell interactions in vitro
R01HL-23593-01 Mast cell granules--Structure and secretion (rats)

BIOLOGICAL TRANSPORT, SECRETORY MECHANISMS, EXCRETION

P50HL-14164-07 0037 A/S SCOR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
P01HL-14388-07 0225 Regulation of the circulation in pathological states - Release of renal prostaglandins by saluretic-diuretic agents (dogs)
R01HL-14720-08 Factors governing the renal excretion of acid (humans, rats)
R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
R01HL-19008-02 Carbon dioxide diffusion in lung and muscle tissues (dogs)
R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)

BIOLOGICAL TRANSPORT, TRANSPORT EFFECTORS

SEE ALSO BIOLOGICAL TRANSPORT, ION EXCHANGE AND TRANSPORT, ION CARRIERS (IONOPHORES)
SEE ALSO BIOLOGICAL TRANSPORT, TRANSPORT PROTEINS (SEE ALSO SPECIFICS)
** P01HL-06312-17 0034 Surgical cardiology - Metabolic factors in cardiac function--Creatine phosphate depletion (animals)
R01HL-13029-09 Metabolic regulation of sugar transport (pigeons, rats)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
R01HL-17452-04 Depolarization induced cardiac automaticity (human, animals)
R01HL-18003-05 Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)
R01HL-19733-03 Absorption of antigen through inflamed lungs (rabbits)
** R01HL-20308-02 Regulation of myocardial acylcarnitine transport (rats)
R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
R01HL-22444-01 Bronchial mucus production in organ culture (human)
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
R23HL-22882-01 Modulation by disease of effect of furosemide in man
R01HL-23161-01 0002 Biology of myocardial ischemia - Palmitylcarnitine inhibition of ion pumps in myocardial ischemia (dog, sheep)

BIOLOGICAL TRANSPORT, TRANSPORT ENERGETICS

R01HL-13029-09 Metabolic regulation of sugar transport (pigeons, rats)
P50HL-14212-07 0013 Correlated studies of pulmonary fibrosis - Mechanism of beryllium pathogenicity in the lung (human, rabbit, guinea pig)
** R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
R01HL-15622-05 Computer simulation in cardiology (rats, dogs)
R01HL-15813-05 Cardiac anoxia--Protective effect of carbohydrate (dogs)
R01HL-17729-04 Stimulus-response coupling in platelets (human)
R01HL-20308-02 Regulation of myocardial acylcarnitine transport (rats)
R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)

BIOLOGICAL TRANSPORT, TRANSPORT PROTEINS (SEE ALSO SPECIFICS)

SEE ALSO ENDOCRINOLOGY, HORMONE BINDING PROTEINS
SEE ALSO HEMOPROTEINS, HAPTOGLOBINS
SEE ALSO METALLOPROTEINS, CERULOPLASMIN
SEE ALSO METALLOPROTEINS, FERRITIN
SEE ALSO METALLOPROTEINS, TRANSFERRIN
SEE ALSO PORPHYROPROTEINS, METALLOPORPHYROPROTEINS
SEE ALSO PROTEIN BINDING
SEE ALSO PROTEINS, Z PROTEIN
R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)
R01HL-05360-19 Cholesterol biosynthesis and its control in liver (rats)
** R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
R01HL-08634-15 Enzymic cholesterol synthesis (human, rats, protozoa, yeast)
** R01HL-08893-14 Structure and function of membrane proteins (human)
R01HL-10933-13 Fat metabolism and atherosclerosis (rabbits, cattle, human, rats)
R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
R01HL-15263-06 Lecithin--Cholesterol acetyltransferase (human, rabbits)
R01HL-15648-06 Lipid metabolism--Transport by lateral diffusion (human, rabbit, cattle)
R01HL-16628-05 Regulation of lipid metabolism (rats)
R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions
R01HL-17371-05 Regualtion of cholesteryl ester levels in the aorta (swine)
R01HL-17463-03 Composition and structure of plasma lipoproteins (human, rabbits)
R01HL-17879-04 Molecular structure of the ouabain sensitive ATPase (dogs)
R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
** P01HL-18208-04 0007 Center for the study of blood cell rheology - RBC membrane protein (human)
R01HL-18255-04 Lipid-protein interactions and calcium transport (models)
P01HL-18577-03 0005 Lipoproteins--Cell surface interactions - Chemical synthesis of apolipoproteins and apoliprotein fragments
R01HL-18619-03 Transferrin iron binding and transport properties (chicken, rabbit, human)
R01HL-18746-02 Chemical studies on proteolipid apoproteins (cattle)
R01HL-20365-03 Molecular mechanisms of anion transport
R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
R01HL-20882-02 Interactions of plasma lipoproteins with erythrocytes (Rhesus, human)
** P50HL-21006-02 0003 Specialized center of research in arteriosclerosis - Transport of vitamin A in plasma (human, rat)
R01HL-21217-01 Ion and 5-hydroxytryptamine transport by platelets

BIOLOGICAL TRANSPORT, TRANSPORT PROTEINS, PERMEASES

R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)

BIOLOGICAL TRANSPORT, TRANSPORT PROTEINS, PERMEASES, GLUCOSE PERMEASES

R01HL-08893-14 Structure and function of membrane proteins (human)
R01HL-13237-09 Erythrocytes during early development (human, animals)

BIOLOGICALS RESOURCES

SEE BIOLOGICAL PREPARATIONS AND STANDARDIZATION
SEE IMMUNOLOGICAL PREPARATIONS (GENERAL)(INCLUDING CERTIFICATION AND STANDARDIZATION)

BIOLOGY (GENERAL)*

SEE ALSO PHOTOBIOLOGY
SEE ALSO WATER ENVIRONMENT, AQUATIC BIOLOGY
SEE ALSO WATER ENVIRONMENT, MARINE BIOLOGY
** P01HL-20993-02 0009 Population dynamics of arterial cells in atherogenesis - Mathematical biology--Core
R13HL-22068-01 Conference on 'The Internal Environment' (California)

BIOLOGY, LIFE CYCLE

R01HL-18629-04 Influence of aging and hypertension on the myocardium (rats)

BIOLOGY, POLYMORPHISM

P01HL-03174-23 0006 Mechanisms of acute vascular reaction to injury - Atherosclerotic plaque studies using mosaic analysis (human)
R01HL-04366-19 Plasminogen--Activation and structure-function relations (mammals, birds)
P01HL-09011-15 0001 A research and resource program in blood - Genetic markers of human blood and gene mapping (human)
P01HL-09011-15 0012 A research and resource program in blood - Theoretical population genetics (human)
R01HL-15808-06 Role of angiotensinogen in hypertension and stroke (human, rabbits)
R01HL-17194-03 Comparison of two inherited forms of alpha-1-antitrypsin (human)
P60HL-17265-04 0008 Community blood resource center support - Research--Blood genetic markers as biological probes (human)
P01HL-17419-04 0001 Studies on mechanisms of hemostasis - Structure and metabolism of fibrinogen (human)
R01HL-17881-15 Biosynthesis and degradation of blood group substances (human, animals)
R01HL-18612-03 Thin filament control of heart contraction (cattle)
** P01HL-21016-02 0008 Sickle cell anemia and other hemoglobinopathies - The clinical variations of sickle cell anemia
** R01HL-21665-01 Collagen polymorphism and arterial structure (monkeys, guinea pigs)
R23HL-22799-01 Interaction of the complement and coagulation systems (monkeys)
** R01HL-23194-02 Genetics of hypertension and associated variables (human)

BIOLOGY, SYSTEMATIC

SEE ALSO MICROBIAL IDENTIFICATION AND CLASSIFICATION (TECHNIQUES)
P01HL-08214-15 0048 Chemical and biological properties of lipids - Lipids in microorganisms and plants

BIOLOGY, SYSTEMATIC, EVOLUTION AND PHYLOGENY

R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
R01HL-02751-21 Function and metabolism of serum albumin (mammals, fish, amphibians)
R01HL-06950-17 Red cell metabolism (human, vertebrates)
** R01HL-07047-16 Comparative study of cardiac conduction system (human, birds, mammals)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-08299-16 Molecular biology of homarythrin and hamocyanin (invertabratas)
R01HL-12486-10 Structure-function corralation in the atrium (rabbits)
R01HL-17407-05 Paripharal circulation and fluid balance (fish, mammals, human)
R01HL-18082-03 Erythrocyte phosphatas and vertebrate gas transport (amphibians, reptiles)
** R01HL-18868-03 Development of vertabrata vascular control systems (reptiles, amphibians)
R01HL-20800-17 Neural basis of respiratory and vasomotor activity (cats)
** R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)

BIOLOGY, SYSTEMATIC, EVOLUTION BIOCHEMICAL

R01HL-02212-23 Coagulation of blood (human)
R01HL-04366-19 Plasminogen--Activation and structure-function relations (mammals, birds)
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
R01HL-10642-18 Plasma cholesterol metabolism (human, macaca)
R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)
R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)

BIOLOGY, SYSTEMATIC, GENETIC STRAINS

P01HL-06835-17 0018 Cardiovascular disease - Fatty acid concentration (rats)
P01HL-06835-17 0019 Cardiovascular disease - Fatty acid distribution (rats)
** R01HL-10942-09 Study of genetic hypertension in rats
P50HL-14164-07 0027 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (squirrel monkey)
P50HL-14164-07 0028 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (African green monkey)
** P50HL-14164-07 0029 A/S SCOR--Comparative and experimental atherosclerosis - Development of pigeon substrains
** P50HL-14164-07 0037 A/S SCOR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
P50HL-14164-07 0044 A/S SCOR--Comparative and experimental atherosclerosis - Cell biology-atherosclerosis project (pigeons)
P50HL-14236-05 0005 Prevention of premature arteriosclerosis - Genetically hyperlipidemic and hypolipidemic rats
** R01HL-14913-06 Hypertension--Genetic influence of kidney (rats)
P01HL-16833-04 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)
P01HL-17430-05 0001 Control of coagulation - Porcine von Willebrand's disease
R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)
R01HL-18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)
P01HL-18576-03 0009 Thrombosis research program project - Biology of factor VII (human, rabbits, cattle)
P01HL-18646-03 0003 Studies basic to heart transplantation - Host responses to xenografts (rodents, rabbits)
R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)
R01HL-18831-03 Microscopy of spontaneously hypertensive arterial lesion (rats)
R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
R01HL-19027-03 Calcium and cyclic AMP in causation of hypertension (rats)
** P50HL-19362-02 0004 A/S SCOR--Atherosclerosis in nonhuman primates - Selective breeding for characters related to atherosclerosis (baboons)
P50HL-19362-02 0012 A/S SCOR--Atherosclerosis in nonhuman primates - Induction of chronic hypertension by salt loading (baboon)
** R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)
R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
R01HL-20446-02 Autonomic neuropathy in diabetic mice (also rats)
M R01HL-20572-02 Hemodynamic relations to metabolism in hypertension
** R01HL-20572-02 0001 Hemodynamic relations to metabolism in hypertension - Hemodynamic and myocardial functional studies in the SHR (rat)
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)
R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)
** R23HL-22959-01 Heart development in inherited cardiomyopathy (hamsters)
N01HV-62905-02 Non-human primate models of arteriosclerosis

BIOLOGY, SYSTEMATIC, SPECIES

R01HL-01979-22 Arteriosclerosis in zoo animals on controlled diets (animals)
P01HL-03174-23 0007 Mechanisms of acute vascular reaction to injury Healing of injured myocardium Basal lamina scaffold (human, rats, dogs)
P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)
P01HL-06285-18 0203 Cardiovascular-respiratory physiology and biochemistry Pathways of lipid transport in the blood (animals)
P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
P01HL-07896-15 0033 Environmental biomedical research program Breathing mechanism in birds
** P01HL-08974-14 0024 Natural and experimental atherosclerosis - Atherosclerosis, sterol and lipoprotein metabolism in nonhuman primates
R01HL-10612-13 0019 Humoral factors in heart failure and hypertension - Pathogenesis of hypertension in the spontaneous hypertensive rat
P01HL-11351-12 0023 Cellular and molecular mechanisms of myocardial function - Energetics of mammalian muscle (rats)
** R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
** R01HL-15888-05 Comparative stereology of the myocardium (birds, mammals)
R01HL-16119-05 Spleen and marrow allografts in hereditary anemia (mice)
P01HL-16137-05 0001 Alveolar biology - Chemical characterization of surfactant system--Lipid and lipid protein fractions
P01HL-16137-05 0008 Alveolar biology - Macromolecular events in pulmonary cells in toxic environments (animals)
P01HL-16607-05 0003 Calcium ion and control of cardiovascular function - Calcium transport in sarcoplasmic membranes (animals)
P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
R01HL-16860-05 Mossbauer studies of respiratory hemoproteins
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
P01HL-17430-05 0007 Control of coagulation - Platelet adhesion, aggregation, ultrastructure in flowing blood (human, animals)
R01HL-17567-03 Lipoprotein-cytolytic toxin interaction (Staphylococcus aureus, mammals, human)
P01HL-17731-04 0003 Physiological basis of pulmonary disease - Comparative physiology (vertebrates)
** R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
R01HL-17947-04 Experimental renal and neurogenic hypertension (human, animals)
R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18226-04 Mechanism of oxygen supply to tissue (human, animals)
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
P01HL-18646-03 0003 Studies basic to heart transplantation - Host responses to xenografts (rodents, rabbits)
P50HL-19362-02 0005 A/S SCOR--Atherosclerosis in nonhuman primates - Hybridization to produce primate model of atherosclerosis (baboon, Rhesus)
P01HL-19717-02 0001 Response of the lung to injury - Lung elastic tissue (animals)
R01HL-20206-02 Carbohydrates-nucleotides and adrenergic interactions (rabbits, cats, rats)
R01HL-20352-02 Defenses of lung cells against oxygen toxicity (human, animals)
P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
R01HL-21032-02 Injury, wall thickness, and arterial wall oxygenation (dogs, rabbits)
R01HL-21308-01 Prostaglandins and local control of the circulation (rats, dogs)
R01HL-21850-01 Calcium transport in the hypertrophied myocardium (rats, animals)
R01HL-22079-01 Heart receptor sites for digitalis and steroid hormones (animals)
R01HL-22500-01 Conversion of choline to phosphatidylcholine in lung (rabbits, pigs)
P01HL-22619-01 0001 Cellular mechanisms of heart failure Cell membrane isolation and reconstitution (dogs, lambs)

BIOMATERIALS

SEE ALSO BIOMEDICAL ENGINEERING, BIOLOGICAL POWER SYSTEMS
SEE ALSO BLOOD COAGULATION, ANTITHROMBOGENIC SURFACE
SEE ALSO PROSTHESIS
SEE ALSO SURGICAL ADHESIVES
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, IMPLANT
P01HL-06312-17 0030 Surgical cardiology Total artificial heart (calves)
** P01HL-06312-17 0043 Surgical cardiology The cylindrical ventricular assist device (dogs)
** P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
P01HL-11414-11 0027 Thrombosis and atherosclerosis program - Thermal memory wire filter to prevent pulmonary embolism (human, dogs)
R01HL-11418-09 Poly-diaminophosphazenes
R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
M P01HL-13330-08 Mechanical circulatory support
P01HL-13330-08 0031 Mechanical circulatory support - Hemodynamics of cardiac prosthesis
P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and evaluation of left ventricular bypass pumps (human, cattle)
** P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
** P01HL-13330-08 0062 Mechanical circulatory support - CORE facilities
R01HL-13426-09 Left ventricular bypass for myocardial infarction (cattle, human)
** P01HL-13737-07 0002 Assisted circulation - U-shaped mechanical auxiliary ventricle (dogs)
P01HL-13737-07 0005 Assisted circulation - Piezoelectric assist device (animals)
P01HL-13737-07 0026 Assisted circulation - Hemostatic mechanism (human, dogs)
P01HL-13737-07 0032 Assisted circulation - The dynamic aortic patch (human, dogs)
P01HL-13737-07 0033 Assisted circulation - Autologous bioprosthetic grafts for coronary artery bypass surgery (human, dogs)
M P01HL-13738-08 Cardiac assist devices and artificial hearts
P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
** P01HL-13738-08 0003 Cardiac assist devices and artificial hearts - Pathophysiological effects of the artificial heart (calves)
** P01HL-13738-08 0004 Cardiac assist devices and artificial hearts - Hematological evaluation of prosthetic materials (calves)
** P01HL-13738-08 0005 Cardiac assist devices and artificial hearts - Development of new materials for artificial heart and assist devices (sheep, dog)
** R01HL-13803-07 Advanced cardiac valvular and vascular prosthesis (dogs, baboons)
R01HL-13988-07 Elimination of reoperative cardiac pacemaker surgery (dogs)
R01HL-14126-17 Effect of function on grafts and implants of collagen (dogs, monkeys)
M P01HL-15195-04 Program project in biological materials
** P01HL-15195-04 0001 Program project in biological materials - Design and synthesis
** P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
** P01HL-15195-04 0003 Program project in biological materials - Mechanical evaluation and fabrication
** P01HL-15195-04 0004 Program project in biological materials - Biological evaluation and surface interaction studies (dogs)
** P01HL-15486-06 0004 Studies on thrombosis - Thrombosis, intravascualr coagulation, platelet aggregation (dogs)
R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
P01HL-16387-04 0006 The blood vessel and thrombogenesis - Mechanism of delayed vessel graft failure (dogs, rabbits)
R01HL-16582-05 Artificial lungs (dogs)
** R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
R01HL-17369-04 Arterial bypass surgery--Structure and metabolism (monkeys)
P01HL-17430-05 0007 Control of coagulation - Platelet adhesion, aggregation, ultrastructure in flowing blood (human, animals)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-17623-05 Initial events in thrombus formation on surfaces (humana rats)
R01HL-17969-04 Function and structure of semilunar valves (dogs)
** R01HL-18084-03 Artificial heart and related problems (calves)
R01HL-18321-03 Fluid shear or magnetic alignment of blood components (human)
** R01HL-18441-03 Guidelines for polymers acting as elastin substitutes
** P01HL-18576-03 0003 Thrombosis research program project - Biocompatible materials
** P01HL-18576-03 0010 Thrombosis research program project - Evaluation of non-thrombogenic materials (cattle)
** R01HL-18644-03 Prosthesis for aortocoronary bypass (dogs, baboons)
** R01HL-18764-03 Biosorbable thromboresistant surfaces (dogs, rats, swine, human)
** R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
R01HL-19350-02 Prevention of thrombosis by applied electric fields (sheep)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
** R01HL-20037-02 Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle)
** R01HL-20073-02 Blood compatible materials by fluid perfusion (human, dogs)
M R01HL-20079-02 Thromboresistant material
** R01HL-20079-02 0002 Thromboresistant material - Thromboresistant materials (sheep)
** R01HL-20079-02 0003 Thromboresistant material - Blood surface interactions (human, cattle)
R01HL-20163-02 Competitive coronary flow in native and graft vessels (dog)
** R01HL-20251-02 A novel approach to nonthrombogenic polymer surfaces (sheep, cattle)
** R01HL-20313-02 Surface-induced thrombosis--Modification of albumin variants (human, goat)
** R01HL-20356-02 Oevelopment and evaluation of an artificial heart (calves)
R01HL-20554-02 Memory-alloy-filters for venous emboli (dogs)
R01HL-21001-01 Protein and thrombus deposition on vascular grafts
** R01HL-21194-02 Oevelopment of antithrombogenic plastic biomaterials
R23HL-21271-02 Extracorporeal circulation and protein denaturation (human)
R01HL-21632-02 Oevelopment of a transcutaneous power transfer system (cattle)
** R23HL-21805-01 Tissue cell interactions with vascular prostheses (human, rats, mice)
R01HL-22110-02 Healing complications in vascular grafting (dogs)
M P01HL-22163-01 Surface thrombogenesis--Mechanisms and prevention
** P01HL-22163-01 0001 Surface thrombogenesis--Mechanisms and prevention - Initial blood protein and platelet interactions with biomaterials (baboons)
** P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)
** P01HL-22163-01 0003 Surface thrombogenesis--Mechanisms and prevention - In vivo mechanisms of biomaterial thrombogenesis and its prevention (baboons)
** P01HL-22163-01 9001 Surface thrombogenesis--Mechanisms and prevention - Polymers for studing blood-material interactions core
** R01HL-22338-01 Platelet adhesion and aggregation in a flow chamber (human)
R01HL-22455-01 Platelet concentration in the marginal layer (dogs, human)
** R01HL-22585-01 Plasma proteins adsorbed to artificial organs (human, rabbits)
** R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces
** N01HV-12017-15 Fabrication of grafted hydrogel coatings for plastic heart assist devices
N01HV-12054-14 Oevelopment of intimal linings (human, cattle)
N01HV-12065-16 Fabrication of implantable artificial heart devices (animals)
** N01HV-32913-11 Study electrodeless glow discharge for modifying polymer surface
** N01HV-32917-08 Materials development and testing
** N01HV-32919-12 Material development and testing heparinization processes
** N01HV-32949-11 Modification of silicon elastomers for medical devices
N01HV-32950-08 Blood compatible poly-electrolytes
** N01HV-32953-10 Materials compatible with blood (dogs)
** N01HV-32959-10 Oevelopment of materials for heart assist devices
** N01HV-42914-13 Solenoid left ventricular assist system (cattle)
N01HV-42928-07 Continued development of carbon film deposits for prosthetics
N01HV-42960-07 Oevelopment and evaluation of cardiac prostheses (calves)
** N01HV-42961-06 Evaluation of biomaterials in contact with blood (dogs)
** N01HV-42969-06 Interactions of natural and chemically modified biopolymers with blood (dogs)
** N01HV-62911-04 Vena cava ring tests of biomaterials in dogs
N01HV-72918-01 Test polymers for circulatory assist devices
** N01HV-72919-01 Test polymers for circulatory assist divices
N01HV-72933-01 Electrical energy transmission technique development (dogs)
N01HV-72934-01 Development of a left heart assist blood pumps (human, cattle)
N01HV-72937-00 Left heart assist blood pumps (calves)
N01HV-72938-01 Oevelopment of a left heart assist blood pump
N01HV-72939-01 Oevelop and evaluate left heart assist blood pumps (human, calves, pigs)

BIOMATERIALS, TISSUE SUPPORTING FRAMES

** P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
P01HL-13737-07 0032 Assisted circulation - The dynamic aortic patch (human, dogs)
P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
** P01HL-13738-08 0005 Cardiac assist devices and artificial hearts - Oevelopment of new materials for artificial heart and assist devices (sheep, dog)
R01HL-16582-05 Artificial lungs (dogs)
R01HL-18644-03 Prosthesis for aortocoronary bypass (dogs, baboons)
R01HL-18764-03 Biosorbable thromboresistant surfaces (dogs, rats, swine, human)
R01HL-22110-02 Healing complications in vascular grafting (dogs)
P01HL-22163-01 0003 Surface thrombogenesis--Mechanisms and prevention - In vivo mechanisms of biomaterial thrombogenesis and its prevention (baboons)
R01HL-23542-01 Pulmonary vascular smooth muscle cell dynamics (rat, rabbit)
** N01HV-12054-14 Oevelopment of intimal linings (human, cattle)
** N01HV-12060-18 Tissue cultured endothelium for vascular prosthetic devices (human, animals)
N01HV-72934-01 Oevelopment of a left heart assist blood pumps (human, cattle)
N01HV-72939-01 Oevelop and evaluate left heart assist blood pumps (human, calves, pigs)
** N01HV-81388-20 Microfiber substrate for growth of intimal linings in circulatory assist devices

BIOMATHEMATICAL AND COMPUTER SCIENCES STUDY SECTION

SEE COMPUTER AND BIOMATHEMATICAL SCIENCES STUDY SECTION

BIOMATHEMATICS

SEE MATHEMATICS, BIOMATHEMATICS (GENERAL)

BIOMECHANICS

SEE BIOPHYSICS, BIOMECHANICS

BIOMEDICAL DATA COMPUTER PROCESSING

SEE BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER PROCESSING OF LABORATORY DATA (GENERAL)

BIOMEDICAL ECONOMICS

SEE HEALTH ECONOMICS

BIOMEDICAL EDUCATION

SEE EDUCATION, HEALTH OCCUPATIONS

BIOMEDICAL ENGINEERING

SEE ALSO BIOPHYSICS (GENERAL)*
M P01HL-11307-12 Biophysical studies in pediatric cardiology
** P01HL-11307-12 9002 Biophysical studies in pediatric cardiology - Biomedical engineering
** R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
P01HL-13737-07 0025 Assisted circulation - Driving system based on quantitative criteria (human, dogs)
** P01HL-14985-07 0018 Adaptation to hypoxia - Bioengineering core
R01HL-17821-03 Cavitation phenomena near prosthetic devices
** R01HL-19350-02 Prevention of thrombosis by applied electric fields (sheep)
M R01HL-20079-02 Thromboresistant material
** R01HL-20219-02 Cryopreservation of the isolated heart (rats)
** R01HL-21188-02 Pulsatory water flux and endothelial cell desquamation
** N01HV-72933-01 Electrical energy transmission technique development (dogs)

BIOMEDICAL ENGINEERING, BIOLOGICAL POWER SYSTEMS

P01HL-10436-13 0006 A multidisciplinary study of congenital heart disease - Ventricular blood pumps and valves (human, cattle)
** R01HL-13988-07 Elimination of reoperative cardiac pacemaker surgery (dogs)
** R01HL-18084-03 Artificial heart and related problems (calves)
R01HL-20356-02 Development and evaluation of an artificial heart (calves)
** R01HL-20629-02 Catheter ventricular defibrillation studies (dogs)
R01HL-20835-02 Signal analysis of turbulence study in blood
** R01HL-21632-02 Development of a transcutaneous power transfer system (cattle)
R01HL-21674-01 Oevelopment of automatic implanted defibrillator (dogs, cattle)
** N01HV-72971-01 Energy converters to control heart assist devices (human, cattle)
** N01HV-72976-02 Energy converters to control heart assist devices (human, cattle)
** N01HV-82919-00 Oevelopment of percutaneous energy transmission systems

BIOMEDICAL ENGINEERING, INSTRUMENTATION CENTERS

** R01HL-11119-17 Amino acid analyzer for biochemical research
** P01HL-11414-11 0036 Thrombosis and atherosclerosis program - Electron microscopy core facility
P01HL-12373-10 0018 Cardiopulmonary physiology and pathophysiology - Biochemistry laboratory
** P01HL-12373-10 0019 Cardiopulmonary physiology and pathophysiology - Free ranging animal facility
R01HL-20356-02 Development and evaluation of an artificial heart (calves)

BIOMEDICAL ENGINEERING, INSTRUMENTATION CLINICALLY ORIENTED

N01HB-22922-08 Develop effective therapy for sickle cell disease (human, dogs)
** N01HB-62962-02 Red cell distributions in cyanate-treated blood (human, sheep)
R01HL-03181-21 0020 Hemodynamics as applied to surgical problems - Blood flow measurement--Cardiac output and regional flows (dogs)
** R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)
M P01HL-04664-18 Cardiovascular and lung dynamics
** P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
** P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
** P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
** P01HL-04664-18 0004 Cardiovascular and lung dynamics - X-ray cross section imaging of the circulation (dogs)
** P01HL-04664-18 0005 Cardiovascular and lung dynamics - Applications of current research, equipment and techniques
** P01HL-04664-18 0006 Cardiovascular and lung dynamics - Cross section imaging of organ functions using emitted radiation (dogs)
** P01HL-04664-18 0007 Cardiovascular and lung dynamics - Oevelopment and application of ultrasound imaging techniques
** P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique
** P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
** P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
P01HL-04664-18 0015 Cardiovascular and lung dynamics - Computer system for the cardiovascular laboratory
** R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
P01HL-06285-18 0146 Cardiovascular-respiratory physiology and biochemistry - Pathogenesis and detection of hypoxic pulmonary edema (human, animals)
** P01HL-06308-18 0012 Mechanisms and therapy of circulatory disease - Echocardiographic evaluation of hemodynamics of arrhythmia (human)
** P01HL-06308-18 0042 Mechanisms and therapy of circulatory disease - Echocardiographic assessment of arrhythmias--Myocardial tissue type (human, dogs)
** P01HL-06308-18 0043 Mechanisms and therapy of circulatory disease - Exercise and echocardiographic examining techniques (human)
** P01HL-06308-18 0044 Mechanisms and therapy of circulatory disease - Echocardiography to determine site of ectopic impulse formation (human, dogs)
** P01HL-06312-17 0030 Surgical cardiology - Total artificial heart (calves)
** P01HL-06312-17 0041 Surgical cardiology - A servomechanism for left ventricular assist (human, dogs, sheep)
P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
M P01HL-07293-17 Non-invasive cardiovascular measurements
** P01HL-07293-17 0041 Non-invasive cardiovascular measurements - Ventricular volumes and dimensions (human)
** P01HL-07293-17 0042 Non-invasive cardiovascular measurements - Ventricular imaging software (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-07293-17 0043 Non-invasive cardiovascular measurements - ECHO-Doppler instrumentation for cardiac measurements (human)
** P01HL-07293-17 0044 Non-invasive cardiovascular measurements - Cardiac duplex scanner
** P01HL-07293-17 0045 Non-invasive cardiovascular measurements - Cardiac scanner transducer position locating systems (human)
** P01HL-07293-17 0046 Non-invasive cardiovascular measurements - Cardiac scanner signal processors
** P01HL-07293-17 0047 Non-invasive cardiovascular measurements - Cardiac scanner system software
** P01HL-07293-17 0048 Non-invasive cardiovascular measurements - Cardiac scanner recording and display systems component
** P01HL-07293-17 0049 Non-invasive cardiovascular measurements - Cardiac scanner engineering evaluation and error analysis
** P01HL-07293-17 0050 Non-invasive cardiovascular measurements - Cardiac dimensions measurements engineering evaluation and error analysis
** P01HL-07293-17 0051 Non-invasive cardiovascular measurements - Physiologic evaluation of duplex scanner (dogs)
** P01HL-07293-17 0052 Non-invasive cardiovascular measurements - Clinical evaluation of the duplex scanner (human)
** P01HL-07293-17 0053 Non-invasive cardiovascular measurements - Clinical evaluation of cardiac dimensions using the duplex scanner (human)
** P01HL-07293-17 0054 Non-invasive cardiovascular measurements - Detection of arterial occlusive disease (human)
** P01HL-07293-17 0055 Non-invasive cardiovascular measurements - Peripheral vascular transducer position locating system
** P01HL-07293-17 0056 Non-invasive cardiovascular measurements - Peripheral vascular system software
** P01HL-07293-17 0057 Non-invasive cardiovascular measurements - Peripheral vascular scanner engineering evaluation and error analysis (human)
** P01HL-07293-17 0058 Non-invasive cardiovascular measurements - Peripheral duplex scanner physiologic evaluation
** P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
R01HL-07605-16 Congenital heart disease research program (human, dogs)
P01HL-07896-15 0036 Environmental biomedical research program - Respiratory heat loss in deep diving (infants, dogs)
P01HL-08682-15 0006 Regulation of the cardiovascular system - Cardiovascular studies of mammalian hibernators (sciuromorpha)
P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
R01HL-09609-11 Lung volume and breathing mechanics during anesthesia (human)
R01HL-09711-13 Instantaneous blood flow in oscending aorta (human, dogs)
** R01HL-09831-12 Effect of resistivity variations on electrocardiogram (human)
R01HL-10417-12 Multiple systems in electrocardiography (human)
** P01HL-10436-13 0006 A multidisciplinary study of congenital heart disease - Ventricular blood pumps and valves (human, cattle)
** P01HL-11310-12 0093 Mechanisms of cardiovascular disease - Multiple dipole electrocardiogram project (human, dogs)
** P01HL-11310-12 9002 Mechanisms of cardiovascular disease - Core support-centralized electronic laboratory
** P01HL-11414-11 0024 Thrombosis and atherosclerosis program - Radiographic demonstration of small coronary arteries (human, dogs)
** P01HL-11414-11 0027 Thrombosis and atherosclerosis program - Thermal memory wire filter to prevent pulmonary embolism (human, dogs)
R01HL-11717-09 Effect of stenotic obstructions on flow in arteries (dogs)
** R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
** R01HL-12307-08 Non-surgical treatment of congenital heart disease (human, dogs)
** P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
R01HL-12611-10 Basic and clinical studies of the ST-T deflection (human, dogs)
R01HL-12715-10 Dynamic cardiovascular measurement using ultrasound
** P01HL-12738-10 0123 Physiologic pharmacology and its clinical applications - Ventricular assistance and preservation (human, dogs)
P01HL-12738-10 0128 Physiologic pharmacology and its clinical applications - Recording electrograms from specialized cardiac tissues (human, dogs)
P01HL-12738-10 0131 Physiologic pharmacology and its clinical applications - Evaluation of intracardiac shunts by contrast echocardiography (dogs)
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
** R01HL-13036-08 Coronary thrombosis-Effects on myocardium and in vivo detection (dogs, monkeys)
M P01HL-13330-08 Mechanical circulatory support
** P01HL-13330-08 0031 Mechanical circulatory support - Hemodynamics of cardiac prosthesis
** P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and evaluation of left ventricular bypass pumps (human, cattle)
P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
** P01HL-13330-08 0062 Mechanical circulatory support - CORE facilities
** R01HL-13426-09 Left ventricular bypass for myocardial infarction (cattle, human)
M P01HL-13737-07 Assisted circulation
** P01HL-13737-07 0005 Assisted circulation - Piezoelectric assist device (animals)
** P01HL-13737-07 0006 Assisted circulation - Portable driving unit for permanent assist devices (dogs)
** P01HL-13737-07 0008 Assisted circulation - Phase-shift balloon pumping alternate designs
** P01HL-13737-07 0013 Assisted circulation - Incorporation of sensors (human, dogs)
** P01HL-13737-07 0025 Assisted circulation - Driving system based on quantitative criteria (human, dogs)
P01HL-13737-07 0028 Assisted circulation - Clinical studies of intraaortic balloon pumping
P01HL-13737-07 0032 Assisted circulation - The dynamic aortic patch (human, dogs)
P01HL-13737-07 0039 Assisted circulation - Computer controlled intraortic balloon pumping
M P01HL-13738-08 Cardiac assist devices and artificial hearts
** P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
** P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
R01HL-13803-07 Advanced cardiac valvular and vascular prosthesis (dogs, baboons)
** P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
** R01HL-13988-07 Elimination of reoperative cardiac pacemaker surgery (dogs)
P50HL-14136-07 0005 Pulmonary SCOR--Airways obstructive diseases - Radiographic studies of airways obstructive disease (human)
P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
** P50HL-14136-07 9002 Pulmonary SCOR--Airways obstructive diseases - Physiology core (human, animal)
P50HL-14136-07 9007 Pulmonary SCOR--Airways obstructive diseases - Special facilities core
P50HL-14187-07 0008 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary thromboembolism (dogs, human)
P50HL-14187-07 0016 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Core pathology service (dogs, rabbits, human)
** P50HL-14214-07 0036 Newborn lung center for hyaline membrane disease - Core--Biomedical engineering
** P50HL-14218-07 0013 Pulmonary SCOR--Newborn lung center - Longitudinal study of RDS--Monitoring fetal PO2 and PCO2 during labor (human)
** P50HL-14218-07 0014 Pulmonary SCOR--Newborn lung center - Longitudinal study of RDS--Monitoring fetal breathing movements (human)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
** P01HL-14414-07 9003 Environmental influences on cardiorespiratory and cellular functions - Machine and electronics shop--Core facility
P01HL-14580-07 0005 Program project in respiratory mechanics - Development and evaluation of tests of pulmonary function (human)
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
** R01HL-14645-07 Blood flow measurement by ultrasonic catheter tip methods (human, dogs)
** R01HL-14688-05 Myocardial assessment by inverse electrocardiography (monkey)
** R01HL-14785-07 Ultrasonic scattering for tissue characterization (dogs, cattle, human)
** R01HL-15016-07 New concepts in cardiac ultrasound technology (human)
** R01HL-15247-05 Extending the life of implanted pacemakers (dogs, human)
R01HL-15270-06 Local mechanical properties of the aortic tissue (dogs, pigs)
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
P01HL-15596-05 0001 Coagulation, fibrinolysis, hemostasis and hepatitis - Defibrination (human)
** R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
** R01HL-15781-06 Guided vascular obliteration of CNS vascular lesions (human)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
** R01HL-16260-04 Development of clinical cine ultrasound cardiography
** P01HL-16387-04 0005 The blood vessel and thrombogenesis - Fluid engineering considerations in thrombogenesis
** R01HL-16484-04 Radiographic ventriculometry for coronary heart disease (human)
** R01HL-16487-05 Computer controlled two dimensional echocardiography
** R01HL-16582-05 Artificial lungs (dogs)
** R01HL-16759-05 Ultrasonic measurement of cardiac geometry and flow
R01HL-16791-03 Computer linkage for a dual camera system
** R01HL-16830-05 Non-invasive determination of aortic blood velocities (human)
P01HL-16851-04 0009 Human red cell membrane in health and disease - Blood cell properties in circulatory regulation (dogs, rabbits)
** R01HL-16901-05 Multipolar linkage between heart geometry and surface (human, dogs)
R01HL-16908-04 Myocardial function, risk factors and future CHD (men)
R01HL-16909-04 Myocardial function, risk factors and future CHD (men)
P01HL-16910-05 0002 Regulation of the peripheral circulation - Coronary circulation (dogs)
P01HL-16910-05 0005 Regulation of the peripheral circulation - Control of circulation by baroreceptor and chemoreceptor reflexes (dog, monkey)
P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Dynamics of ischemic heart disease (human, dog)
P60HL-17269-04 0029 National heart and blood vessel research and demonstration center - Clinical application of circulatory assistance (human)
** P60HL-17269-04 0030 National heart and blood vessel research and demonstration center - Cardiovascular engineering laboratories (human)
** P60HL-17269-04 0032 National heart and blood vessel research and demonstration center - Clinical circulatory assist device fabrication
M P01HL-17421-05 Regulation and exchange in the microcirculation
** P01HL-17421-05 0006 Regulation and exchange in the microcirculation - Core facilities--Optical instrumentation facility
** P01HL-17421-05 0007 Regulation and exchange in the microcirculation - Core facilities--Fluorometric measurement methods for microcirculation
M R01HL-17543-03 Magnetic tracers for diagnosis of lung disease
** R01HL-17543-03 0001 Magnetic tracers for diagnosis of lung disease - Chronic, interstitial lung disease (human, rabbits)
** R01HL-17591-03 Development of electromagnetic rheoangiography (human, dogs)
** R01HL-17604-03 Wearable blood pressure and ECG recording system
P50HL-17648-04 0004 Study of ischemic heart disease - Radionuclide imaging studies (human, pig)
P50HL-17648-04 0021 Study of ischemic heart disease - Biventricular contractile responses to acute myocardial infarction (mammals)
** P50HL-17651-04 0016 Ischemic heart disease specialized center of research - Retroperfusion of coronary venus circulation with therapeutic agents (dogs)
** P50HL-17651-04 0023 Ischemic heart disease specialized center of research - Development of multipurpose catheter for monitoring and electronic pacing
** P50HL-17651-04 0035 Ischemic heart disease specialized center of research - Core facilities--Biomedical engineering, biophysics
P50HL-17651-04 0037 Ischemic heart disease specialized center of research - Measurement of coronary venous outflow by thermodilution (human)
** P50HL-17651-04 0047 Ischemic heart disease specialized center of research - Clinical core--Automated arrhythmia monitoring system
P50HL-17655-04 0012 Study of ischemic heart disease - DATA management
** P50HL-17665-04 0027 Study of ischemic heart disease - Positron imaging of regional myocardial perfusion (human, dog)
** P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
** P50HL-17667-04 0042 Study of ischemic heart disease - Core--Central instrumentation and software
P50HL-17670-04 0008 Study of ischemic heart disease - Surgical treatment of cardiac rhythm disorders (human, dogs)
** P50HL-17670-04 0014 Study of ischemic heart disease - Real time ultrasound imaging in ischemic heart disease (human, dog)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P50HL-17682-04 0014 Study of ischemic heart disease - Myocardial ischemia--Instrumentation and technique (dogs, baboons)
** R01HL-17769-03 New methods of studying blood coagulation kinetics
R01HL-17826-04 Oxygen delivery to tissue (rat, dog)
R01HL-17931-04 Normalized body surface potential maps (children)
** R01HL-17974-03 External pneumatic compression in deep venous thrombosis (human)
** R01HL-18040-04 Waveform dependency in defibrillation (calves)
** R01HL-18084-03 Artificial heart and related problems (calves)
R01HL-18144-03 Preprocessor system for cardiograms (human)
R01HL-18190-03 Myocardial blood flow in acute myocardial infarction (human, dogs)
** R01HL-18256-01 Optical properties of platelets and erythrocytes (rabbits, dogs, human)
R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
R01HL-18492-03 Measurement of regional coronary flow reserve (human, dogs)
M P01HL-18574-03 Lipoprotein methodology and biomedical applications
** P01HL-18574-03 0001 Lipoprotein methodology and biomedical applications - Ultracentrifugal and electrophoretic lipoprotein methodology--Applications
P01HL-18576-03 0001 Thrombosis research program project - Platelet damage from physical forces and artificial surfaces (human)
R01HL-18644-03 Prosthesis for aortocoronary bypass (dogs, baboons)
** P01HL-18646-03 0010 Studies basic to heart transplantation - Development and study of a heart preservation chamber (dogs, sheep)
P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
** R01HL-18710-02 Non-invasive reflection oximetry in peripheral tissue (dogs)
** R01HL-18725-03 Light-scattering studies of the sickling process (human)
** R01HL-18808-04 0003 Prediction and prevention of sudden cardiac death - Technical support (computer)
** R01HL-18947-02 Indirect mean arterial pressure (mammals)
R01HL-18968-03 Computer technology for transaxial tomography
R01HL-18977-03 Non-invasive diagnosis of peripheral arterial disease (human, dogs)
** R01HL-19003-03 High precision densitometry of coronary angiograms
** R01HL-19019-03 Accurate transcutaneous Doppler blood flow monitoring
R01HL-19038-02 Plethysmographic evaluation of carotid blood flow (human, rabbits, dogs)
R01HL-19065-02 Molecular oxygen in biological fluids
R01HL-19083-02 Rapid specific micro measurement of blood cholesterol
R01HL-19095-03 Laser spectroscopy of lipoproteins (human)
** R01HL-19118-03 Measurement of airways mechanics (human, dog)
R01HL-19135-04 Heterogeneity of regional myocardial blood flow (dogs)
** P50HL-19153-02 0008 SCOR--Pulmonary edemas--Etiology, pathogenesis - Core--Biomedical engineering
P50HL-19170-02 0008 Harvard pulmonary SCOR--Chronic diseases of the airways - Multiple-transient artificial coughing (dogs, human)
P50HL-19170-02 0010 Harvard pulmonary SCOR--Chronic diseases of the airways - Computer Core
** P50HL-19187-02 0009 Pediatric pulmonary SCOR--Hyaline membrane disease - Non-invasive measurement and monitoring of arterial oxygen tension (dogs, sheep)
** P50HL-19190-02 0009 Pulmonary SCOR--Pathophysiology, management of IROS - Developing non-invasive neonatal pulmonary monitoring systems (rabbit, human)
R01HL-19275-03 Characterization of collateral blood vessels (dogs)
** R01HL-19352-03 Respiratory heat and water loss in neonates
** P50HL-19362-02 0011 A/S SCOR--Atherosclerosis in nonhuman primates - Chronic hypertension induced by operant conditioning techniques (baboon)
** R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
M R01HL-19451-03 Functional characteristics of the left heart
R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
** R01HL-19647-03 Therapeutic aerosols
R01HL-19704-03 Aerosol therapy (models, dogs, human)
** P01HL-19717-02 0046 Response of the lung to injury - Bioengineering section
** R01HL-19768-02 Recording and analysis of low levels cardiac signals (human, dogs)
** R01HL-19791-02 Ultrasonic monitoring visceral blood vessels
** R01HL-19973-01 Non-invasive sickled cell monitor development (human)
** R01HL-19975-02 Laryngeal biomechanics in pulmonary therapy (primates)
** R01HL-19993-02 Optical detection of platelet aggregates (human, baboons)
R01HL-20024-03 Therapeutic aerosols--Characteristics and retention (human, dogs)
** R01HL-20037-02 Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle)
** R01HL-20077-02 External cardiac stimulation with microwave radiation (dogs)
R01HL-20110-02 Microwave methods of lung water measurement (dogs, phantom models)
** R01HL-20192-02 Ciliary activity of the lung studied by laser scattering
R01HL-20274-02 Gated imaging with the MGH x-ray camera
** R01HL-20347-02 Bolus-response measurement of lung function (human)
** R01HL-20351-02 A self-calibrating in vivo blood gas monitor (dogs, infants)
** R01HL-20356-02 Development and evaluation of an artificial heart (calves)
R01HL-20374-03 Myocardial function--Risk factors and future CHD (human)
R01HL-20546-02 Chemical analysis of human arterial elastin
R01HL-20554-02 Memory-alloy-filters for venous emboli (dogs)
P01HL-20592-02 0012 Cell biology of cardiac and skeletal muscle - Contractile properties of skinned muscle fibers (frogs)
R01HL-20607-02 Tissue analysis by mass spectrometer (dogs)
** R01HL-20629-02 Catheter ventricular defibrillation studies (dogs)
** R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
** R01HL-20632-02 An optimal fetal heart monitor (human)
R01HL-20674-02 Evaluation of cardiac function with radioactive tracers
R01HL-20716-02 Freezing and electromagnetic thawing of platelets (rats)
** R01HL-20788-02 Preservation of human platelets for transfusion
** R01HL-20803-02 Intra-aortic balloon pumping (dogs, lambs, cats)
R01HL-20815-02 Validation of indirect tests of small airways function (human, dogs, ponies)
** R01HL-20835-02 Signal analysis of turbulence study in blood
** R01HL-20898-02 Ultrasonic evaluation in direct arterial surgery (models, cattle, human)
** R01HL-20979-02 A novel pulsed Doppler flowmeter (dogs)
** R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
** R01HL-21194-02 Development of antithrombogenic plastic biomaterials
R23HL-21199-02 Sound transmission in lung (dog)
R23HL-21271-02 Extracorporeal circulation and protein denaturation (human)
R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
R01HL-21444-02 Pulmonary mechanics during postnatal development (human)
R01HL-21674-01 Development of automatic implanted defibrillator (dogs, cattle)
** R01HL-21707-01 Quantification of infarct size by emission tomography (human, dogs)
R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies--Ischemia and infarction
R01HL-22005-01 Intermittent retroperfusion of ischemic myocardium (dogs)
** R01HL-22032-01 Cardiovascular events in hypertensives (human)
R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)
** R01HL-22281-01 Microprobe analysis and metabolite levels of ischemic mycardium (dogs)
** R01HL-22315-01 Intraoperative cardiac oxygen supply-demand (dogs, rabbits, rats)
** R01HL-22321-01 Cardiac output from the pneumocardiogram (dogs)
** R01HL-22326-01 Noninvasive measurement of cardiac output (dogs)
R01HL-22338-01 Platelet adhesion and aggregation in a flow chamber (human)
R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)
** R01HL-22417-01 Microprocessors in medical applications (dogs)
** R01HL-22512-01 Ultrasonic instrumentation for cardiovascular studies
** R01HL-22517-01 Engineering development of an ultrasonic ventilometer (human)
** R01HL-22604-01 Non-invasive system for arteriosclerosis studies (human)
** R01HL-22636-01 Newborn lung function during mechanical ventilation (human)
** R01HL-22661-01 Chronic total cardiopulhonary mechanical substitution (sheep)
R01HL-22699-01 Defibrillation electrode studies (dogs, swine)
R01HL-22809-01 Coronary-prone behavior and cardiovascular reactivity (human)
R01HL-22844-01 Phrenic nerve pacing--Noninvasive diaphragm analysis (human, dogs)
R01HL-22854-01 Non-invasive blood pressure measurement (rats)
** R01HL-22888-01 Prosthetic valve endocarditis--Etiology and therapy (dogs)
** P60HL-23282-01 0001 Comprehensive hospital/community sickle cell center - Fetoscopy for intrauterine diagnosis of hemoglobinopathy (human, monkeys)
R01HL-23983-01 Quantitative radiocardiography (human, dogs)
** N01HR-32900-09 Pilot study to standardize the measurement of 'closing volume' (human)
** N01HR-62901-04 Measure pulmonary function in infants and children (also dogs, rabbits)
** N01HR-62920-02 Noninvasive diagnosis of pulmonary hypertension (dog, human)
** N01HV-12065-16 Fabrication of implantable artificial heart devices (animals)
** N01HV-42914-13 Solenoid left ventricular assist system (cattle)
** N01HV-42960-07 Development and evaluation of cardiac prostheses (calves)
N01HV-52966-01 Development and evaluation of an ultrasonic imaging system (swine)
** N01HV-53008-07 Left ventricular assist device--Clinical evaluation (human)
** N01HV-72918-01 Test polymers for circulatory assist devices
N01HV-72919-01 Test polymers for circulatory assist divices
N01HV-72924-04 Non-invasive detection of atherosclerotic lesions (human, animals)
N01HV-72925-04 Non-invasive detection of atherosclerotic lesions (human, monkeys, dogs)
** N01HV-72926-04 Ultrasonic imaging development
** N01HV-72927-00 Systems for non-invasive detection of atherosclerotic lesions (human)
** N01HV-72928-04 Develop high resolution ultrasonic imaging techniques
N01HV-72929-01 Improved detection of atherosclerosis (human, dogs)
N01HV-72930-02 Atherosclerosis assessment--Angiography and ultrasound (dogs, human)
N01HV-72931-02 Non-invasive detection of atherosclerotic lesions (human, dogs)
N01HV-72932-00 Non-invasive detection of atherosclerotic lesions (human, phantoms)
** N01HV-72933-01 Electrical energy transmission technique development (dogs)
** N01HV-72934-01 Development of a left heart assist blood pumps (human, cattle)
** N01HV-72936-00 Left heart assist device development (human, cattle)
** N01HV-72937-00 Left heart assist blood pumps (calves)
** N01HV-72938-01 Development of a left heart assist blood pump
** N01HV-72939-01 Develop and evaluate left heart assist blood pumps (human, calves, pigs)
** N01HV-72971-01 Energy converters to control heart assist devices (human, cattle)
** N01HV-72975-02 Energy converter for left ventrical assist devices (calves)
** N01HV-72976-02 Energy converters to control heart assist devices (human, cattle)
N01HV-81388-20 Microfiber substrate for growth of intimal linings in circulatory assist devices
** N01HV-82919-00 Development of percutaneous energy transmission systems

BIOMEDICAL ENGINEERING, INSTRUMENTATION NOT CLINICALLY ORIENTED

R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)
P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changes in lymphocytes (human, mice)
P01HL-07896-15 0045 Environmental biomedical research program - Extravascular lung water dynamics in pulmonary oxygen toxicity (human, baboons)
** P01HL-08214-15 0006 Chemical and biological properties of lipids - Analysis and properties of lipids
P01HL-08214-15 0040 Chemical and biological properties of lipids - Nuclear magnetic resonance studies of lipids
** P01HL-08214-15 0047 Chemical and biological properties of lipids - High resolution liquid chromatography for the analysis of biological substances

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

** P01HL-08805-15 0043 Regulation of ventilation and pulmonary circulation - Computer core facility
R01HL-08977-14 Quantitation of flow and solute flux in microvessels (cats, rats)
P01HL-09011-15 0022 A research and resource program in blood - Cryopreservation of blood components (human)
R01HL-10330-11 Physiological mechanics of the heart and arteries (dogs, rabbits, horses)
R01HL-11153-12 Quantitation of flow and solute flux in microvessels (cats, rats)
P01HL-11307-12 0002 Biophysical studies in pediatric cardiology - Cardiac extracellular electrophysiology (human, dog, chimpanzee)
P01HL-11351-12 0018 Cellular and molecular mechanisms of myocardial function - Quantitative localization of electrolytes in cardiac tissue
P01HL-11351-12 0019 Cellular and molecular mechanisms of myocardial function - Mechano-chemical kinetics of small perturbations
** P01HL-11678-11 9003 Cardiovascular dynamics and their control - Core--Instrumentation and machine shop
** R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
P01HL-13737-07 0037 Assisted circulation - Clinical measurement of blood flow through aorto-coronary vein bypass graft
P50HL-14147-08 0015 Specialized center of research in thrombosis - Charge related properties of phospholipid surfaces in monolayers and vesicles
P50HL-15092-07 0001 Immune and fibrotic response to occupational environments - X-ray diffraction study--Dust exposure in asbestos cement products manufacturing
P50HL-15092-07 0010 Immune and fibrotic response to occupational environments - Characterization of toluene diisocyanate in industrial environments
P01HL-15194-07 9003 Pathophysiology of cardiopulmonary dysfunction - Electronics laboratory core
R01HL-15740-06 In vitro studies on heart cell function (rats)
P60HL-16008-06 0017 Wayne State University comprehensive sickle cell center - Oxygen transport kinetics of pre- and post-sickling cells (human)
P01HL-16607-05 0006 Calcium ion and control of cardiovascular function - Sarcomere and contractile dynamics of striated muscle cells (animals)
R01HL-16828-04 Gradient and transport of oxygen in tissue and organs (mammals)
P01HL-16833-04 0003 Hemoglobin and red cell system in hemoglobinopathies - Oxygen binding curves and equilibria (human)
P01HL-16833-04 0008 Hemoglobin and red cell system in hemoglobinopathies - Membrane associated phenomena in SS disease
P01HL-16833-04 0015 Hemoglobin and red cell system in hemoglobinopathies - Stereochemistry of hemoglobins from magnetic circular dichroism (human)
R01HL-16855-03 Cavitation in biological systems (microorganisms, animals)
** P60HL-17269-04 0016 National heart and blood vessel research and demonstration center - New analytical methodology for atherosclerosis studies
** P01HL-18208-04 0002 Center for the study of blood cell rheology - Holography of RBC shape (human)
P01HL-18574-03 0001 Lipoprotein methodology and biomedical applications - Ultracentrifugal and electrophoretic lipoprotein methodology--Applications
P01HL-18576-03 0010 Thrombosis research program project - Evaluation of non-thrombogenic materials (cattle)
P01HL-18576-03 0015 Thrombosis research program project - Major equipment core
R01HL-18676-03 Myocardial sarcomere mechanics (rat)
R01HL-18831-03 Microscopy of spontaneously hypertensive arterial lesion (rats)
R01HL-18952-03 Metabolism in perfused fetal and newborn rabbit lungs
P01HL-19259-03 0006 Digoxin-specific antibody in human therapy - Core
** R01HL-19481-03 High-field NMR studies of respiratory proteins (human, horse, fish, microbes)
R01HL-19715-02 Respiratory tract deposition of hygroscopic aerosols (dogs, human)
P01HL-19737-02 0012 Cellular and molecular aspects of respiratory physiology - Mass spectrometer facility
** R01HL-19848-02 Contractile activation by rapid temperature jumps (frogs)
** R01HL-20354-02 Direct determination of oxygen tension in the clinical environment (human, dogs)
** P01HL-20592-02 0003 Cell biology of cardiac and skeletal muscle - Cellular magnesium and anion activities in ion-specific microelectrodes (frogs)
P01HL-21016-02 0018 Sickle cell anemia and other hemoglobinopathies - Scanning and transmission electron microscopy
R01HL-21371-02 Energy loss microanalysis of myocardial cations
** P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)
R01HL-22223-01 The cardio pulmonary junction (dogs, models)
** R01HL-22233-01 Characterization of bio-materials by elastic property
R01HL-22325-01 Thermodynamics in respiratory protein binding (human, trout)
R01HL-22917-01 Microvascular pressures in the intact beating heart (rabbits)
R23HL-22920-01 Dynamic airway behavior (dogs)
R01HL-23267-01 Rheology and kinetics of hemoglobin S gelation (human)

BIOMEDICAL ENGINEERING, MEDICAL EQUIPMENT SAFETY

R01HL-04666-19 Artificially paced hearts-Technology, physiology (human, dogs)
** R01HL-15247-05 Extending the life of implanted pacemakers (dogs, human)
P60HL-17269-04 0030 National heart and blood vessel research and demonstration center - Cardiovascular engineering laboratories (human)
** R01HL-19975-02 Laryngeal biomechanics in pulmonary therapy (primates)
R01HL-20077-02 External cardiac stimulation with microwave radiation (dogs)
** R01HL-20803-02 Intra-aortic balloon pumping (dogs, lambs, cats)
** R01HL-22699-01 Defibrillation electrode studies (dogs, swine)
N01HV-42914-13 Solenoid left ventricular assist system (cattle)

BIOMEDICAL FACILITIES

SEE ALSO ANIMAL FACILITIES, RESOURCES
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED
SEE ALSO HEALTH CARE FACILITIES (GENERAL)
P01HL-04664-18 0005 Cardiovascular and lung dynamics - Applications of current research, equipment and techniques
P01HL-04664-18 0011 Cardiovascular and lung dynamics - Detection of abnormal segments of the human ventricle by measure of asynergy
P01HL-04664-18 0015 Cardiovascular and lung dynamics - Computer system for the cardiovascular laboratory
P01HL-06350-17 0018 Hemostasis research program project - Variants of factors IX (human, cattle)
** P01HL-06664-17 0041 Cardiopulmonary function in remediable vascular disease - Core facility for quantitative microscopy
P01HL-08805-15 0042 Regulation of ventilation and pulmonary circulation - Electron microscope core research laboratory
P01HL-08805-15 0043 Regulation of ventilation and pulmonary circulation - Computer core facility
** P01HL-08974-14 9001 Natural and experimental atherosclerosis - Core--Lipid chemistry laboratory
** P01HL-08974-14 9002 Natural and experimental atherosclerosis - Core--Histology and histochemistry laboratory
** P01HL-10342-13 9001 The integrated function of respiration and circulation - Technical core
** P01HL-11307-12 9001 Biophysical studies in pediatric cardiology - Core support--computer science
** P01HL-11307-12 9002 Biophysical studies in pediatric cardiology - Biomedical engineering
** P01HL-11310-12 9001 Mechanisms of cardiovascular disease - Core support-hospital beds
** P01HL-11310-12 9002 Mechanisms of cardiovascular disease - Core support-centralized electronic laboratory
** P01HL-11310-12 9003 Mechanisms of cardiovascular disease - Core support-biophysical sciences
** P01HL-11310-12 9004 Mechanisms of cardiovascular disease - Core support-computer facilities
** P01HL-11678-11 9001 Cardiovascular dynamics and their control - Core--Computer services
** P01HL-11678-11 9002 Cardiovascular dynamics and their control - Core--Radioimmunoassay and chemical laboratory
** P01HL-11678-11 9003 Cardiovascular dynamics and their control - Core--Instrumentation and machine shop
** P01HL-12373-10 0014 Cardiopulmonary physiology and pathophysiology - Analog digital computation and simulation facility
P01HL-12373-10 0015 Cardiopulmonary physiology and pathophysiology - Cine angiographic-hemodynamic facility
P01HL-12373-10 0016 Cardiopulmonary physiology and pathophysiology - Histology-histochemistry-Gough laboratory
** P01HL-12373-10 0018 Cardiopulmonary physiology and pathophysiology - Biochemistry laboratory
P01HL-12373-10 0019 Cardiopulmonary physiology and pathophysiology - Free ranging animal facility
** P01HL-12373-10 0020 Cardiopulmonary physiology and pathophysiology - Hospitalization and patient care
P01HL-13330-08 0062 Mechanical circulatory support - CORE facilities
R01HL-13881-08 The American Red Cross National Fractionation Center
** R01HL-13885-08 9001 Cystic fibrosis and pulmonary disease - Pulmonary function core facility (infants, children)
** R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
** R01HL-13885-08 9003 Cystic fibrosis and pulmonary disease - Fiberoptic bronchoscopy core facility (human, dogs, sheep)
R01HL-13974-07 Ventricular premature beats and sudden coronary death (human)
P50HL-14136-07 9002 Pulmonary SCOR-Airways obstructive diseases - Physiology core (human, animal)
** P50HL-14136-07 9003 Pulmonary SCOR-Airways obstructive diseases - Pathology core (human, dogs)
P50HL-14136-07 9004 Pulmonary SCOR-Airways obstructive diseases - Radiology core (human)
** P50HL-14136-07 9007 Pulmonary SCOR-Airways obstructive diseases - Special facilities core
P50HL-14138-05 0014 Center for research on atherosclerosis - Core biostatistics laboratory
** P50HL-14147-08 0016 Specialized center of research in thrombosis - Nuclear medicine core laboratory (human, dogs, rats, rabbits)
** P50HL-14147-08 0017 Specialized center of research in thrombosis - Core coagulation laboratory (human)
** P50HL-14153-07 0018 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary function core
** P50HL-14153-07 0019 Johns Hopkins Lung Center--Chronic diseases of airways - Pathology core (human, animal)
** P50HL-14159-08 0022 Specialized center of research in hypertension - Core laboratory
** P50HL-14159-08 0023 Specialized center of research in hypertension - Core computation
** P50HL-14159-08 0024 Specialized center of research in hypertension - Core resources (clinical, animal models)
** P50HL-14164-07 0026 A/S SCOR-Comparative and experimental atherosclerosis - Comparative pathology unit (pigeons, monkeys)
** P50HL-14164-07 0034 A/S SCOR-Comparative and experimental atherosclerosis - Core lipid analytic laboratory
** P50HL-14164-07 0039 A/S SCOR--Comparative and experimental atherosclerosis - Statistical resource and research management unit
** P50HL-14164-07 0040 A/S SCOR--Comparative and experimental atherosclerosis - Core angiochemistry laboratory
** P50HL-14164-07 0042 A/S SCOR--Comparative and experimental atherosclerosis - Comparative cardiology laboratory (monkeys)
** P50HL-14164-07 0043 A/S SCOR--Comparative and experimental atherosclerosis - Electron microscopy resource laboratory
** P50HL-14187-07 0016 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Core pathology service (dogs, rabbits, human)
** P50HL-14197-07 0008 Support for center of research on arteriosclerosis - Core facility--Lipoprotein preparation, immunochemistry
** P50HL-14214-07 0037 Newborn lung center for hyaline membrane disease - Core--Histopathology laboratories
** P50HL-14217-08 0063 Specialized center of research in thrombosis - Special clinical studies laboratory
** P50HL-14230-07 9001 A/S SCOR--Lipids, atherosclerosis and thrombosis - Core lipid laboratory
** P50HL-14230-07 9002 A/S SCOR--Lipids, atherosclerosis and thrombosis - Core tissue culture laboratory
** P50HL-14237-07 0007 Support for arteriosclerosis center - Core laboratories
M P01HL-14388-07 Regulation of the circulation in pathological states
** P01HL-14388-07 9001 Regulation of the circulation in pathological states - Core facility for hypertensive animal colony (rats)
** P01HL-14388-07 9002 Regulation of the circulation in pathological states - Core immunoassay laboratory (rabbits)
** P01HL-14388-07 9003 Regulation of the circulation in pathological states - Electron probe projects
** P01HL-14388-07 9004 Regulation of the circulation in pathological states - Core biostatistics unit
** P01HL-14388-07 9005 Regulation of the circulation in pathological states - Core administration
** P01HL-14414-07 9001 Environmental influences on cardiorespiratory and cellular functions - Laboratory core facility
** P01HL-14414-07 9002 Environmental influences on cardiorespiratory and cellular functions - Core--Computer facility
** P01HL-14414-07 9003 Environmental influences on cardiorespiratory and cellular functions - Machine and electronics shop--Core facility
** P50HL-15062-07 0021 Study of lipoproteins, artery wall, and atherosclerosis - Core laboratories
** P50HL-15092-07 0013 Immune and fibrotic response to occupational environments - Epidemiology core resource
** P50HL-15092-07 0014 Immune and fibrotic response to occupational environments - Clinical immunology core resource
P60HL-15158-07 0004 Comprehensive sickle cell center - Expression of abnormal hemoglobin synthesis in the neonate and young child
** P60HL-15160-07 0012 Center for sickle cell disease - Core laboratories
** P01HL-15194-07 9001 Pathophysiology of cardiopulmonary dysfunction - Analytical laboratory core

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See Appendix for investigator's name and grant number

P01HL-15194-07 9002 Pathophysiology of cardiopulmonary dysfunction - Data processing laboratory core
** P01HL-15194-07 9003 Pathophysiology of cardiopulmonary dysfunction - Electronics laboratory core
P01HL-15265-05 0004 Program on surgical control of the hyperlipidemias - Coordinating center and central data processing facility
** P50HL-15389-07 0016 Pulmonary SCOR--Hypersensitivity pneumonitis - Pulmonary physiology core (human)
** P50HL-15389-07 0017 Pulmonary SCOR--Hypersensitivity pneumonitis - Immunology core (human)
** P50HL-15389-07 0018 Pulmonary SCOR--Hypersensitivity pneumonitis - Pathology core (human, animal)
** P50HL-15389-07 0019 Pulmonary SCOR--Hypersensitivity pneumonitis - Microbiology core (human, animal)
** P01HL-15832-06 9001 Chemical-structural predispositions to lung injury - Tissue culture studies of lung cell function--Core facility
** P01HL-15835-06 0027 Study of muscles related to heart disease - Core II--Intermediate voltage EM of muscle
** P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)
** P01HL-16769-05 0009 Pathobiologic and host defense reactions in the lung - Electron microscopy and tissue culture core laboratory
P01HL-16769-05 0011 Pathobiologic and host defense reactions in the lung - Core--Laboratory for biomedical preparation (rabbits)
M P01HL-16851-04 Human red cell membrane in health and disease
** P01HL-16851-04 0010 Human red cell membrane in health and disease - Core facility--Hematology clinic
** P01HL-16851-04 0011 Human red cell membrane in health and disease - Ultrastructure laboratory--Core facility
** P01HL-16851-04 0012 Human red cell membrane in health and disease - Computer unit--Core facility
** P01HL-16878-05 0005 Control of ventilation in health and disease - Program core
P60HL-17269-04 0004 National heart and blood vessel research and demonstration center - Atherosclerosis--Clinical surgical aspects (human)
P60HL-17269-04 0027 National heart and blood vessel research and demonstration center - Non-invasive evaluation of cardiac function--Ischemic heart disease (human, dog)
** P01HL-17421-05 0006 Regulation and exchange in the microcirculation - Core facilities--Optical instrumentation facility
** P50HL-17646-04 0001 Study of ischemic heart disease - Core clinical investigation unit
** P50HL-17646-04 0002 Study of ischemic heart disease - Core data management
** P50HL-17646-04 0003 Study of ischemic heart disease - Core pathology facility (human, dogs)
** P50HL-17646-04 0004 Study of ischemic heart disease - Core experimental animal laboratories
** P50HL-17648-04 0020 Study of ischemic heart disease - Core pathology laboratory--Ischemic heart disease (human, animal)
M P50HL-17651-04 Ischemic heart disease specialized center of research
P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
** P50HL-17651-04 0033 Ischemic heart disease specialized center of research - Core facilities--Computer sciences
** P50HL-17651-04 0035 Ischemic heart disease specialized center of research - Core facilities--Biomedical engineering, biophysics
** P50HL-17651-04 0036 Ischemic heart disease specialized center of research - Core facilities--Cardiovascular pathology (human, dog)
P50HL-17651-04 0046 Ischemic heart disease specialized center of research - Clinical core--Physiological changes/biochemical effects of myocardial ischemia
P50HL-17651-04 0047 Ischemic heart disease specialized center of research - Clinical core--Automated arrhythmia monitoring system
** P50HL-17655-04 0010 Study of ischemic heart disease - Core facility--Cardiovascular pathology (human, animal)
** P50HL-17655-04 0011 Study of ischemic heart disease - Core facility--Cardiovascular nuclear medicine (human, dog)
** P50HL-17665-04 0008 Study of ischemic heart disease - Core laboratory--CPK isoenzyme measurement and myocardial necrosis evaluation
** P50HL-17665-04 0030 Study of ischemic heart disease - Data management
** P50HL-17667-04 0038 Study of ischemic heart disease - Clinical core unit
** P50HL-17667-04 0039 Study of ischemic heart disease - Core human investigative laboratories
** P50HL-17667-04 0040 Study of ischemic heart disease - Core biochemistry--Cardiac metabolism (human)
** P50HL-17667-04 0041 Study of ischemic heart disease - Biophysical sciences core--Data collection and retrieval
** P50HL-17667-04 0042 Study of ischemic heart disease - Core--Central instrumentation and software
** P50HL-17667-04 0044 Study of ischemic heart disease - Core--Data management and analysis
** P50HL-17670-04 0016 Study of ischemic heart disease - Core pathology laboratory (human, dogs, monkeys)
** P50HL-17670-04 0017 Study of ischemic heart disease - Core enzymology laboratory (human)
** P50HL-17670-04 0018 Study of ischemic heart disease - Core electrocardiogram laboratory (human)
** P50HL-17682-04 0008 Study of ischemic heart disease - Clinical core unit
** P50HL-17682-04 0009 Study of ischemic heart disease - Computer core unit
** P50HL-17682-04 0010 Study of ischemic heart disease - Core clinical enzyme laboratory (human, mice, dogs, rats)
** P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
** P50HL-17682-04 0012 Study of ischemic heart disease - Pathology core laboratory (human)
** P50HL-17682-04 0023 Study of ischemic heart disease - Core cell and organ culture laboratory (mice)
** P50HL-18318-03 0001 Pathogenesis and complications of hypertension - Core clinical program
** P50HL-18318-03 0002 Pathogenesis and complications of hypertension - Core experimental animal facility (rats, rabbits)
** P50HL-18318-03 0003 Pathogenesis and complications of hypertension - Core biochemical laboratory
** P50HL-18323-04 0033 SCOR hypertension center - Core laboratory--Renin, aldosterone and bradykinin methodology
** P50HL-18323-04 0034 SCOR hypertension center - Core--Data management
** P01HL-18575-03 0011 Mechanisms of vascular changes in hypertension - Chemistry laboratory core facility
** P01HL-18575-03 0012 Mechanisms of vascular changes in hypertension - Anatomy core facility
P01HL-18575-03 0013 Mechanisms of vascular changes in hypertension - Biostatistical core
P01HL-18576-03 0014 Thrombosis research program project - Immunology core
** P01HL-18576-03 0015 Thrombosis research program project - Major equipment core
P01HL-18576-03 0016 Thrombosis research program project - Radiochemistry core
** P01HL-18577-03 0008 Lipoproteins--Cell surface interactions - Core laboratory 1
** P01HL-18577-03 0011 Lipoproteins--Cell surface interactions - Core laboratory 4
** P01HL-18708-03 0008 Oxygen, energy and contractility in cardiac tissue - Cardiac cell culture facility
** P01HL-18974-03 0014 Experimental neurogenic hypertension program - Administrative core
** P01HL-18974-03 0015 Experimental neurogenic hypertension program - Neurochemistry core
** P01HL-18974-03 0016 Experimental neurogenic hypertension program - Neuroanatomy core
** P01HL-18974-03 0017 Experimental neurogenic hypertension program - Computer-physiology core
** P50HL-19153-02 0007 SCOR--Pulmonary edemas--Eitology, pathogenesis - Core--Experimental laboratories and support facilities
** P50HL-19153-02 0008 SCOR--Pulmonary edemas--Eitology, pathogenesis - Core--Biomedical engineering
** P50HL-19155-02 0008 Pathophysiology of pulmonary edema - Core microscopy laboratory
** P50HL-19156-02 0006 Pulmonary SCOR--Chronic diseases of airways - Core microscopy laboratory
** P50HL-19157-02 0001 Studies in cystic fibrosis and bronchiolitis - Laboratory core unit
** P50HL-19157-02 0002 Studies in cystic fibrosis and bronchiolitis - Clinical core
** P50HL-19170-02 0010 Harvard pulmonary SCOR--Chronic diseases of the airways - Computer Core
** P50HL-19171-02 0012 Pulmonary SCOR--Lung injury by childhood infections - Laboratory support core
** P50HL-19185-02 0012 Pulmonary SCOR--Neonatal respiratory distress syndromes - Core microscopy lab
** P50HL-19187-02 0013 Pediatric pulmonary SCOR--Hyaline membrane disease - Research resources core
** P50HL-19190-02 0001 Pulmonary SCOR--Pathophysiology, management of IROS - Core--Clinical research center (infants)
** P50HL-19190-02 0002 Pulmonary SCOR--Pathophysiology, management of IROS - Core--Demonstration and dissemination
** P01HL-19259-03 0006 Digoxin-specific antibody in human therapy - Core
** P50HL-19362-02 0013 A/SSCOR--Atherosclerosis in nonhuman primates - Core laboratory--Lipid biochemistry (baboons)
** P50HL-19362-02 0014 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Behavior observation and manipulation (baboon)
** P50HL-19362-02 0015 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Pathology and morphometry (baboons)
** P50HL-19362-02 0016 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Animal services (baboon)
** P50HL-19362-02 0017 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Data management, statistical analysis
** P01HL-19737-02 0012 Cellular and molecular aspects of respiratory physiology - Mass spectrometer facility
** P01HL-19737-02 0013 Cellular and molecular aspects of respiratory physiology - Cell metabolism analytical facility
** P01HL-19737-02 0014 Cellular and molecular aspects of respiratory physiology - Cell separation facility
** P01HL-20552-02 9001 The development and regression of cardiac hypertrophy - Core A--Pathology
** P01HL-20552-02 9003 The development and regression of cardiac hypertrophy - Core D--Amino acids analysis
** P01HL-20581-01 9001 Vascular neuroeffector mechanisms in health and disease - Morphology core
** P01HL-20581-01 9002 Vascular neuroeffector mechanisms in health and disease - Biochemistry core
** P01HL-20592-02 0014 Cell biology of cardiac and skeletal muscle - Core laboratory
** P01HL-20948-02 9001 Molecular basis of cholesterol metabolism - Tissue culture core laboratory
** P01HL-20948-02 9002 Molecular basis of cholesterol metabolism - Microscopy core laboratory
M P01HL-20984-02 Cellular mechanisms in cardiac hypertrophy
** P01HL-20984-02 9001 Cellular mechanisms in cardiac hypertrophy - Animal models and preparation of contractile proteins
** P01HL-20984-02 9002 Cellular mechanisms in cardiac hypertrophy - The heart in organ culture
** P01HL-20993-02 0011 Population dynamics of arterial cells in atherogenesis - Light and electron microscopy laboratories--Core
** P01HL-20993-02 0012 Population dynamics of arterial cells in atherogenesis - Chemistry laboratory--Core
M P01HL-20994-02 Dynamics of neutrophil elastase in the lung
** P01HL-20994-02 9001 Dynamics of neutrophil elastase in the lung - Biochemistry and immunology core
** P01HL-20994-02 9002 Dynamics of neutrophil elastase in the lung - Ultrastructural core
** P01HL-20994-02 9003 Dynamics of neutrophil elastase in the lung - Autoradiography--Histology core
P01HL-21016-02 0018 Sickle cell anemia and other hemoglobinopathies - Scanning and transmission electron microscopy
** P01HL-21584-02 9001 Respiratory mechanics in normal and abnormal states - Technical and equipment core
** R01HL-21684-02 0003 Radionuclide infarct sizing and therapy evaluation - Core pathology laboratory (dogs, human)
** P01HL-22163-01 9001 Surface thrombogenesis--Mechanisms and prevention - Polymers for studing blood-material interactions core
** P01HL-22602-01 9001 Pathophysiology of the endothelium - Morphology core
** P01HL-22602-01 9002 Pathophysiology of the endothelium - Core--Culture of blood vessel--Derived cells
** P01HL-22619-01 9001 Cellular mechanisms of heart failure - Experimental pathological models core
** P01HL-22619-01 9002 Cellular mechanisms of heart fail
** P01HL-22619-01 9003 Cellular mechanisms of heart failure - Computer facility core
** P01HL-22633-01 9001 Cellular and molecular biology of lipoprotein metabolism - Tissue culture core
** P01HL-22633-01 9002 Cellular and molecular biology of lipoprotein metabolism - Lipoprotein laboratory core
M P60HL-23282-01 Comprehensive hospital/community sickle cell center
** P60HL-23282-01 9001 Comprehensive hospital/community sickle cell center - Core--Institutionalization of education, screening and counseling
** P60HL-23282-01 9002 Comprehensive hospital/community sickle cell center - Core--Model sickle cell service for neighborhood health centers
N01HR-62930-03 Lung cell resource facility
N01HV-32949-11 Modification of silicon elastomers for medical devices
** N01HV-72950-02 Central laboratory for propranolol heart trial

BIOMEDICAL MANPOWER

SEE HEALTH SCIENCES PROFESSIONS, HEALTH SCIENCES MANPOWER

BIOMEDICAL REGISTRIES AND REFERRAL CENTERS

SEE ALSO BLOOD PRESERVATION, BLOOD BANKS, CENTERS-RESOURCES-REGISTRIES
SEE ALSO CHEMICAL AND DRUG REGISTRIES, REFERRAL CENTERS AND RESOURCES
SEE ALSO GENETIC REGISTRIES AND REFERRAL CENTERS
SEE ALSO HEALTH RECORD SYSTEMS, PATIENT (DISEASE) REGISTRIES
SEE ALSO HEALTH SCIENCES PROFESSIONS, HEALTH SCIENCES MANPOWER DATA AND REGISTRIES
SEE ALSO TISSUE (CELL) CULTURE, CELL CULTURE COLLECTIONS BANKS AND REGISTRIES
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANTATION RESOURCES, REFERRAL CENTERS AND REGISTRIES
SEE ALSO TISSUE RESOURCES, REGISTRIES
R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)
M P01HL-04664-18 Cardiovascular and lung dynamics
P01HL-08899-14 0072 Tolerance to respiratory gases in health and disease - Inert gas exchange isobaric gas counterdiffusion and decompression

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-10582-12 Thrombosis and hemostasis-Analysis, methods and standards (human, cattle, venom)
** P50HL-14164-07 0039 A/S SCOR-Comparative and experimental atherosclerosis Statistical resource and research management unit
** P60HL-15158-07 0008 Comprehensive sickle cell center Core laboratory of the center
P60HL-17269-04 0004 National heart and blood vessel research and demonstration center Atherosclerosis-Clinical surgical aspects (human)
P60HL-17292-04 0023 Vermont Lung Center Health information resources
P01HL-18575-03 0013 Mechanisms of vascular changes in hypertension - Biostatistical core
** N01HV-53010-03 NAS-NRC twin registry

BIOMEDICAL RESEARCH

SEE HEALTH SCIENCES RESEARCH (GENERAL)*

BIOMEDICAL RESEARCH-EVALUATION-PLANNING

SEE HEALTH SCIENCES RESEARCH ANALYSIS-EVALUATION-PLANNING

BIOMEDICAL RESOURCES (GENERAL)

SEE ALSO ANIMAL FACILITIES, RESOURCES
SEE ALSO BIOLOGICAL PREPARATIONS AND STANDARDIZATION
SEE ALSO BLOOD PRESERVATION, BLOOD BANKS, CENTERS-RESOURCES-REGISTRIES
SEE ALSO CHEMICAL AND DRUG REGISTRIES, REFERRAL CENTERS AND RESOURCES
SEE ALSO IMMUNOLOGICAL PREPARATIONS (GENERAL)(INCLUDING CERTIFICATION AND STANDARDIZATION)
SEE ALSO TISSUE (CELL) CULTURE, CELL CULTURE COLLECTIONS BANKS AND REGISTRIES
SEE ALSO TISSUE RESOURCES, REGISTRIES
R01HL-10880-13 Purification of human erythropoietin for research use
P01HL-13330-08 0062 Mechanical circulatory support - CORE facilities
R01HL-13587-06 Synthesis of renin inhibitors and analog phosphatides (rats)
P60HL-15168-07 0001 Comprehensive sickle cell disease center - Screening program (human)
R01HL-16675-05 Human urinary erythropoietin collection
P01HL-18708-03 0008 Oxygen, energy and contractility in cardiac tissue - Cardiac cell culture facility
** P01HL-19717-02 0046 Response of the lung to injury - Bioengineering section
R01HL-20219-02 Cryopreservation of the isolated heart (rats)

BIOMEDICAL SYSTEMS AUTOMATED

SEE ALSO COMPUTER (GENERAL) INCL COMPUTER DATA PROCESSING (GENERAL)
SEE ALSO COMPUTER CENTERS
SEE ALSO HOSPITALS, INTENSIVE CARE UNITS
SEE ALSO OPTICS, IMAGE PROCESSING ANALYSIS AND DISPLAY*
P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique
P01HL-08214-15 0047 Chemical and biological properties of lipids - High resolution liquid chromatography for the analysis of biological substances
P01HL-09011-15 0017 A research and resource program in blood - Operations research laboratory
** P01HL-11310-12 0093 Mechanisms of cardiovascular disease - Multiple dipole electrocardiogram project (human, dogs)
P01HL-12373-10 0014 Cardiopulmonary physiology and pathophysiology - Analog digital computation and simulation facility
P50HL-14138-05 0008 Center for research on atherosclerosis - Core lipid laboratory (human)
P50HL-14141-05 0008 SCOR for atherosclerosis in childhood - Core laboratory
** P50HL-14236-05 0012 Prevention of premature arteriosclerosis - Automated lipid analysis
** P01HL-15265-05 0003 Program on surgical control of the hyperlipidemias - Central lipid laboratory
** P60HL-17269-04 0016 National heart and blood vessel research and demonstration center - New analytical methodology for atherosclerosis studies
R01HL-20546-02 Chemical analysis of human arterial elastin
R01HL-20751-01 High speed liquid chromatography of hemoglobins (human)
R01HL-20788-02 Preservation of human platelets for transfusion

BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED DIAGNOSIS

M P01HL-04664-18 Cardiovascular and lung dynamics
P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
P01HL-04664-18 0005 Cardiovascular and lung dynamics - Applications of current research, equipment and techniques
P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
** P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
** P01HL-04664-18 0011 Cardiovascular and lung dynamics Detection of abnormal segments of the human ventricle by measure of asynergy
** P01HL-04664-18 0012 Cardiovascular and lung dynamics Quantitative single plane left ventricular angiography (human)
** P01HL-04664-18 0013 Cardiovascular and lung dynamics - Ventricular function in coronary disease using NTG and ventriculograms (human)
** P01HL-04664-18 0014 Cardiovascular and lung dynamics Clinical application of computer analysis of ventricular wall motion
P01HL-04664-18 0015 Cardiovascular and lung dynamics - Computer system for the cardiovascular laboratory
P01HL-06308-18 0010 Mechanisms and therapy of circulatory disease - Ventricular arrhythmias during exercise to CHD and myocardial ischemia (human)
** R01HL-07575-15 Analysis of time-coherent cardiovascular data
** P01HL-11678-11 0058 Cardiovascular dynamics and their control - Overall control of the circulation--Computer analysis
P01HL-12373-10 0014 Cardiopulmonary physiology and pathophysiology - Analog digital computation and simulation facility
R01HL-13974-07 Ventricular premature beats and sudden coronary death (human)
R01HL-15016-07 New concepts in cardiac ultrasound technology (human)
** R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
R01HL-15191-07 Multiparameter methods for cardiovascular research
P01HL-15265-05 0012 Program on surgical control of the hyperlipidemias - Central arteriography--Radiography laboratory (human)
** R01HL-16260-04 Development of clinical cine ultrasound cardiography
** R01HL-16403-05 Prognostication by computer--Analyzed vectorcardiogram (human)
R01HL-16487-05 Computer controlled two dimensional echocardiography
** R01HL-16791-03 Computer linkage for a dual camera system
R01HL-16901-05 Multipolar linkage between heart geometry and surface (human, dogs)
R01HL-16908-04 Myocardial function, risk factors and future CHD (men)
R01HL-16909-04 Myocardial function, risk factors and future CHD (men)
** P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Dynamics of ischemic heart disease (human, dog)
P60HL-17269-04 0027 National heart and blood vessel research and demonstration center - Non-invasive evaluation of cardiac function--Ischemic heart disease (human, dog)
P60HL-17292-04 0031 Vermont Lung Center - Regional respiratory computer network
P50HL-17646-04 0002 Study of ischemic heart disease - Core data management
P50HL-17646-04 0010 Study of ischemic heart disease - Compliance in ischemic myocardium--Altered cardiac performance (human, dogs)
** P50HL-17648-04 0006 Study of ischemic heart disease - Ventricular performance and myocardial perfusion in obstructive coronary disease
** P50HL-17648-04 0033 Study of ischemic heart disease - Data management--Electrocardiographic analysis system
** P50HL-17648-04 0034 Study of ischemic heart disease - Data management--Hemodynamic data
P50HL-17651-04 0016 Ischemic heart disease specialized center of research - Retroperfusion of coronary venus circulation with therapeutic agents (dogs)
P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
P50HL-17651-04 0039 Ischemic heart disease specialized center of research - Measurement and prediction of infarct size (human, dog)
P50HL-17655-04 0011 Study of ischemic heart disease - Core facility--Cardiovascular nuclear medicine (human, dog)
** P50HL-17655-04 0012 Study of ischemic heart disease - DATA management
** P50HL-17667-04 0029 Study of ischemic heart disease - Computer diagnosis of cardiac arrhythmias after open heart surgery (human)
** P50HL-17669-04 0013 Ischemic heart disease center (SCOR) - Exercise in patients with ischemic heart disease
P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
P50HL-17670-04 0008 Study of ischemic heart disease - Surgical treatment of cardiac rhythm disorders (human, dogs)
P50HL-17670-04 0014 Study of ischemic heart disease - Real time ultrasound imaging in ischemic heart disease (human, dog)
P50HL-17670-04 0018 Study of ischemic heart disease - Core electrocardiogram laboratory (human)
** R01HL-17931-04 Normalized body surface potential maps (children)
R01HL-18769-04 Studies in survivors of lethal arrhythmias (human)
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-18783-04 Detection and control of ventricular premature beats (human)
R01HL-18805-04 0001 Sudden cardiac death and the onset of myocardial infarction Predictive value of maximum exercise stress testing (human)
R01HL-18805-04 0005 Sudden cardiac death and the onset of myocardial infarction Sudden death survivors Radionuclide studies (human)
M R01HL-18808-04 Prediction and prevention of sudden cardiac death
R01HL-18808-04 0001 Prediction and prevention of sudden cardiac death Prognostic significance of premature ventricular contractions (human)
** R01HL-18808-04 0003 Prediction and prevention of sudden cardiac death - Technical support (computer)
P01HL-19717-02 0046 Response of the lung to injury Bioengineering section
R01HL-20374-03 Myocardial function-Risk factors and future CHD (human)
R01HL-20632-02 An optimal fetal heart monitor (human)
R01HL-20674-02 Evaluation of cardiac function with radioactive tracers
R01HL-20835-02 Signal analysis of turbulence study in blood
R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
R01HL-20895-03 0003 Cineangiographic studies of cardiovascular system - Densitometry in coronary stenosis (human)
R01HL-20895-03 0005 Cineangiographic studies of cardiovascular system - Computerized axial tomography--Cardiac wall motion and infarction (dogs)
R23HL-21253-01 Anatomical models in computer-aided image analysis
R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
R01HL-21654-01 Autonomic determinants of arrhythmia due to ischemia (cats)
R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
R01HL-21707-01 Quantification of infarct size by emission tomography (human, dogs)
R01HL-21710-01 Electrocardiographic methods of quantifying infarct size (human, dogs)
R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies--Ischemia and infarction
** R01HL-21785-01 Left ventricular wall motion analysis
R01HL-21796-01 Applied pulsatile hemodynamics in vascular surgery (dogs)
** R01HL-21846-01 Cardiac failure detection by radiography and optics (monkeys)
R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
R01HL-22321-01 Cardiac output from the pneumocardiogram (dogs)
R01HL-22326-01 Noninvasive measurement of cardiac output (dogs)
R23HL-22787-01 Cardiac volume by biplane echocardiography (human)
R01HL-23983-01 Quantitative radiocardiography (human, dogs)
N01HV-72924-04 Non-invasive detection of atherosclerotic lesions (human, animals)
N01HV-72927-00 Systems for non-invasive detection of atherosclerotic lesions (human)
N01HV-72928-04 Develop high resolution ultrasonic imaging techniques

BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED MEDICAL DECISION MAKING

SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED DIAGNOSIS
M P01HL-04664-18 Cardiovascular and lung dynamics
** P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
P01HL-04664-18 0012 Cardiovascular and lung dynamics - Quantitative single plane left ventricular angiography (human)
** P01HL-04664-18 0015 Cardiovascular and lung dynamics - Computer system for the cardiovascular laboratory
P01HL-06350-17 0015 Hemostasis research program project - Genetics (human)
R01HL-07575-15 Analysis of time-coherent cardiovascular data
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P50HL-14138-05 0014 Center for research on atherosclerosis - Core biostatistics laboratory
P50HL-14214-07 0033 Newborn lung center for hyaline membrane disease - Statistical modeling, predictive classification in clinical management of HMD

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P60HL-17292-04 0029 Vermont Lung Center - Computer-assisted pre-operative evaluation (human)
** P60HL-17292-04 0031 Vermont Lung Center - Regional respiratory computer network
P50HL-17667-04 0029 Study of ischemic heart disease - Computer diagnosis of cardiac arrhythmias after open heart surgery (human)
** P50HL-17670-04 0001 Study of ischemic heart disease - Data management
** R01HL-22963-01 Symbolic logic analysis of congenital heart disease (human)

BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED PATIENT CARE

SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, PATIENT MONITORING (MONITORING DEVICES)
SEE ALSO HOSPITALS, INTENSIVE CARE UNITS
P01HL-06308-18 0044 Mechanisms and therapy of circulatory disease - Echocardiography to determine site of ectopic impulse formation (human, dogs)
** P01HL-11310-12 0065 Mechanisms of cardiovascular disease - Algorithms for arterial pressure by automatic vasoactive agents control (human)
P01HL-12738-10 0092 Physiologic pharmacology and its clinical applications - Subendocardial ischemia following open heart surgery (human)
M P01HL-13737-07 Assisted circulation
P01HL-13737-07 0013 Assisted circulation - Incorporation of sensors (human, dogs)
** P01HL-13737-07 0025 Assisted circulation - Driving system based on quantitative criteria (human, dogs)
** P01HL-13737-07 0039 Assisted circulation - Computer controlled intraortic balloon pumping
** P01HL-16851-04 0012 Human red cell membrane in health and disease - Computer unit--Core facility
P60HL-17269-04 0030 National heart and blood vessel research and demonstration center - Cardiovascular engineering laboratories (human)
** P60HL-17269-04 0031 National heart and blood vessel research and demonstration center - Computer-assisted data acquisition and clinical data processing
P60HL-17292-04 0029 Vermont Lung Center - Computer-assisted pre-operative evaluation (human)
P50HL-17651-04 0034 Ischemic heart disease specialized center of research - Core facilities--Data management
P50HL-17667-04 0029 Study of ischemic heart disease - Computer diagnosis of cardiac arrhythmias after open heart surgery (human)
P50HL-18323-04 0034 SCOR hypertension center - Core--Data management
R01HL-22517-01 Engineering development of an ultrasonic ventilometer (human)

BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER PROCESSING OF CLINICAL DATA

SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED DIAGNOSIS
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED MEDICAL DECISION MAKING
N01HB-72982-03 Statistical coordinating center for sickle cell disease
R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
R01HL-02799-22 Abnormal hemoglobins (human)
R01HL-03429-18 Central nervous system and coronary heart disease (human)
P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
P01HL-04664-18 0005 Cardiovascular and lung dynamics - Applications of current research, equipment and techniques
P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
P01HL-04664-18 0011 Cardiovascular and lung dynamics - Detection of abnormal segments of the human ventricle by measure of asynergy
P01HL-04664-18 0013 Cardiovascular and lung dynamics - Ventricular function in coronary disease using NTG and ventriculograms (human)
P01HL-04664-18 0014 Cardiovascular and lung dynamics - Clinical application of computer analysis of ventricular wall motion
P01HL-04664-18 0015 Cardiovascular and lung dynamics - Computer system for the cardiovascular laboratory
R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
P01HL-06285-18 0146 Cardiovascular-respiratory physiology and biochemistry - Pathogenesis and detection of hypoxic pulmonary edema (human, animals)
P01HL-06296-18 0003 Cardiovascular and pulmonary adaptation to stress - Human exercise studies (human, dogs)
P01HL-06308-18 0010 Mechanisms and therapy of circulatory disease - Ventricular arrhythmias during exercise to CHD and myocardial ischemia (human)
P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
R01HL-07575-15 Analysis of time-coherent cardiovascular data
R01HL-09474-11 Natural history-congenital heart defects--Joint study (human)
R01HL-10417-12 Multiple systems in electrocardiography (human)
R01HL-10718-10 Natural history of congenital heart defects--Joint study (human)
P01HL-11307-12 0002 Biophysical studies in pediatric cardiology - Cardiac extracellular electrophysiology (human, dog, chimpanzee)
** P01HL-11307-12 9001 Biophysical studies in pediatric cardiology - Core support--computer science
P01HL-11310-12 0071 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial flutter (human)
P01HL-11310-12 0072 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial tachycardia with block (human)
P01HL-11310-12 0081 Mechanisms of cardiovascular disease - Analysis of regional left ventricular function (human)
P01HL-11310-12 0083 Mechanisms of cardiovascular disease - Ventricular volume and hemodynamics in adult congenital heart disease
P01HL-11310-12 0084 Mechanisms of cardiovascular disease - Evaluation of cardiac function in chronic renal failure (human)
P01HL-11310-12 0092 Mechanisms of cardiovascular disease - Exercise electrophysiology (human)
P01HL-11310-12 0093 Mechanisms of cardiovascular disease - Multiple dipole electrocardiogram project (human, dogs)
P01HL-11310-12 9002 Mechanisms of cardiovascular disease - Core support-centralized electronic laboratory
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
P01HL-12373-10 0014 Cardiopulmonary physiology and pathophysiology - Analog digital computation and simulation facility
R01HL-12542-07 Natural history, congenital heart defects--Joint study (human)
P01HL-12738-10 0117 Physiologic pharmacology and its clinical applications - Ventricular arrhythmias in ischemic heart disease (human)
P01HL-13330-08 0062 Mechanical circulatory support - CORE facilities
P01HL-13737-07 0013 Assisted circulation - Incorporation of sensors (human, dogs)
P01HL-13737-07 0025 Assisted circulation - Driving system based on quantitative criteria (human, dogs)
** R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
R01HL-13974-07 Ventricular premature beats and sudden coronary death (human)
P50HL-14136-07 0005 Pulmonary SCOR--Airways obstructive diseases - Radiographic studies of airways obstructive disease (human)
** P50HL-14136-07 9001 Pulmonary SCOR--Airways obstructive diseases - Biometrics core
P50HL-14138-05 0014 Center for research on atherosclerosis - Core biostatistics laboratory
P50HL-14138-05 0016 Center for research on atherosclerosis - Computer analysis of angiograms
** P50HL-14159-08 0023 Specialized center of research in hypertension - Core computation
P50HL-14164-07 0039 A/S SCDR--Comparative and experimental atherosclerosis - Statistical resource and research management unit
P50HL-14192-08 0008 Specialized center of research in hypertension - New radiographic methods--Recognition of renovascular hypertension (human, dog)
P50HL-14212-07 0017 Correlated studies of pulmonary fibrosis - Biometry core
P50HL-14214-07 0033 Newborn lung center for hyaline membrane disease - Statistical modeling, predictive classification in clinical management of HMD
P50HL-14214-07 0036 Newborn lung center for hyaline membrane disease - Core--Biomedical engineering
P50HL-14218-07 0011 Pulmonary SCOR--Newborn lung center - Administrative and computer core
P50HL-14218-07 0012 Pulmonary SCOR--Newborn lung center - Longitudinal study of RDS--On-line fetal and neonatal monitoring (human)
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-14414-07 0007 Environmental influences on cardiorespiratory and cellular functions - Neural control of respiration (human, cats)
R01HL-14688-05 Myocardial assessment by inverse electrocardiography (monkey)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
P60HL-15157-07 0002 Comprehensive center for sickle cell disease - Central data bank and research file
P60HL-15160-07 0009 Center for sickle cell disease - Natural history of sickle cell disease (human)
R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
P01HL-15265-05 0011 Program on surgical control of the hyperlipidemias - Central electrocardiography laboratory (human)
** P50HL-15389-07 0020 Pulmonary SCOR--Hypersensitivity pneumonitis - Computer applications and data analysis core
R01HL-15390-12 Regulation of blood flow in the microcirculation
R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
P60HL-16005-05 0018 Comprehensive sickle cell center - Comprehensive study--Natural history of sickle cell disease in adults (human)
P60HL-16008-06 0012 Wayne State University comprehensive sickle cell center - Central data management--Computer system
** R01HL-16403-05 Prognostication by computer--Analyzed vectorcardiogram (human)
R01HL-16461-05 Late results of valve replacement--Computer analysis (human)
R01HL-16484-04 Radiographic ventriculometry for coronary heart disease (human)
R01HL-16487-05 Computer controlled two dimensional echocardiography
R01HL-16580-04 Mathematical models for studying sickle-cell disease
R01HL-16601-05 Structure and function of blood proteins (human, cattle)
R01HL-16657-06 Innervation of coronary arteries and heart (rats)
R01HL-16759-05 Ultrasonic measurement of cardiac geometry and flow
R01HL-16791-03 Computer linkage for a dual camera system
R01HL-16901-05 Multipolar linkage between heart geometry and surface (human, dogs)
P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)
** P60HL-17269-04 0031 National heart and blood vessel research and demonstration center - Computer-assisted data acquisition and clinical data processing
P60HL-17292-04 0031 Vermont Lung Center - Regional respiratory computer network
R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
R01HL-17578-04 Exercise performance in children with heart disease
R01HL-17604-03 Wearable blood pressure and ECG recording system
P50HL-17646-04 0002 Study of ischemic heart disease - Core data management
P50HL-17646-04 0010 Study of ischemic heart disease - Compliance in ischemic myocardium--Altered cardiac performance (human, dogs)
** P50HL-17648-04 0032 Study of ischemic heart disease - Data management--Statistics and data files
P50HL-17648-04 0033 Study of ischemic heart disease - Data management--Electrocardiographic analysis system
** P50HL-17648-04 0034 Study of ischemic heart disease - Data management--Hemodynamic data
** P50HL-17651-04 0033 Ischemic heart disease specialized center of research - Core facilities--Computer sciences
** P50HL-17651-04 0034 Ischemic heart disease specialized center of research - Core facilities--Data management
P50HL-17655-04 0012 Study of ischemic heart disease - DATA management
** P50HL-17665-04 0018 Study of ischemic heart disease - Computer correlation of data--Patients with ischemic heart disease
P50HL-17665-04 0027 Study of ischemic heart disease - Positron imaging of regional myocardial perfusion (human, dog)
** P50HL-17665-04 0030 Study of ischemic heart disease - Data management
P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
** P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
P50HL-17667-04 0039 Study of ischemic heart disease - Core human investigative laboratories
** P50HL-17667-04 0041 Study of ischemic heart disease - Biophysical sciences core--Data collection and retrieval
P50HL-17667-04 0042 Study of ischemic heart disease - Core--Central instrumentation and software
** P50HL-17667-04 0044 Study of ischemic heart disease - Core--Data management and analysis
P50HL-17670-04 0001 Study of ischemic heart disease - Data management
P50HL-17670-04 0008 Study of ischemic heart disease - Surgical treatment of cardiac rhythm disorders (human, dogs)
P50HL-17670-04 0014 Study of ischemic heart disease - Real time ultrasound imaging in ischemic heart disease (human, dog)
** P50HL-17670-04 0018 Study of ischemic heart disease - Core electrocardiogram laboratory (human)
** P50HL-17682-04 0009 Study of ischemic heart disease - Computer core unit

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL 17731 04 0006 Physiological basis of pulmonary disease Ventilation pertusion ratios (human, dogs)
P01HL 17731 04 0012 Physiological basis of pulmonary disease Statistics and computing Core
R01HL 17993 04 0002 Ventricular dynamics from surgically inserted markers Left ventricle function in human cardiac allograft
R01HL 18144 03 Preprocessor system for cardiograms (human)
P50HL 18318 03 0001 Pathogenesis and complications of hypertension Core clinical program
P50HL 18323 04 0033 SCOR hypertension center Core laboratory-Renin, aldosterone and bradykinin methodology
** P50HL 18323 04 0034 SCOR hypertension center Core Data management
R01HL 18672 03 Dynamic studies of clot structure formation (human)
R01HL 18776 04 Prevention of acute and fatal cardiovascular disease (human)
R01HL 18808 04 0001 Prediction and prevention of sudden cardiac death Prognostic significance of premature ventricular contractions (human)
R01HL 18808 04 0003 Prediction and prevention of sudden cardiac death Technical support (computer)
R01HL 18968 03 Computer technology for transaxial tomography
R01HL 19053 03 Vascular anatomy of the telencephalon (human)
P50HL 19153 02 0008 SCOR Pulmonary edemas Etiology, pathogenesis - Core Biomedical engineering
** P50HL 19170 02 0010 Harvard pulmonary SCOR Chronic diseases of the airways - Computer Core
P50HL 19362 02 0017 A/S SCOR Atherosclerosis in nonhuman primates - Core laboratory--Data management, statistical analysis
R01HL 19406 03 Grading of atherosclerosis by CW doppler ultrasound (human, dogs)
R01HL 19451 03 0001 Functional characteristics of the left heart Ventricular performance using epicardial radiopaque markers (human)
R01HL 19451 03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL 19451 03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
P01HL 19717 02 0044 Response of the lung to injury - Lung sound analysis (human)
R01HL 19791 02 Ultrasonic monitoring visceral blood vessels
R01HL 19864 03 0002 Blood pressure of children and young adults - Data epidemiology center
R01HL 20274 02 Gated imaging with the MGH x-ray camera
R01HL 20356 02 Development and evaluation of an artificial heart (calves)
R01HL 20597 02 Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits)
R01HL 20677 02 Radionuclide studies in congenital heart disease
R01HL 20724 01 Behavioral consequences of hypertension (human)
R01HL 20751 01 High speed liquid chromatography of hemoglobins (human)
R01HL 21052 01 Evaluation of a digitalis therapy advisor
R01HL 21088 02 Genetic patterns in deaths from MI and stroke in Utah
R01HL 21221 02 Clinical antiarrhythmic and pharmacodynamic studies
R23HL 21253 01 Anatomical models in computer-aided image analysis
P01HL 21584 02 0006 Respiratory mechanics in normal and abnormal states - Respiratory mechanics in health and disease (human, pigs)
** P01HL 21584 02 9002 Respiratory mechanics in normal and abnormal states - Computational and statistical core facility
R01HL 22636 01 Newborn lung function during mechanical ventilation (human)
N01HR 629D1 04 Measure pulmonary function in infants and children (also dogs, rabbits)
N01HV 12156 1D Lipid research clinic
N01HV 12158 10 Establishment of a lipid research clinic
N01HV 12159 09 Lipid research clinic
N01HV 12160 15 Establishment of a lipid research clinic
N01HV 22914 08 Establishment of a lipid research clinic
N01HV 32931 09 Establishment of a lipid research clinic center
N01HV 53015 D9 Establishment of a lipid research clinic (human)
N01HV 72927 00 Systems for non-invasive detection of atherosclerotic lesions (human)
N01HV 72928 04 Develop high resolution ultrasonic imaging techniques

BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER PROCESSING OF LABORATORY DATA (GENERAL)

R01HL 01015 27 Hypertension and left ventricular hypertrophy (dogs)
RD1HL 02363 2D Kinetics of water and electrolytes in shock (dogs, rats)
P01HL 04664 18 0001 Cardiovascular and lung dynamics X-ray projection image videodensitometry (dogs)
P01HL 06785 18 0173 Cardiovascular respiratory physiology and biochemistry Skeletal and cardiac muscle function
P01HL 06296 18 0007 Cardiovascular and pulmonary adaptation to stress Cardiovascular control during isometric exercise (cats)
R01HL 07723 15 Reflex control of vascular capacitance in shock
R01HL 07878 16 Metabolism of neutral sterols (rats, rabbits)
P01HL 08214 15 0006 Chemical and biological properties of lipids Analysis and properties of lipids
** P01HL 08805 15 0043 Regulation of ventilation and pulmonary circulation Computer core facility
P01HL 08899 14 0028 Tolerance to respiratory gases in health and disease Inert gas exchange, oxygen influences organs and tissues (human, rabbits, dogs)
R01HL 09921 13 Mechanisms related to congestive heart failure (dogs, human, rat)
R01HL 10330 11 Physiological mechanics of the heart and arteries (dogs, rabbits, horses)
R01HL 10881 13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
** P01HL 11307 12 9001 Biophysical studies in pediatric cardiology Core support--computer science
P01HL 11307 12 9002 Biophysical studies in pediatric cardiology - Biomedical engineering
P01HL 11310 12 0093 Mechanisms of cardiovascular disease Multiple dipole electrocardiogram project (human, dogs)
P01HL 12373 10 0014 Cardiopulmonary physiology and pathophysiology Analog digital computation and simulation facility
R01HL 12711 09 Mathematical approach to cardiovascular mechanics (human, animals)
P01HL 12738 10 0044 Physiologic pharmacology and its clinical applications - Cardioactive drugs and electrophysiological properties of cardiac cells (sheep)
R01HL 12879 09 0010 Pulmonary transport and metabolism in vivo - Lung morphometry in control and edematous lungs (dogs)
R01HL 13036 08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
R01HL 13187 09 Central neural control of cardiovascular function (cats)
P01HL 13480 09 0017 Cardiac electrophysiology Body surface potential mapping (human, dogs)
** P01HL 13480 09 0032 Cardiac electrophysiology Cardiac activation sequence (dogs)
P01HL 13737 07 0007 Assisted circulation - Determination of cardiac status by use of balloon pump (dogs)
P01HL 13737 07 0034 Assisted circulation - Phasic aortic flow and cardiac output from phasic pressures (dogs)
P01HL 13737 07 0035 Assisted circulation - Mapping the geometry and elasticity of the aorta
P01HL 13738 08 0005 Cardiac assist devices and artificial hearts - Development of new materials for artificial heart and assist devices (sheep, dog)
R01HL 13917 20 Secretion and effects of adrenal hormones (human, rabbits, sheep)
P50HL 14159 08 0023 Specialized center of research in hypertension - Core computation
P01HL 14388 07 0214 Regulation of the circulation in pathological states - Deformation pattern and stress analysis of the left ventricle
P01HL 14388 07 0215 Regulation of the circulation in pathological states - Left ventricle model in pathophysiologic states
P01HL 14388 07 0217 Regulation of the circulation in pathological states - Fluid mechanics of aortic flow (dogs, human)
** P01HL 14414 07 9001 Environmental influences on cardiorespiratory and cellular functions - Laboratory core facility
** P01HL 14414 07 9002 Environmental influences on cardiorespiratory and cellular functions - Core--Computer facility
R01HL 14645 D7 Blood flow measurement by ultrasonic catheter tip methods (human, dogs)
P50HL 15092 07 DDD1 Immune and fibrotic response to occupational environments - X-ray diffraction study--Dust exposure in asbestos cement products manufacturing
** P01HL 15194 D7 9002 Pathophysiology of cardiopulmonary dysfunction - Data processing laboratory core
R01HL 15622 D5 Computer simulation in cardiology (rats, dogs)
RD1HL 15698 12 Factors affecting the action of anticoagulants (rats, human)
R01HL 15799 D4 Effect of anesthetics on myocardial function (cats)
P6DHL 16005 05 DD15 Comprehensive sickle cell center - Molecular basis for the sickling phenomenon
R01HL 16076 06 Electrophysiology of fibrillation and defibrillation (human)
R01HL 16093 05 Functional properties of hemoglobin and erythrocytes
P01HL 16878 05 0004 Control of ventilation in health and disease Neurotransmitters in the respiratory system (cats)
P01HL 16878 05 0005 Control of ventilation in health and disease Program core
R01HL 16901 05 Multipolar linkage between heart geometry and surface (human, dogs)
P01HL 16910 05 0008 Regulation of the peripheral circulation Circulation to bone (dogs, baboons)
P6DHL 17269 04 0016 National heart and blood vessel research and demonstration center New analytical methodology for atherosclerosis studies
R01HL 17452 04 Depolarization induced cardiac automaticity (human, animals)
R01HL 17532 04 Infarct size ECG, angio, path, correlation in dogs
R01HL 17592 03 Activation and contraction heat in enlarged hearts (rabbits)
R01HL 17702 04 Electro optical dyes as probes of heart excitability
P01HL 17731 04 0002 Physiological basis of pulmonary disease Biomechanics of the lung (frogs, cats)
P01HL 17731 04 0012 Physiological basis of pulmonary disease - Statistics and computing Core
R01HL 17859 04 Computational methods in cardiac fluid dynamics
R01HL 17998 04 Regulatory mechanisms in blood circulation (dogs)
R01HL 18156 02 Hemodynamics in curved arteries
P01HL 18208 04 0002 Center for the study of blood cell rheology Holography of RBC shape (human)
P01HL 18208 04 0005 Center for the study of blood cell rheology RBC deformability and capillary flow interrelations (human, mice)
** P01HL 18575 03 0013 Mechanisms of vascular changes in hypertension - Biostatistical core
R01HL 18794 04 Prospective studies of conduction disease (human)
R01HL 18868 03 Development of vertebrate vascular control systems (reptiles, amphibians)
R01HL 18969 02 Arterial wall oxygenation (rabbits, dogs)
P01HL 18974 03 0017 Experimental neurogenic hypertension program Computer-physiology core
R01HL 19045 03 Electrophysiology of cardiac automaticity (human, dogs)
R01HL 19076 03 Vagal control of heart rate--A biophysical model (rabbits)
P50HL 19153 02 0008 SCDR--Pulmonary edemas--Etiology, pathogenesis - Core--Biomedical engineering
R01HL 19460 03 Mechanics of the papillary muscle and the left ventricle (cats, rabbits)
P01HL 19717 02 0046 Response of the lung to injury - Bioengineering section
R01HL 19824 02 Mass transfer in the microcirculation
R01HL 19830 02 Shear to aortic histamine synthesis and permeability (dogs)
** R01HL 20678 02 Cardiovascular adaptation to stress in disease states (dogs)
R01HL 20800 17 Neural basis of respiratory and vasomotor activity (cats)
** P01HL 21584 02 9002 Respiratory mechanics in normal and abnormal states - Computational and statistical core facility
R01HL 21672 01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL 21764 01 Ultramicroanalysis of prostaglandins and related compounds (rats)
R01HL 22136 02 Histamine and cardiac adenyl cyclase
R01HL 22223 01 The cardio-pulmonary junction (dogs, models)
R01HL 22329 01 Active prosthetic myocardium--Effects on LV function (dogs)
R01HL 22562 02 Mechanism of cardiac action potential propagation (tunicates)
N01HV 32933 07 Hypertension detection and follow-up program central laboratory (human)

BIOMEDICAL SYSTEMS AUTOMATED, ELECTRONIC RECORDING SYSTEMS

P01HL 12373 1D 0015 Cardiopulmonary physiology and pathophysiology - Cine angiographic-hemodynamic facility
R01HL 16759 05 Ultrasonic measurement of cardiac geometry and flow
RD1HL 18D4D D4 Waveform dependency in defibrillation (calves)

BIOMEDICAL SYSTEMS AUTOMATED, HEALTH CARE FACILITIES (SYSTEMS) AUTOMATED

SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED DIAGNOSIS
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED MEDICAL DECISION MAKING
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED PATIENT CARE
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER PROCESSING OF CLINICAL DATA
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, PATIENT MONITORING (MONITORING DEVICES)
R01HL 16791 03 Computer linkage for a dual camera system

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

BIOMEDICAL SYSTEMS AUTOMATED, HEALTH CARE FACILITIES (SYSTEMS) INFORMATION SYSTEMS

SEE ALSO HEALTH RECORDS (SYSTEMS) AUTOMATED

P01HL-09011-15 0017 A research and resource program in blood - Operations research laboratory
** P01HL-10436-13 0009 A multidisciplinary study of congenital heart disease - Pathophysiology and morphogenesis of congenital heart disease (human)
R01HL-13881-08 The American Red Cross National Fractionation Center
** P50HL-14236-05 0010 Prevention of premature arteriosclerosis - Computer programs
** P60HL-15157-07 0002 Comprehensive center for sickle cell disease - Central data bank and research file
P60HL-15168-07 0002 Comprehensive sickle cell disease center - Patient care
** P01HL-15265-05 0004 Program on surgical control of the hyperlipidemias - Coordinating center and central data processing facility
** P60HL-16008-06 0012 Wayne State University comprehensive sickle cell center - Central data management--Computer system
** R01HL-16791-03 Computer linkage for a dual camera system
P60HL-17265-04 0001 Community blood resource center support - Demonstration and evaluation
** P60HL-17269-04 0031 National heart and blood vessel research and demonstration center - Computer-assisted data acquisition and clinical data processing
** P60HL-17292-04 0023 Vermont Lung Center - Health information resources
** P50HL-17646-04 0002 Study of ischemic heart disease - Core data management
** P50HL-17651-04 0034 Ischemic heart disease specialized center of research - Core facilities--Data management
** P50HL-17655-04 0012 Study of ischemic heart disease - DATA management
** P50HL-17665-04 0018 Study of ischemic heart disease - Computer correlation of data--Patients with ischemic heart disease
** P50HL-17665-04 0030 Study of ischemic heart disease - Oata management
** P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
** P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
P50HL-17667-04 0038 Study of ischemic heart disease - Clinical core unit
** P50HL-17667-04 0041 Study of ischemic heart disease - Biophysical sciences core--Oata collection and retrieval
** P50HL-17667-04 0042 Study of ischemic heart disease - Core--Central instrumentation and software
** P50HL-17667-04 0044 Study of ischemic heart disease - Core--Data management and analysis
** P50HL-17670-04 0001 Study of ischemic heart disease - Data management
** P50HL-17682-04 0009 Study of ischemic heart disease - Computer core unit
** P50HL-18323-04 0034 SCOR hypertension center - Core--Oata management
N01HV-22914-08 Establishment of a lipid research clinic
N01HV-32973-12 Coordinating center for collaborative studies on coronary artery surgery

BIOMEDICAL SYSTEMS AUTOMATED, MAGNETIC RECORDING SYSTEMS

** P01HL-12738-10 0128 Physiologic pharmacology and its clinical applications - Recording electrograms from specialized cardiac tissues (human, dogs)
R01HL-16791-03 Computer linkage for a dual camera system

BIOMEDICAL SYSTEMS AUTOMATED, MONITORING DEVICES

SEE ALSO AIR SAMPLING-MONITORING
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATEO, PATIENT MONITORING (MONITORING OEVICES)
SEE ALSO HEART DISORDERS OIAGNOSIS, ELECTROCARDIOGRAPHY MONITOR*

R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and evaluation of left ventricular bypass pumps (human, cattle)
P01HL-13330-08 0062 Mechanical circulatory support - CORE facilities
R01HL-13426-09 Left ventricular bypass for myocardial infarction (cattle, human)
R01HL-13988-07 Elimination of reoperative cardiac pacemaker surgery (dogs)
** R01HL-16292-05 0020 Surgery and non-obstructive coronary insufficiency - Limitation of transthoracic ECG in detecting subendocardial ischemia (dogs)
** R01HL-16292-05 0021 Surgery and non-obstructive coronary insufficiency - Pulsatile assistance on subendocardial perfusion during bypass (dogs)
R01HL-16487-05 Computer controlled two dimensional echocardiography
** P60HL-17269-04 0030 National heart and blood vessel research and demonstration center - Cardiovascular engineering laboratories (human)
P50HL-17682-04 0014 Study of ischemic heart disease - Myocardial ischemia--Instrumentation and technique (dogs, baboons)
P50HL-17682-04 0015 Study of ischemic heart disease - Acute myocardial ischemia and infarction and their reversibility (dogs, baboons)
R01HL-18084-03 Artificial heart and related problems (calves)
R01HL-18947-02 Indirect mean arterial pressure (mammals)
P50HL-19187-02 0009 Pediatric pulmonary SCOR--Hyaline membrane disease - Non-invasive measurement and monitoring of arterial oxygen tension (dogs, sheep)
** R01HL-19678-01 Quantification of intrathoracic fluid by impedance (human, dogs)
R01HL-20354-02 Direct determination of oxygen tension in the clinical environment (human, dogs)
R01HL-20356-02 Development and evaluation of an artificial heart (calves)
R01HL-20632-02 An optimal fetal heart monitor (human)
** R01HL-22274-01 Quantitating in series effects in cardiac arrhythmias (dogs)
R01HL-22604-01 Non-invasive system for arteriosclerosis studies (human)
** R01HL-22854-01 Non-invasive blood pressure measurement (rats)
N01HR-62920-02 Noninvasive diagnosis of pulmonary hypertension (dog, human)

BIOMEDICAL SYSTEMS AUTOMATED, PATIENT MONITORING (MONITORING DEVICES)

SEE ALSO HEART DISORDERS DIAGNOSIS, ELECTROCARDIOGRAPHY MONITOR*
SEE ALSO HOSPITALS, INTENSIVE CARE UNITS

R01HL-09609-11 Lung volume and breathing mechanics during anesthesia (human)
P01HL-11310-12 0058 Mechanisms of cardiovascular disease - Dynamic response to vasodilating agents postoperatively (human)
R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)
R01HL-13974-07 Ventricular premature beats and sudden coronary death (human)
P50HL-14214-07 0036 Newborn lung center for hyaline membrane disease - Core–Biomedical engineering
** P50HL-14218-07 0012 Pulmonary SCOR--Newborn lung center - Longitudinal study of ROS--On-line fetal and neonatal monitoring (human)
** P50HL-14218-07 0013 Pulmonary SCOR–Newborn lung center - Longitudinal study of ROS--Monitoring fetal P02 and PC02 during labor (human)
** P50HL-14218-07 0014 Pulmonary SCOR--Newborn lung center - Longitudinal study of ROS–Monitoring fetal breathing movements (human)
R01HL-16487-05 Computer controlled two dimensional echocardiography
R01HL-16830-05 Non-invasive determination of aortic blood velocities (human)
** R01HL-17604-03 Wearable blood pressure and ECG recording system
P50HL-17646-04 0001 Study of ischemic heart disease - Core clinical investigation unit
P50HL-17646-04 0002 Study of ischemic heart disease - Core data management
** P50HL-17648-04 0033 Study of ischemic heart disease - Oata management--Electrocardiographic analysis system
P50HL-17651-04 0033 Ischemic heart disease specialized center of research - Core facilities–Computer sciences
P50HL-17651-04 0035 Ischemic heart disease specialized center of research - Core facilities–Biomedical engineering, biophysics
** P50HL-17651-04 0047 Ischemic heart disease specialized center of research - Clinical core--Automated arrhythmia monitoring system
P50HL-17665-04 0030 Study of ischemic heart disease - Data management
** P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
P50HL-17667-04 0029 Study of ischemic heart disease - Computer diagnosis of cardiac arrhythmias after open heart surgery (human)
** P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
P50HL-17667-04 0039 Study of ischemic heart disease - Core human investigative laboratories
P50HL-17667-04 0042 Study of ischemic heart disease - Core--Central instrumentation and software
P50HL-17682-04 0008 Study of ischemic heart disease - Clinical core unit
P50HL-17682-04 0009 Study of ischemic heart disease - Computer core unit
R01HL-18710-02 Non-invasive reflection oximetry in peripheral tissue (dogs)
P50HL-19190-02 0001 Pulmonary SCOR--Pathophysiology, management of IRDS - Core--Clinical research center (infants)
** P50HL-19190-02 0009 Pulmonary SCOR--Pathophysiology, management of IRDS - Oeveloping non-invasive neonatal pulmonary monitoring systems (rabbit, human)
R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
R01HL-19844-02 Behavioral control of essential hypertension (human)
R01HL-19973-01 Non-invasive sickled cell monitor development (human)
** R01HL-19993-02 Optical detection of platelet aggregates (human, baboons)
R01HL-20024-03 Therapeutic aerosols--Characteristics and retention (human, dogs)
R01HL-20110-02 Microwave methods of lung water measurement (dogs, phantom models)
** R01HL-20351-02 A self-calibrating in vivo blood gas monitor (dogs, infants)
R01HL-20364-01 Episodic hypertension associated with human behavior (air traffic controllers)
R01HL-22321-01 Cardiac output from the pneumocardiogram (dogs)
** R01HL-22417-01 Microprocessors in medical applications (dogs)
** R01HL-22517-01 Engineering development of an ultrasonic ventilometer (human)
** R01HL-22636-01 Newborn lung function during mechanical ventilation (human)
** R01HL-22815-01 Regional myocardial function after revascularization (dogs)

BIOMEDICAL SYSTEMS AUTOMATED, TELEMEDICINE (GENERAL)

SEE ALSO BIOMEOICAL SYSTEMS AUTOMATED, TELEMETERING AND REMOTE SENSING
SEE ALSO ELECTRONIC STIMULATORS, RADIOFREQUENCY CONTROLLED

R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)
R01HL-16791-03 Computer linkage for a dual camera system
R01HL-18769-04 Studies in survivors of lethal arrhythmias (human)

BIOMEDICAL SYSTEMS AUTOMATED, TELEMETERING AND REMOTE SENSING

M P01HL-13738-08 Cardiac assist devices and artificial hearts
P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
R01HL-13988-07 Elimination of reoperative cardiac pacemaker surgery (dogs)
** P50HL-17682-04 0014 Study of ischemic heart disease - Myocardial ischemia–Instrumentation and technique (dogs, baboons)
P50HL-17682-04 0015 Study of ischemic heart disease - Acute myocardial ischemia and infarction and their reversibility (dogs, baboons)

BIOMETRY

SEE MATHEMATICS, STATISTICS (INCLUOING BIOMETRY)

BIONOMICS

SEE PSYCHOLOGY, BEHAVIOR ANIMAL

BIOPERIODICITY, BIOLOGICAL CLOCKS

SEE ALSO ENVIRONMENT, ADAPTATION, HIBERNATION

** P01HL-08682-15 0006 Regulation of the cardiovascular system - Cardiovascular studies of mammalian hibernators (sciuromorpha)

BIOPERIODICITY, CIRCADIAN RHYTHMS

R01HL-03303-21 Factors regulating electrolyte excretion by the kidney (human, dogs)
R01HL-05360-19 Cholesterol biosynthesis and its control in liver (rats)
R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
R01HL-09911-12 Hormonal and dietary modification of NaCl toxicity (rats) mice)
R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
R01HL-10612-13 0019 Humoral factors in heart failure and hypertension - Pathogenesis of hypertension in the spontaneous hypertensive rat
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
R01HL-13917-20 Secretion and effects of adrenal hormones (human, rabbits, sheep)
P50HL-14141-05 0002 SCOR for atherosclerosis in childhood - Intrauterine environment of proband group (human)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
R01HL-16796-05 Cholesterol regulation by HMG-CoA reductase (rats, human)
R01HL-16918-05 Role of steroids in hypertension (human)
R01HL-17724-03 Oral contraceptives and hypertension (rats)
P01HL-17871-04 0013 Kidney, sodium, cardiac output, arterioles and hypertension - Perfusion pressure and renal sodium excretion (rats)
R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL 18974-03 0006 Experimental neurogenic hypertension program Model of sustained arterial hypertension (cats)
R01HL 19063-03 Cholesterol and lipoprotein metabolism (rat hepatocytes)
R01HL-21779-01 Steroids in adrenal regeneration hypertension (rats)
N01HR 72920-01 Identify and quantify cystic fibrosis factors (human)

BIOPHYSICAL CHEMISTRY (GENERAL)*

SEE ALSO BIOPHYSICS AND BIOPHYSICAL CHEMISTRY STUDY SECTION

P01HL-11310-12 0097 Mechanisms of cardiovascular disease - Structural-functional relationships of neuronal differential alloantigens (mice)
P01HL-11310-12 0098 Mechanisms of cardiovascular disease - Protein chemistry of thy-1 and related synaptosomal proteins (mice)
P01HL-11310-12 0102 Mechanisms of cardiovascular disease - Cardiac membrane and ion mobility (dogs)
** R01HL-13198-21 Blood coagulation--Physico-chemical properties (human, cattle)
** R01HL-22402-01 Heparin-biophysical, chemical and biological aspects (mice, human)
N01HV-52907-04 Interactions of platelets with collagens (human, mammals)

BIOPHYSICS (GENERAL)*

SEE ALSO BIOMEDICAL ENGINEERING
SEE ALSO PHYSICAL PROPERTIES, RHEOLOGY (NOT INCL. BLOOD)

** P01HL-08899-14 0073 Tolerance to respiratory gases in health and disease - Biophysical mechanisms involved in isobaric gas counterdiffusion syndrome
** P01HL-11310-12 0094 Mechanisms of cardiovascular disease - Physics of pulsatile fluid flow (dogs)
P01HL-11310-12 0102 Mechanisms of cardiovascular disease - Cardiac membrane and ion mobility (dogs)
** P01HL-11310-12 9003 Mechanisms of cardiovascular disease - Core support-biophysical sciences
** R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
** P01HL-14414-07 0004 Environmental influences on cardiorespiratory and cellular functions - Role of diffusion in gas exchange (chicken egg)
** R01HL-14495-05 Solid and structural mechanics of lungs (mammals)
P01HL-15832-06 0005 Chemical-structural predispositions to lung injury - Pulmonary structure and stress-strain relationships (rats)
R01HL-17503-03 Vascular bubbles in decompression sickness (minipig, dog, goat)
R01HL-18676-03 Myocardial sarcomere mechanics (rat)
R01HL-18933-03 Energy output and efficiency of left ventricle (dog)
** R01HL-19647-03 Therapeutic aerosols
M R01HL-20079-02 Thromboresistant material
R01HL-20105-02 Deposition of hygroscopic aerosols in bronchi (dogs, human, models)
** R01HL-20749-01 Developing heart--Biophysical aspects (sheep)
** R01HL-20750-01 Studies in sickle cell disease (human)
R01HL-22505-01 Molecular pathology of fibrinogen and factor XIII (human, animals)

BIOPHYSICS, BIOMECHANICS

P01HL-06664-17 0042 Cardiopulmonary function in remediable vascular disease - Physiologic studies on vein grafts (dogs)
P01HL-11310-12 9003 Mechanisms of cardiovascular disease - Core support-biophysical sciences
** P01HL-14388-07 0214 Regulation of the circulation in pathological states - Deformation pattern and stress analysis of the left ventricle
** P01HL-14388-07 0215 Regulation of the circulation in pathological states - Left ventricle model in pathophysiologic states
P01HL-14388-07 0216 Regulation of the circulation in pathological states - Development and regression of ventricular hypertrophy (cats, rats)
P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
** R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
P50HL-19170-02 0006 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanism of overdistension (human, animal)
R01HL-20163-02 Competitive coronary flow in native and graft vessels (dog)
** R01HL-20773-02 Surfactant, pulmonary edema, and lung mechanics (rabbits)
R01HL-21095-02 Enzymes of M tuberculosis and obstructive lung disease (human, rodents)
R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)
R01HL-23240-01 Pulmonary vascular muscle metabolism and contractility (rats, cattle)

BIOPHYSICS AND BIOPHYSICAL CHEMISTRY STUDY SECTION

** R01HL-01662-25 Equilibria in the fibrinogen fibrin conversion (human, cattle)
** R01HL-05556-19 Proteins, lipoproteins-Structure and reactivity (chicken, human, diving mammals)
** R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
** R01HL-07451-16 Hemoglobin S gelation and hemoglobin allostery (human)
** R01HL-08893-14 Structure and function of membrane proteins (human)
** R01HL-09544-12 Biochemistry of contractile proteins (animals)
** R01HL-09739-13 Biophysical studies of proteins (human)
** R01HL-10383-12 Physical chemical studies of hemoglobins and erythrocyte (human)
** R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)
** R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
** R01HL-12256-15 Polymerization of sickle-cell hemoglobin (human)
** R01HL-12395-10 X-ray study of oxygen-carrying cobalt complexes
** R01HL-12524-10 Reaction of hemoglobin with ligands and antibodies (human, carp)
** R01HL-12526-09 Raman spectra of heme proteins and related molecules
** R01HL-12528-10 NMR relaxation of liquid crystal systems
** R01HL-12760-09 Surface studies of membrane lipids and proteins
** R01HL-13157-09 Molecular oxygen carriers--Synthesis, structure, bonding
** R01HL-13164-07 Interaction of the alpha and beta chains of human hemoglobin
** R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
** R01HL-13531-06 Coboglobins--Cobalt substituted myo- and hemoglobins
** R01HL-13652-08 Metal sites in metalloproteins (mushroom)
** R01HL-13909-27 Physiochemistry and immunology of macromolecules
** R01HL-13989-05 Role of water in respiratory protein structure
** R01HL-14020-06 Characterization of myosin from blood platelets (rabbit)
** R01HL-14111-07 Cholesteryl esters in membranes and atherosclerosis (human, swine)
** R01HL-14271-07 Physico-chemical properties of tracheal mucus (dogs, frogs)
** R01HL-14508-10 Structure and function of respiratory hemoproteins
** R01HL-14509-07 Hypertension--Chemistry and biophysics of angiotensin
** R01HL-14680-07 Specific enrichment of myoglobins for carbon 13 NMR (catacea)
** R01HL-14938-06 Contractile proteins of heart muscle (dogs, rabbits)
** R01HL-15155-05 Rheology of pulmonary secretions (dogs)
** R01HL-15284-06 Hemoglobin and myoglobin kinetic studies (human, animals)
** R01HL-15293-07 Sickle cell hemoglobin--Interactions and aggregation (human)
** R01HL-15378-06 Ultrastructure of antihypertensive prostaglandins
** R01HL-15391-07 EPR studies on rotational motion of myosin and actin
** R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)
** R01HL-15627-06 X-ray and chemical studies of metalloporphyrins
** R01HL-15648-06 Lipid metabolism--Transport by lateral diffusion (human, rabbit, cattle)
** R01HL-15679-06 Heart and smooth muscle contractile protein (swine, cattle, rabbits, chickens)
** R01HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin
** R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
** R01HL-16087-05 Structural and dynamic study of model heme complexes (yeast)
** R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
** R01HL-16101-05 Protein-lipid interaction (bacteria, models)
** R01HL-16166-05 Structure of alpha-1-antitrypsin in relation to emphysema (human)
** R01HL-16474-05 Antibiotic-ion interactions (model membranes)
** R01HL-16601-05 Structure and function of blood proteins (human, cattle)
** R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions
** R01HL-16678-03 Fluorescent probe studies of heart muscle proteins (rabbit, dog)
** R01HL-16860-05 Mossbauer studies of respiratory hemoproteins
** R01HL-16891-05 The folding of hemoglobin
** R01HL-16927-05 Structure and function of normal and abnormal hemoglobin (human)
** R01HL-17411-04 Molecular studies of red blood cell spectrin (human)
** R01HL-17494-07 Mechanism of ligand binding to hemoglobin (human)
** R01HL-17559-03 Structural elucidation of heart cytochrome-C oxidase
** R01HL-17567-03 Lipoprotein cytolytic toxin interaction (Staphylococcus aureus, mammals, human)
** R01HL-17571-03 Study of membrane permeability by NMR relaxation (human)
** R01HL-17576-04 Role of sphingomyelin in biomembranes and bilayers (rats, other mammals)
** R01HL-17826-04 Oxygen delivery to tissue (rat, dog)
** R01HL-17828-04 Kinetic studies of hemerythrin reactions (marine worms)
** R01HL-17878-04 Structural studies of the human erythrocyte membrane
** R01HL-18004-02 Transport through arterial wall--Biophysical aspects (rabbits)
** R01HL-18048-04 Dynamics of artificial and biological membranes (human)
** R01HL-18226-04 Mechanism of oxygen supply to tissue (human, animals)
** R01HL-18255-04 Lipid-protein interactions and calcium transport (models)
** R01HL-18256-01 Optical properties of platelets and erythrocytes (rabbits, dogs, human)
** R01HL-18272-03 Heart adenyl cyclase complex (beef heart)
** R01HL-18304-03 FT-infrared spectroscopy of heart muscle energetics (cattle)
** R01HL-18309-04 Oxygen transport--Hemoglobins with modified hemes (horse)
** R01HL-18441-03 Guidelines for polymers acting as elastin substitutes
** R01HL-18516-03 Atherosclerosis and the arterial contractile proteins (pigs, rabbits)
** R01HL-18533-03 Microcrystalline and crystalline fibrinogen (cattle, bacteria)
** R01HL-18612-03 Thin filament control of heart contraction (cattle)
** R01HL-18619-03 Transferrin iron binding and transport properties (chicken, rabbit, human)
** R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
** R01HL-18634-03 Quarternary structure of erythro and chlorocruorins (invertebrates)
** R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
** R01HL-18725-03 Light-scattering studies of the sickling process (human)
** R01HL-18737-03 Human erythrocyte membrane structure
** R01HL-18746-02 Chemical studies on proteolipid apoproteins (cattle)
** R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
** R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)
** R01HL-18905-04 Acquisition of native conformation of proteins (human, cattle)
** R01HL-19065-02 Molecular oxygen in biological fluids
** R01HL-19095-03 Laser spectroscopy of lipoproteins (human)
** R01HL-19392-03 Spectroscopic studies of respiratory metalloproteins
** R01HL-19456-03 Immunoglobulins associated with serum hyperviscosity (human)
** R01HL-19459-03 Dynamics of atherogenesis and lipoprotein formation (human, rabbit)
** R01HL-19481-03 High-field NMR studies of respiratory proteins (human, horse, fish, microbes)
** R01HL-19488-03 Picosecond laser studies of heme-proteins
** R01HL-19491-03 Mechanism of iron storage and mobilization by ferritin (horse)
** R01HL-19973-01 Non-invasive sickled cell monitor development (human)
** R01HL-19982-02 Blood coagulation--Protein-metal ion-lipid interactions
** R01HL-20241-02 Shear and area moduli for abnormal red cell membranes (human)
** R01HL-20319-02 Assembly, structure and interactions of fibrin (human)
** R01HL-20350-02 Crystal structure of lipids--Cholesterol
** R01HL-20464-01 Regulation of cardiac and skeletal muscle contraction (mammals)
** R01HL-20882-02 Interactions of plasma lipoproteins with erythrocytes (Rhesus, human)
** R01HL-21170-01 Molecular structure of human serum transferrin
** R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin
** R01HL-21757-01 Elastin structure--DNA breathing--Hemoglobin S gelation
** R01HL-21791-01 Precipitation of proteins with poly (ethylene glycol) (human)
** R01HL-22050-01 Organization of succinic oxidase in heart
** R01HL-22052-01 Organization of free cholesterol in serum lipoproteins (human, dogs)
** R01HL-22081-20 The mechanism of collagen formation (human, cattle)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

** R01HL-22194-02 Allosteric function of platelet contractile proteins (human)
** R01HL-22208-02 Elastin structure, fibrogenesis and disease (chickens, rabbits)
** R01HL-22270-01 Platelet glycoprotein (human)
** R01HL-22325-01 Thermodynamics in respiratory protein binding (human, trout)
** R01HL-22432-01 Molecular studies of human erythrocyte membranes
** R01HL-22461-01 Cardiac tropomyosin and tropomyosin-action interactions (rabbit)
** R01HL-22570-01 Interactions of sterols in biological systems (human)
** R01HL-22654-01 Molecular structure of sickle cell fibers (human)
** R01HL-22682-01 Structure and function of high density lipoprotein (human, rat)
** R01HL-22771-01 Thrombogenic phospholipid surfaces (cattle)
** R01HL-22985-01 Properties and assembly of Z-disk proteins (human, other species)
** R01HL-23003-01 Bulk-surface distribution of cholesteryl esters
** R01HL-23267-01 Rheology and kinetics of hemoglobin S gelation (human)
** R01HL-23392-01 Membrane binding and transport of calcium and potassium ionophores
** R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)

BIOPSY
SEE DIAGNOSTIC TESTS, BIOPSY*

BIOSTATISTICS
SEE MATHEMATICS, STATISTICS (INCLUDING BIOMETRY)

BIOSYNTHESIS OF CARBOHYDRATES
SEE CARBOHYDRATES BIOSYNTHESIS

BIOSYNTHESIS OF FATTY ACIDS
SEE FATTY ACIDS BIOSYNTHESIS

BIOSYNTHESIS OF HEMOPROTEINS
SEE HEMOPROTEINS BIOSYNTHESIS

BIOSYNTHESIS OF HORMONES
SEE ENDOCRINOLOGY, HORMONES BIOSYNTHESIS

BIOSYNTHESIS OF LIPIDS
SEE LIPIDS METABOLISM, LIPOGENESIS

BIOSYNTHESIS OF MEMBRANES
SEE MEMBRANE SYNTHESIS AND RECONSTITUTION

BIOSYNTHESIS OF NEUROTRANSMITTERS
SEE NEUROTRANSMITTERS BIOSYNTHESIS

BIOSYNTHESIS OF NUCLEIC ACIDS
SEE NUCLEIC ACIDS SYNTHESIS

BIOSYNTHESIS OF PEPTIDE-POLYPEPTIDE HORMONES
SEE ENDOCRINOLOGY, HORMONES BIOSYNTHESIS, PEPTIDE-POLYPEPTIDE HORMONES BIOSYNTHESIS

BIOSYNTHESIS OF PROTEINS
SEE PROTEINS BIOSYNTHESIS

BIOSYNTHESIS OF STEROIDS
SEE STEROIDOGENESIS

BIOSYNTHESIS OF VITAMINS
SEE VITAMINS BIOSYNTHESIS

BIOTIN
SEE VITAMIN B, BIOTIN

BIOTRANSFORMATION (METABOLISM)
SEE METABOLISM, BIOTRANSFORMATION

BIPHENYLS, HALOGENATED
SEE HALOBENZENES, HALOGENATED BIPHENYLS-TRIPHENYLS AND ANALOGS

BIRDS*
SEE ALSO BODY FLUID BALANCE, IONIC, SALT GLAND
** P01HL-07896-15 0033 Environmental biomedical research program - Breathing mechanism in birds

BIRDS, CHICK EMBRYO*
R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)

BIRDS, PIGEONS*
P50HL-14164-07 0025 A/S SCOR--Comparative and experimental atherosclerosis - Animal care resource and laboratory animal medicine unit (monkeys, pigeons)
P50HL-14164-07 0029 A/S SCOR--Comparative and experimental atherosclerosis - Development of pigeon substrains
** P50HL-15389-07 0014 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of pigeon antigens

BIRDS, QUAIL*
R01HL-15840-02 Sugar-induced heart lesions and vitamin K deficiency (birds, mammals subhuman)

BIREFRINGENCE
SEE OPTICS, BIREFRINGENCE*

BIRTH
SEE PREGNANCY, BIRTH

BIRTH CONTROL
SEE FAMILY PLANNING
SEE FERTILITY
SEE PREGNANCY

BIRTH WEIGHT (ANIMALS)
SEE AGE (ANIMAL), INFANTS, BIRTH WEIGHT

BISBENZYLISOQUINOLINES
SEE QUINOLINES, BISBENZYLISOQUINOLINES

BISHYDROXYCOUMARIN
SEE BENZO-ALPHA-PYRONES, BISHYDROXYCOUMARIN

BISULFITES
SEE SULFITES, BISULFITES

BLACK AMERICANS
SEE SOCIAL GROUPS, ETHNIC, AMERICANS, BLACK AMERICANS

BLACK LIPID BILAYER MEMBRANE
SEE BIOLOGICAL TRANSPORT, MEMBRANE MODELS

BLACK LUNG
SEE RESPIRATORY DISORDERS, PNEUMOCONIOSIS

BLACK RACE
SEE SOCIAL GROUPS, RACIAL STOCKS, BLACK RACE

BLASTOCYST
SEE PREGNANCY, EMBRYO-FETUS

BLEOMYCIN
SEE ANTIBIOTICS, BLEOMYCIN

BLOCK ANESTHESIA
SEE SENSORY DEPRESSION, ANESTHESIA CONDUCTION

BLOCKING ANTIBODIES
SEE IMMUNOLOGY, ANTIBODIES, BLOCKING ANTIBODIES

BLOOD
SEE BLOOD AND RE SYSTEM, BLOOD*

BLOOD AND RE DISORDERS, ANEMIA
SEE ALSO IRON CHELATION THERAPY
P60HL-15157-07 0001 Comprehensive center for sickle cell disease - Screening program (human)
P60HL-15999-05 0019 Miami comprehensive sickle cell center - Fetal-adult hemoglobin switch (mouse, monkey)
R01HL-16022-05 Determinants of the ventilatory response to hypoxia (goats, cats)
** R01HL-16119-05 Spleen and marrow allografts in hereditary anemia (mice)
R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)
P01HL-17731-04 0010 Physiological basis of pulmonary disease - Gas exchange kinetics (dogs)
R01HL-18328-03 Hemoglobin function and tissue oxygenation (human, dogs)
R01HL-19270-03 Effects of erythropoiesis on platelets and hemostasis (rats)
R01HL-22650-01 Regulatory mechanisms of erythropoietin production (human, rats, mice)

BLOOD AND RE DISORDERS, ANEMIA APLASTIC
N01HB-62963-03 International bone marrow transplant registry
N01HB-62964-03 International bone marrow transplant registry
R01HL-06242-18 Kinetic studies of blood (human)
R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)

BLOOD AND RE DISORDERS, ANEMIA APLASTIC CONGENITAL
R01HL-20899-02 Cellular mechanisms of hemoglobin F regulation (human)

BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC
SEE ALSO BLOOD GROUP INCOMPATIBILITY
** R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
R01HL-12944-09 Enzymatic and biochemical studies on blood cells (human)
R01HL-14131-18 Abnormal hemoglobin syndromes (human)
R01HL-15125-07 Molecular pathology of genetic disorders in man
P60HL-16005-05 0022 Comprehensive sickle cell center - Regulation of erythropoiesis in patients with sickle cell anemia
R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
P01HL-16833-04 0011 Hemoglobin and red cell system in hemoglobinopathies - Relationship between hemoglobin and RBC membrane in sickling cells (human, rats)
R01HL-18163-04 Red cell membrane effects due to oxidizing agents
** P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
R01HL-19532-01 Oxygen toxicity in the red cell (human)
P60HL-20985-01 0007 Northern California sickle cell center - Immunohematologic abnormalities in sickle cell anemia (human)
** R01HL-21159-02 Pathophysiological effects of hypoxia (rats)
R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)

BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC AUTOIMMUNE
R01HL-10036-13 Biology of red cell antigen-antibody reaction (human)
R01HL-12994-09 The Rh complex of red cells (human)

BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC CONGENITAL (GENERAL)
SEE ALSO HEMOPROTEINS, HEMOGLOBINOPATHIES
SEE ALSO METABOLIC DISORDERS INBORN, GLUCOSE-6-PHOSPHATE DEHYDROGENASE DEFICIENCY
SEE ALSO METABOLIC DISORDERS INBORN, PHOSPHOGLYCERATE KINASE DEFICIENCY
SEE ALSO METABOLIC DISORDERS INBORN, PYRUVATE KINASE DEFICIENCY
R01HL-07449-17 Formation and survival of red blood cells (human)
R01HL-12944-09 Enzymatic and biochemical studies on blood cells (human)
** R01HL-12972-09 Glutathione deficiency in red cells (sheep, dogs)
** R01HL-19933-02 Membrane and red cell dysfunction in hemolytic anemia (human)

BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC CONGENITAL, ELLIPTOCYTOSIS HEREDITARY
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
R01HL-20241-02 Shear and area moduli for abnormal red cell membranes (human)

BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC CONGENITAL, NONSPHEROCYTIC
SEE ALSO BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC CONGENITAL, ELLIPTOCYTOSIS HEREDITARY
R01HL-07449-17 Formation and survival of red blood cells (human)

BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC CONGENITAL, SPHEROCYTOSIS HEREDITARY (GENERAL)
R01HL-07449-17 Formation and survival of red blood cells (human)
R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
P01HL-16833-04 0011 Hemoglobin and red cell system in hemoglobinopathies - Relationship between hemoglobin and RBC membrane in sickling cells (human, rats)
P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
P01HL-18208-04 0007 Center for the study of blood cell rheology - RBC membrane protein (human)
R01HL-18551-03 Spectrin, actin, lipid and red cell membrane structure
R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
R01HL-20241-02 Shear and area moduli for abnormal red cell membranes (human)
R01HL-21404-01 Raman spectroscopy of erythrocyte and model membranes (human)
** R01HL-22432-01 Molecular studies of human erythrocyte membranes

BLOOD AND RE DISORDERS, ANEMIA HYPOCHROMIC MICROCYTIC
SEE ALSO BLOOD AND RE DISORDERS, ANEMIA SIDEROBLASTIC
SEE ALSO HEMOPROTEINS, HEMOGLOBINOPATHIES, THALASSEMIA
R01HL-06242-18 Kinetic studies of blood (human)
R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
P60HL-16005-05 0022 Comprehensive sickle cell center - Regulation of erythropoiesis in patients with sickle cell anemia
R01HL-16675-05 Human urinary erythropoietin collection
R01HL-18163-04 Red cell membrane effects due to oxidizing agents

BLOOD AND RE DISORDERS, ANEMIA MEGALOBLASTIC
P60HL-16005-05 0022 Comprehensive sickle cell center - Regulation of erythropoiesis in patients with sickle cell anemia

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

BLOOD AND RE DISORDERS, ANEMIA SIDEROBLASTIC

R01HL-20000-03 Iron overload in homozygous beta thalassemia (human)

BLOOD AND RE DISORDERS, BLOOD DISORDERS (GENERAL)

SEE ALSO BLOOD AND RE DISORDERS, ANEMIA
SEE ALSO BLOOD AND RE DISORDERS, BONE MARROW
SEE ALSO BLOOD AND RE DISORDERS, HEMORRHAGIC DISORDERS
SEE ALSO BLOOD AND RE DISORDERS, LEUKOCYTE DISORDERS
SEE ALSO BLOOD COAGULATION DISORDERS
SEE ALSO BLOOD GROUP INCOMPATIBILITY
SEE ALSO BLOOD PLATELETS DISORDERS
SEE ALSO BLOOD PROTEINS DISORDERS
SEE ALSO HEMOPROTEINS, HEMOGLOBINOPATHIES
SEE ALSO HEMOPROTEINS, HEMOGLOBINURIA, PAROXYSMAL NOCTURNAL
SEE ALSO HEMOPROTEINS, METHEMOGLOBINEMIA
SEE ALSO KIDNEY DISORDERS, UREMIA

** R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
** R01HL-12944-09 Enzymatic and biochemical studies on blood cells (human)
R01HL-15722-06 Hemorrheology studies related to in vivo blood flow (human)
M P01HL-16833-04 Hemoglobin and red cell system in hemoglobinopathies
M P01HL-16851-04 Human red cell membrane in health and disease
** P01HL-16851-04 0001 Human red cell membrane in health and disease - Rheology of erythrocyte membrane (human, amphiuma)
** P01HL-16851-04 0009 Human red cell membrane in health and disease - Blood cell properties in circulatory regulation (dogs, rabbits)
P01HL-16851-04 0010 Human red cell membrane in health and disease - Core facility-Hematology clinic
** R01HL-17821-03 Cavitation phenomena near prosthetic devices
R01HL-17881-15 Biosynthesis and degradation of blood group substances (human, animals)
** R01HL-18163-04 Red cell membrane effects due to oxidizing agents
M P01HL-18208-04 Center for the study of blood cell rheology
** R01HL-19163-02 Piscine erythrocytic necrosis in the Atlantic cod
** R01HL-19164-03 Piscine erythrocytic necrosis in the Atlantic cod
** R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
R01HL-20303-03 Cholesterol distribution in erythrocyte membrane (human, animals)
** R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease

BLOOD AND RE DISORDERS, BONE MARROW

SEE ALSO BLOOD AND RE DISORDERS, ANEMIA APLASTIC
R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)

BLOOD AND RE DISORDERS, BONE MARROW, POLYCYTHEMIA

P01HL-06285-18 0133 Cardiovascular-respiratory physiology and biochemistry - Decreased uterine blood flow and fetal development (lambs)
P01HL-06285-18 0136 Cardiovascular-respiratory physiology and biochemistry - Fetal microcirculation in utero (rabbits, lambs)
** P01HL-11310-12 0095 Mechanisms of cardiovascular disease - Blood and transfusion disorders (human, rats, monkeys)
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
** P01HL-14985-07 0013 Adaptation to hypoxia - Chronic mountain sickness (men)
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-21159-02 Pathophysiological effects of hypoxia (rats)
R01HL-22650-01 Regulatory mechanisms of erythropoietin production (human, rats, mice)

BLOOD AND RE DISORDERS, HEMORRHAGIC DISORDERS

SEE ALSO BLOOD COAGULATION DISORDERS
SEE ALSO BLOOD PLATELETS DISORDERS
SEE ALSO CARDIOVASCULAR DISORDERS, HEMORRHAGE
SEE ALSO NASAL DISORDERS, EPISTAXIS

** R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
** R01HL-01661-27 Hemostatic mechanisms (human)
R01HL-02212-23 Coagulation of blood (human)
** R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
** R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
** R01HL-13629-08 Hemorrhagic diseases (human)
R01HL-14595-07 Primary disorders of platelet function (human, rats)
R01HL-15335-06 The nature of the collagen platelet interaction (animals)
R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)
R01HL-21403-02 Blood clotting kinetics studied by radioimmunoassay (human)

BLOOD AND RE DISORDERS, LEUKOCYTE DISORDERS

SEE ALSO IMMUNITY, IMMUNOLOGICAL UNRESPONSIVENESS
SEE ALSO METABOLIC DISORDERS INBORN, ANGIONEUROTIC EDEMA (HEREDITARY)
SEE ALSO METABOLIC DISORDERS INBORN, CHEDIAK-HIGASHI SYNDROME

R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions
R01HL-17437-03 'Perfusion lung'--Role of traumatized leukocytes (dogs, human)
R01HL-20807-02 Detection of familial hypercholesterolemia (human)

BLOOD AND RE DISORDERS, LEUKOCYTE DISORDERS, AGRANULOCYTOSIS

N01HB-62970-02 Collection, function and transfusion of granulocytes
N01HB-62973-05 Collection, function and transfusion of granulocytes
** R01HL-14739-06 The role of leukocytes in thrombotic disease (human, dogs)
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)

BLOOD AND RE DISORDERS, LEUKOCYTE DISORDERS, LEUKOCYTOSIS

R01HL-15685-05 Hemopoietic regulators produced in cell culture (human, animals)
P01HL-18646-03 0006 Studies basic to heart transplantation - Reduction or elimination of existing presensitization (human, animals)

BLOOD AND RE DISORDERS, LEUKOCYTE DISORDERS, LEUKOPENIA

SEE ALSO BLOOD AND RE DISORDERS, LEUKOCYTE DISORDERS, AGRANULOCYTOSIS

** R01HL-06242-18 Kinetic studies of blood (human)
R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)
P60HL-17265-04 0009 Community blood resource center support - Research--Developing granulocyte transfusion therapy (human, rabbit)
R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)

BLOOD AND RE DISORDERS, LEUKOCYTE DISORDERS, PHAGOCYTE DYSFUNCTION (GENERAL)

** P60HL-16005-05 0020 Comprehensive sickle cell center - Studies of the immunologic defect in sickle cell anemia (human)
R23HL-19584-01 Alveolar macrophage responses to toxic particle exposure (guinea pigs, human)

BLOOD AND RE DISORDERS, MAST CELL HYPERPLASIA

** P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)

BLOOD AND RE DISORDERS, SPLENIC DISORDERS

R01HL-19430-03 Congenital heart malformations and situs inversus (mice)
R01HL-20086-02 Circulatory control of splenic function (rats)

BLOOD AND RE DISORDERS, SPLENIC DISORDERS, SPLENOMEGALY

** R01HL-18997-02 Ischemic therapy in experimental hypersplenism (rats, dogs)
R01HL-20086-02 Circulatory control of splenic function (rats)

BLOOD AND RE DISORDERS CHEMOTHERAPY

SEE ALSO BLOOD AND RE SYSTEM PHARMACOLOGY
SEE ALSO BLOOD COAGULATION, ANTICOAGULANTS
SEE ALSO BLOOD COAGULATION, FIBRINOLYTIC AGENTS
SEE ALSO BLOOD COAGULATION, HEMOSTATICS
SEE ALSO HEMOPROTEINS, HEMOGLOBINOPATHIES, SICKLING INHIBITORS
SEE ALSO IRON CHELATION THERAPY

N01HB-72916-02 Crisis and pain symptom prophylaxis by oral zinc therapy (human)
R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
R01HL-02799-22 Abnormal hemoglobins (human)
P01HL-07896-15 0057 Environmental biomedical research program - Effects of dipyridamole and aspirin on decompression thrombocytopenia (human)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
P01HL-11414-11 0004 Thrombosis and atherosclerosis program - Platelet function and nonthrombogenic surfaces (human)
P01HL-11414-11 0033 Thrombosis and atherosclerosis program Human coumarin-induced prothrombin
R01HL-12972-09 Glutathione deficiency in red cells (sheep, dogs)
P01HL-13738-08 0003 Cardiac assist devices and artificial hearts Pathophysiological effects of the artificial heart (calves)
** R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
P60HL-15158-07 0011 Comprehensive sickle cell center Clinical services-Adult patients
P60HL-15169-05 0018 Support for center for sickle cell disease Studies on sickle cell disease (human, rats, dogs)
P60HL-15170-05 0001 Support for center for sickle cell anemia Adult clinical services
P01HL-15486-06 0006 Studies on thrombosis Clinical investigation unit
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
** P01HL-15596-05 0001 Coagulation, fibrinolysis, hemostasis and hepatitis - Defibrination (human)
M P60HL-15999-05 Miami comprehensive sickle cell center
** P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense-Cellular and humoral (human, guinea pig, rabbits)
R01HL-16375-04 Investigation of hemoglobin S properties (human)
M P01HL-17430-05 Control of coagulation
** P01HL-17430-05 0001 Control of coagulation - Porcine von Willebrand's disease
R01HL-18012-04 Cellular defects in nocturnal hemoglobinuria (human)
M P01HL-18576-03 Thrombosis research program project
P01HL-18576-03 0013 Thrombosis research program project - Early warning and monitoring test systems in thrombotic disease (human)
R01HL-18815-03 Surgical vascular disorders (human, dogs)
** R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)
R01HL-20920-01 Control of hemoglobin synthesis (baboon)
R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)

BLOOD AND RE DISORDERS CONGENITAL (HEREDITARY)

SEE ALSO BLOOD AND RE DISORDERS, ANEMIA APLASTIC CONGENITAL
SEE ALSO BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC CONGENITAL (GENERAL)
SEE ALSO BLOOD COAGULATION DISORDERS
SEE ALSO BLOOD PROTEINS DISORDERS CONGENITAL
SEE ALSO HEMOPROTEINS, HEMOGLOBINOPATHIES
SEE ALSO IMMUNOPATHOLOGY, IMMUNOLOGIC DEFICIENCY DISORDERS

R01HL-01648-31 Blood coagulation and hemophilia (dogs, swine)
R01HL-02212-23 Coagulation of blood (human)
R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
R01HL-04366-19 Plasminogen--Activation and structure-function relations (mammals, birds)
** R01HL-05168-19 Inhomogeneity of hemoglobin types (human)
** R01HL-05351-18 Blood group antigens and antibodies (human, rabbits, sheep)
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
R01HL-09163-13 Control mechanisms in hemostasis (human)
** R01HL-12944-09 Enzymatic and biochemical studies on blood cells (human)
** R01HL-13585-05 Heterogeneity of NADH methemoglobin reductase (human)
R01HL-14131-18 Abnormal hemoglobin syndromes (human)
R01HL-14595-07 Primary disorders of platelet function (human, rats)
** R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)
R01HL-16119-05 Spleen and marrow allografts in hereditary anemia (mice)
R01HL-17752-03 Purified human clotting factor IX--Immunologic studies (human)
** R01HL-18507-03 Clinical studies of Fletcher factor (human)
R01HL-18586-03 Role of platelet lipids in hemostasis and thrombosis (human)
R01HL-19272-03 Studies on the Passovoy factor (human)
R01HL-19646-03 An immunologic study of hemoglobin variation in man
R01HL-20751-01 High speed liquid chromatography of hemoglobins (human)
R01HL-20925-01 The acetylation of fetal hemoglobin (human)
P01HL-21016-02 0012 Sickle cell anemia and other hemoglobinopathies - Stimulation of Hb F synthesis in a permanent cell line
R23HL-21428-02 Expression of human globin in thalassemia (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-21487-01 Molecular characterization of Glanzmann's thrombasthenia (human)
** R01HL-21975-01 Studies on normal and abnormal factor IX (human, dogs, cows)
R23HL-22621-01 Blood cell-mediated pulmonary (human)

BLOOD AND RE DISORDERS DIAGNOSIS (INCL EXAMS)*

SEE ALSO BLOOD COAGULATION TESTS*
SEE ALSO BLOOD (HEMATOLOGIC) TESTS*
R01HL-02212-23 Coagulation of blood (human)
** P60HL-15157-07 0001 Comprehensive center for sickle cell disease - Screening program (human)
** P60HL-15158-07 0004 Comprehensive sickle cell center - Expression of abnormal hemoglobin synthesis in the neonate and young child
P60HL-15160-07 0009 Center for sickle cell disease - Natural history of sickle cell disease (human)
** P60HL-15160-07 0012 Center for sickle cell disease - Core laboratories
** P60HL-15160-07 0013 Center for sickle cell disease - Immunochemical diagnosis of hemoglobinopathies (infants)
** P60HL-15160-07 0017 Center for sickle cell disease - Demonstration--Education, screening, counseling, patient care
** P60HL-15162-07 0011 Comprehensive sickle cell center - Core program--Genetic counseling and diagnostic screening
** P60HL-15162-07 0018 Comprehensive sickle cell center - Biochemical and genetic studies of sickle cell anemia (human)
** P60HL-15168-07 0001 Comprehensive sickle cell disease center - Screening program (human)
P60HL-15168-07 0010 Comprehensive sickle cell disease center - Sickle cell center project (children)
M P01HL-15486-06 Studies on thrombosis
P01HL-15486-06 0001 Studies on thrombosis - Studies on chemistry of fibrinogen (human, dogs)
P01HL-15486-06 0002 Studies on thrombosis - Characterization of antisera to fibrinopeptide B (human, rabbits)
** P01HL-15596-05 0001 Coagulation, fibrinolysis, hemostasis and hepatitis - Defibrination (human)
R01HL-15722-06 Hemorrheology studies related to in vivo blood flow (human)
M P60HL-15999-05 Miami comprehensive sickle cell center
** P60HL-15999-05 0004 Miami comprehensive sickle cell center - Education, screening and counseling
** P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)
** P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling
** P60HL-16008-06 0020 Wayne State University comprehensive sickle cell center - Genetic and physiological studies of sickle cell anemia (human)
** P01HL-16387-04 0005 The blood vessel and thrombogenesis - Fluid engineering considerations in thrombogenesis
P01HL-17419-04 0001 Studies on mechanisms of hemostasis - Structure and metabolism of fibrinogen (human)
M P01HL-17430-05 Control of coagulation
** P01HL-17430-05 0001 Control of coagulation - Porcine von Willebrand's disease
** P01HL-17430-05 0005 Control of coagulation - The activation of prothrombin (human, cattle, dogs)
** P01HL-17430-05 0006 Control of coagulation - Activation fragments of prothrombin in vitro and in vivo (human, dogs, cattle)
** R01HL-17769-03 New methods of studying blood coagulation kinetics
R01HL-18012-04 Cellular defects in nocturnal hemoglobinuria (human)
M P01HL-18576-03 Thrombosis research program project
** P01HL-18576-03 0013 Thrombosis research program project - Early warning and monitoring test systems in thrombotic disease (human)
R01HL-18725-03 Light-scattering studies of the sickling process (human)
R01HL-20856-02 Platelet transfusions--Usage and complications (human)
M P60HL-20985-01 Northern California sickle cell center
** P60HL-20985-01 0009 Northern California sickle cell center - Patient services (children, adults)
** P60HL-20985-01 0010 Northern California sickle cell center - Prenatal diagnosis of sickle cell anemia
P01HL-21016-02 0017 Sickle cell anemia and other hemoglobinopathies - The hereditary clinic core
** P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)
P60HL-23282-01 9001 Comprehensive hospital/community sickle cell center - Core--Institutionalization of education, screening and counseling

BLOOD AND RE DRUGS (GENERAL)

SEE ALSO BLOOD AND RE SYSTEM, HEMATOPOIETIC FACTORS
SEE ALSO BLOOD COAGULATION, ANTICOAGULANTS
SEE ALSO BLOOD COAGULATION, ANTIFIBRINOLYTIC AGENTS
SEE ALSO BLOOD COAGULATION, FIBRINOLYTIC AGENTS
SEE ALSO BLOOD COAGULATION, HEMOSTATICS
SEE ALSO BLOOD SUBSTITUTES
SEE ALSO HEMOPROTEINS, HEMOGLOBINOPATHIES, SICKLING INHIBITORS
R01HL-22338-01 Platelet adhesion and aggregation in a flow chamber (human)

BLOOD AND RE SYSTEM, BLOOD*

SEE ALSO BLOOD AND RE SYSTEM, HEMATOLOGY
SEE ALSO BLOOD AND RE SYSTEM, HEMATOPOIESIS
SEE ALSO BLOOD AND RE SYSTEM, HEMATOPOIETIC TISSUE
SEE ALSO BLOOD AND RE SYSTEM, IMMUNOHEMATOLOGY (GENERAL)
SEE ALSO BLOOD CELLS
SEE ALSO BLOOD COAGULATION
SEE ALSO BLOOD GROUPS
SEE ALSO BLOOD PRESERVATION
SEE ALSO BLOOD PROTEINS
SEE ALSO BLOOD TOXICOLOGY
SEE ALSO BLOOD TRANSFUSION
SEE ALSO CARDIOVASCULAR FUNCTION, BLOOD CIRCULATION DYNAMICS (GENERAL)
** P01HL-03174-23 0010 Mechanisms of acute vascular reaction to injury - Search for mutagens in the human blood (bacteria, animals)
** P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
** P01HL-15596-05 0016 Coagulation, fibrinolysis, hemostasis and hepatitis - Hepatitis-B antigen in whole blood, plasma and plasma fractions (human, monkeys)
** R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)

BLOOD AND RE SYSTEM, BLOOD, PLASMA

P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
P01HL-06835-17 0046 Cardiovascular disease - Renin activity during salt depletion in essential hypertension (human)
R01HL-13198-21 Blood coagulation--Physico-chemical properties (human, cattle)
P01HL-13262-07 0018 Arterial wall in atherosclerosis - Vasoactive factors of human plasma
P60HL-15160-07 0014 Center for sickle cell disease - Replacement therapy of opsonin deficiency in sickle cell anemia (children)
** P01HL-15596-05 0016 Coagulation, fibrinolysis, hemostasis and hepatitis - Hepatitis-B antigen in whole blood, plasma and plasma fractions (human, monkeys)
R01HL-16346-09 Enzyme assay for blood clotting (human)
R01HL-16445-05 Regulation of plasma protein biosynthesis (rats, rabbits)
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
R01HL-17847-04 Cardiovascular and renal functions of marmots
P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
R01HL-19320-03 Angiotensin neuropharmacology--Relationship to sodium
R01HL-20218-02 Fibrinogen catabolism and intravascular coagulation (human)
R01HL-20301-02 Genetics of glycosyltransferases in human blood
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
R01HL-21094-01 Arterial baroreceptors and renal function (dogs)
R01HL-21139-02 Molecular biology of factor XIII (human)
R01HL-21239-02 Isolation and mechanism of action of thromboxane A2 (human, rabbits)
R01HL-21540-02 Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs)
R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)
R01HL-22051-01 Role of angiotensin II in vasopressin release (human)
R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)
R01HL-22627-01 An inhibitor of platelet adhesion to artificial organs (human)
R01HL-22996-01 Venom proteases--Action on plasma protease inhibitors (human)
R01HL-23726-01 Treatment of ventricular arrhythmias with propranolol (human)

BLOOD AND RE SYSTEM, BLOOD, SERUM

SEE ALSO IMMUNOLOGY, ANTIBODIES, IMMUNE SERA
SEE ALSO IMMUNOLOGY, SEROLOGY*
R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
P01HL-08682-15 0006 Regulation of the cardiovascular system - Cardiovascular studies of mammalian hibernators (sciuromorpha)
R01HL-13885-08 0007 Cystic fibrosis and pulmonary disease - Alveolar macrophage defense mechanism (human, rabbits)
R01HL-13885-08 0008 Cystic fibrosis and pulmonary disease - Pseudomonas specific activation of alveolar macrophages (human, rabbits)
R01HL-13885-08 0009 Cystic fibrosis and pulmonary disease - Respiratory mucus glycoproteins (human, rabbits)
P01HL-17812-04 0004 Thrombosis and plasma proteins - Serum-platelet interaction (human)
R01HL-19066-03 Synthesis and evaluation of prostaglandin metabolites (guinea pigs)
P50HL-19157-02 0007 Studies in cystic fibrosis and bronchiolitis - Analysis of cystic fibrosis factors (human)
R23HL-21083-02 Pharmacokinetics of digoxin and digitoxin in humans (rats)
R23HL-21411-02 Control of extracellular lysosomal hydrolase levels (rats)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
N01HR-72922-01 Cystic fibrosis factor identication and quantification (human)
N01HR-72923-01 Cystic fibrosis factor identification and quantification (human)

BLOOD AND RE SYSTEM, BLOOD FRACTIONATION

SEE ALSO BLOOD TREATMENT, LEUKAPHERESIS
SEE ALSO BLOOD TREATMENT, PLASMAPHERESIS
** R01HL-13881-08 The American Red Cross National Fractionation Center
** P01HL-15596-05 0007 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of urokinase (human)
** P01HL-15596-05 0008 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of antihemophilic factor (human)
** P01HL-15596-05 0016 Coagulation, fibrinolysis, hemostasis and hepatitis - Hepatitis-B antigen in whole blood, plasma and plasma fractions (human, monkeys)
** P01HL-15596-05 0020 Coagulation, fibrinolysis, hemostasis and hepatitis - Affinity chromatography
P60HL-15996-06 0010 Cincinnati comprehensive sickle cell center - Whole blood viscosity in sickle cell anemia (human)
P60HL-17265-04 0001 Community blood resource center support - Demonstration and evaluation
R01HL-19946-03 Reduction of iron overload in thalassemia (children, rabbits, dogs, monkeys)
** R01HL-20788-02 Preservation of human platelets for transfusion
R01HL-20818-02 Platelet storage at 22 degrees C (human)
P60HL-20985-01 0004 Northern California sickle cell center - Characterization of irreversibly sickled cells (human)
R01HL-21791-01 Precipitation of proteins with poly (ethylene glycol) (human)

BLOOD AND RE SYSTEM, BONE MARROW

SEE ALSO BLOOD AND RE SYSTEM, HEMATOPOIETIC TISSUE
SEE ALSO BLOOD CELLS, ERYTHROBLASTS AND ERYTHROID STEM CELLS
P01HL-11310-12 0095 Mechanisms of cardiovascular disease - Blood and transfusion disorders (human, rats, monkeys)
** P01HL-18208-04 0003 Center for the study of blood cell rheology - Bone marrow microcirculation (rats, mice)
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
R01HL-19933-02 Membrane and red cell dysfunction in hemolytic anemia (human)
R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)
R01HL-23736-04 Sickle cell anemia and hemoglobin synthesis (monkeys)

BLOOD AND RE SYSTEM, BONE MARROW TRANSPLANTATION

** N01HB-62963-03 International bone marrow transplant registry
** N01HB-62964-03 International bone marrow transplant registry
P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immune response (dogs)
R01HL-13987-04 Transplantation of the lung (dogs)
R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)
** R01HL-16119-05 Spleen and marrow allografts in hereditary anemia (mice)
P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)
P60HL-17265-04 0008 Community blood resource center support - Research--Blood genetic markers as biological probes (human)
R01HL-19333-03 Hematopoietic chimerism (mice, monkey)

BLOOD AND RE SYSTEM, HEMATOLOGY

SEE ALSO BLOOD AND RE SYSTEM, BLOOD*
SEE ALSO BLOOD AND RE SYSTEM, IMMUNOHEMATOLOGY (GENERAL)
SEE ALSO BLOOD (HEMATOLOGIC) TESTS*
SEE ALSO HEMATOLOGY STUDY SECTION

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects
See Appendix for investigator's name and grant number.

P01HL-08899-14 0018 Tolerance to respiratory gases in health and disease Effects of respiratory gases at extreme pressures (human)
** R01HL-10582-12 Thrombosis and hemostasis-Analysis, methods and standards (human, cattle, venom)
** P01HL-13738-08 0004 Cardiac assist devices and artificial hearts - Hematological evaluation of prosthetic materials (calves)
P60HL-16008-06 0009 Wayne State University comprehensive sickle cell center - Natural history of sickle cell anemia (human)
R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
** P01HL-16851-04 0010 Human red cell membrane in health and disease - Core facility-Hematology clinic
P60HL-17265-04 0010 Community blood resource center support - Blood resources educational program
** R01HL-17402-04 Mechanism of contact activation of intrinsic clotting (human)
R01HL-20106-02 Coupling of platelet contractile proteins to fibrin (human)
R01HL-20788-02 Preservation of human platelets for transfusion
R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)

BLOOD AND RE SYSTEM, HEMATOPOIESIS

** R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)
** P50HL-18828-03 0009 Specialized center of research in thrombosis - Platelet formation and megakaryocyte cell biology (guinea pig, human)
** R01HL-19333-03 Hematopoietic chimerism (mice, monkey)
R01HL-20086-02 Circulatory control of splenic function (rats)
R01HL-20902-02 Studies on marginal band system of erythrocytes (amphibians, reptiles, fish)

BLOOD AND RE SYSTEM, HEMATOPOIESIS, ERYTHROPOIESIS

R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
** R01HL-03357-21 Humoral control of blood cell formation and release (rats, mice)
** R01HL-04612-20 Feedback between red cell production and oxygen transport (rabbits, rats)
** R01HL-07449-17 Formation and survival of red blood cells (human)
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
** R01HL-10567-12 Erythropoietin--Immunoassay and characterization (dogs)
R01HL-13237-09 Erythrocytes during early development (human, animals)
R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)
** P60HL-15999-05 0019 Miami comprehensive sickle cell center - Fetal-adult hemoglobin switch (mouse, monkey)
P60HL-15999-05 0021 Miami comprehensive sickle cell center - Diphosphonates--Erythrocyte calcium loading, maturation (human, chick embryo)
** P60HL-16005-05 0013 Comprehensive sickle cell center - Study of regulation of erythropoiesis in vitro (human, rat, hamster, rabbit)
** P60HL-16005-05 0022 Comprehensive sickle cell center - Regulation of erythropoiesis in patients with sickle cell anemia
R01HL-16580-04 Mathematical models for studying sickle-cell disease
** R01HL-16654-06 Regulation in developing erythroid cells (human)
R01HL-16675-05 Human urinary erythropoietin collection
R01HL-18186-04 Cardiac allografts in autologous radiation chimeras (rats, dogs)
** R01HL-19068-03 Changes in membrane properties during erythropoiesis (chick embryo)
** R01HL-19270-03 Effects of erythropoiesis on platelets and hemostasis (rats)
** R01HL-19933-02 Membrane and red cell dysfunction in hemolytic anemia (human)
** R01HL-20300-02 Histone H5 and avian erythropoiesis (chickens, rabbits)
** R01HL-20913-02 Cell culture studies of hemoglobinopathies (human)
R01HL-20922-02 Control of human fetal hemoglobin synthesis
R01HL-21683-02 Purification of erythropoietin (human)
R01HL-21701-02 Purification of erythropoietin (human)
** R01HL-22650-01 Regulatory mechanisms of erythropoietin production (human, rats, mice)
R01HL-24048-01 Regulation of hemoglobin synthesis in chick embryos

BLOOD AND RE SYSTEM, HEMATOPOIESIS, LEUKOPOIESIS

** R01HL-03357-21 Humoral control of blood cell formation and release (rats, mice)
R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)

BLOOD AND RE SYSTEM, HEMATOPOIETIC FACTORS

SEE ALSO BLOOD AND RE SYSTEM, RE STIMULATING FACTORS
SEE ALSO BLOOD COAGULATION, THROMBOPOIESIS STIMULATING FACTORS
R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)
R01HL-21303-02 Collagen synthesis by cultured human vascular cells

BLOOD AND RE SYSTEM, HEMATOPOIETIC FACTORS, ERYTHROPOIETIC INHIBITORS

R01HL-21686-02 Purification of erythropoietin (human)

BLOOD AND RE SYSTEM, HEMATOPOIETIC FACTORS, ERYTHROPOIETIN

SEE ALSO VITAMIN B12
** N01HB-82924-00 Source of human urinary erythropoietin
** N01HB-82926-00 Source of human urinary erythropoietin
R01HL-03357-21 Humoral control of blood cell formation and release (rats, mice)
** R01HL-04612-20 Feedback between red cell production and oxygen transport (rabbits, rats)
R01HL-07449-17 Formation and survival of red blood cells (human)
** R01HL-10567-12 Erythropoietin--Immunoassay and characterization (dogs)
** R01HL-10880-13 Purification of human erythropoietin for research use
R01HL-14637-05 Thrombopoietin--Immunoassay and characterization (mice)
** P60HL-15170-05 0017 Support for center for sickle cell anemia - Control of hemoglobulin synthesis (human)
R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)
** R01HL-15685-05 Hemopoietic regulators produced in cell culture (human, animals)
P60HL-16005-05 0013 Comprehensive sickle cell center - Study of regulation of erythropoiesis in vitro (human, rat, hamster, rabbit)
** P60HL-16005-05 0022 Comprehensive sickle cell center - Regulation of erythropoiesis in patients with sickle cell anemia
** R01HL-16675-05 Human urinary erythropoietin collection
** P01HL-18208-04 0003 Center for the study of blood cell rheology - Bone marrow microcirculation (rats, mice)
R01HL-20912-02 Control on non-alpha chain synthesis in thassemic mice
R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)
** R01HL-21676-02 Purification and properties of erythropoietin (human)
** R01HL-21683-02 Purification of erythropoietin (human)
** R01HL-21686-02 Purification of erythropoietin (human)
** R01HL-21692-02 Purification of erythropoietin (human)
** R01HL-21701-02 Purification of erythropoietin (human)
** R01HL-22650-01 Regulatory mechanisms of erythropoietin production (human, rats, mice)

BLOOD AND RE SYSTEM, HEMATOPOIETIC TISSUE

SEE ALSO BLOOD AND RE SYSTEM, BONE MARROW
SEE ALSO BLOOD AND RE SYSTEM, SPLEEN
SEE ALSO BLOOD CELLS, HEMATOPOIETIC STEM CELLS (GENERAL)
R01HL-20912-02 Control on non-alpha chain synthesis in thassemic mice

BLOOD AND RE SYSTEM, IMMUNOHEMATOLOGY (GENERAL)

R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
R01HL-03424-21 Formation and properties of prothrombin derivatives (human, animals)
R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
R01HL-08399-15 Platelet injury in infections and allergic diseases (human)
** R01HL-10036-13 Biology of red cell antigen-antibody reaction (human)
R01HL-10567-12 Erythropoietin--Immunoassay and characterization (dogs)
R01HL-11154-12 Blood group antigens and antibodies (human)
P01HL-11310-12 0095 Mechanisms of cardiovascular disease - Blood and transfusion disorders (human, rats, monkeys)
R01HL-11686-09 Dynamics of thrombus formation and dissolution (human, chickens)
** R01HL-12994-09 The Rh complex of red cells (human)
R01HL-13336-09 Biochemistry and physiology of human platelets
** R01HL-13585-05 Heterogeneity of NAOH methemoglobin reductase (human)
R01HL-13629-08 Hemorrhagic diseases (human)
P60HL-15158-07 0020 Comprehensive sickle cell center - Immunochemical investigation of hemoglobin variants (human)
R01HL-15690-07 Hydrolytic enzymes of blood in health and disease (human, animals)
** R01HL-16626-05 Studies of antibodies to antihemophilic factors (human, rabbits)
** R01HL-16646-05 Pathobiology of thromboembolic disorders (human)
R01HL-16720-02 Platelet aggregation (human)
R01HL-16757-04 'Autoimmune' thrombocytopenia (monkey)
R01HL-16872-04 Antihemophilic factor (human)
P60HL-17265-04 0003 Community blood resource center support Research-Human factor IX-Role in intrinsic clotting (also baboons, dogs)
P60HL-17265-04 0006 Community blood resource center support Research-Evaluation of platelet transfusions (human, dog)
R01HL-17752-03 Purified human clotting factor IX Immunologic studies (human)
R01HL-18012-04 Cellular defects in nocturnal hemoglobinuria (human)
R01HL-18186-04 Cardiac allografts in autologous radiation chimeras (rats, dogs)
R01HL-18859-03 Biochemistry of human factor XI (human)
R01HL-18935-03 [illegible]gen, soluble fibrin interaction (human)
R01HL-19105-02 Detection and adherence of fibrin monomer complexes (human)
** R01HL-19646-03 An immunologic study of hemoglobin variation in man
** R01HL-19767-01 Pathochemistry of fibrinogen (humans)
** R01HL-20014-02 Radioimmunoassay of hyper and hypocoagulable states (rabbits)
R01HL-20314-02 Host defense against S pneumoniae in sickle cell disease (human)
P60HL-20985-01 0007 Northern California sickle cell center - Immunohematologic abnormalities in sickle cell anemia (human)
R23HL-21208-02 Structure-function relationships of human factor VIII
R01HL-21379-01 Structure of factor VIII-Von Willebrand protein (human)
R01HL-21403-02 Blood clotting kinetics studied by radioimmunoassay (human)
** R01HL-21431-02 Factor II antigen and coagulant activity (human, animals)
** R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)
R23HL-21730-01 vWagII--A new vW0 deficient antigen (human)
R01HL-21975-01 Studies on normal and abnormal factor IX (human, dogs, cows)
** R01HL-22355-01 Purification, structure and function of factor VIII (human)
R01HL-22505-01 Molecular pathology of fibrinogen and factor XIII (human, animals)
R01HL-22671-01 Removal of senescent and stored human red cells
R23HL-22799-01 Interaction of the complement and coagulation systems (monkeys)
R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)

BLOOD AND RE SYSTEM, LYMPH

** R01HL-03180-21 Relation of lymphatics to cardiopulmonary function (dogs)
R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
P01HL-11678-11 0070 Cardiovascular dynamics and their control - Interaction of the four Starling forces (dogs)
** R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)
P50HL-14164-07 0033 A/S SCOR--Comparative and experimental atherosclerosis - Comparative studies of lipoprotein distribution and metabolism (monkeys)
P50HL-14164-07 0037 A/S SCOR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
** R01HL-17781-03 Hypertension, kidney disease and renal lymph (dogs, rats)

BLOOD AND RE SYSTEM, LYMPH FLOW

R01HL-04512-19 Ultrastructural studies of capillary permeability (rats, mice)
P01HL-08899-14 0025 Tolerance to respiratory gases in health and disease - Effects of oxygen on cardiopulmonary gas transport functions (dogs)
** P01HL-11678-11 0035 Cardiovascular dynamics and their control - Lymph flow rate and protein concentration (dogs)
P01HL-11678-11 0036 Cardiovascular dynamics and their control - Pulmonary capillary dynamics and edema (dogs)
P01HL-11678-11 0039 Cardiovascular dynamics and their control - Capillary and interstitial fluid dynamics of the intestine (cats)
R01HL-16916-04 0001 The role of albumins in lung water accumulation - Capillary permeability (dogs, human)
** R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)
M P50HL-19153-02 SCOR--Pulmonary edemas--Etiology, pathogenesis
P50HL-19153-02 0001 SCOR--Pulmonary edemas--Etiology, pathogenesis - Prostaglandins and the lung circulation (sheep)
P50HL-19153-02 0002 SCOR--Pulmonary edemas--Etiology, pathogenesis - Lung fluid dynamics--Classical mediators and their inhibitors (sheep)
P50HL-19153-02 0003 SCOR--Pulmonary edemas--Etiology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P50HL-19153-02 0004 SCOR--Pulmonary edemas--Eitology, pathogenesis Physical mechanisms in lung transvascular transport--Math models (sheep)
P50HL-19153-02 0007 SCOR--Pulmonary edemas--Eitology, pathogenesis - Core--Experimental laboratories and support facilities
** R01HL-19370-03 Coronary capillary exchange--The effects of ischemia (dogs, sheep)
P01HL-20994-02 0001 Dynamics of neutrophil elastase in the lung - Oynamics of neutrophil elastase in normal animals (dogs, rabbits)
R01HL-21076-02 Lung fluid, protein exchange after hemorrhagic shock (sheep)
R01HL-21452-02 Pulmonary capillary filtration in myocardial ishemia (dogs)
R01HL-21498-02 Pathophysiology of edema (rats, cats)
R01HL-21948-01 Capillary, tissue volume and lymph flow in lung edema (sheep, cattle)
R01HL-22520-01 Pulmonary vascular response to group B Streptococci (human, mammals)
** R01HL-22549-02 Transport across alveolar capillary membrane (dogs)
P01HL-22602-01 0002 Pathophysiology of the endothelium - Molecular charge and endothelial permeability (rats, mice)
** R01HL-22911-01 Mechanism of clearance of lung edema fluid (dogs)
** R23HL-22933-01 Transvascular fluid and protein exchange in the lung (sheep)

BLOOD AND RE SYSTEM, LYMPHATIC CIRCULATION (GENERAL)

** R01HL-03180-21 Relation of lymphatics to cardiopulmonary function (dogs)
R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)
** R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)
R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
R01HL-17596-03 Leukocyte-endothelial interactions (rats)
P50HL-17646-04 0005 Study of ischemic heart disease - Biochemical markers and mediators of myocardial ischemic injury
P50HL-19155-02 0004 Pathophysiology of pulmonary edema - Physical and chemical effects of multiple pulmonary emboli (sheep)
** P50HL-19155-02 0005 Pathophysiology of pulmonary edema - Protein exchange sites and lymph protein concentration in lung (mice, sheep)
P50HL-19185-02 0004 Pulmonary SCOR--Neonatal respiratory distress syndromes - Fluid and protein transport in fetal and newborn lung (sheep, rabbits)

BLOOD AND RE SYSTEM, LYMPHATIC CIRCULATION, THORACIC DUCT

R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)

BLOOD AND RE SYSTEM, LYMPHATIC DUCT DRAINAGE

P01HL-06285-18 0145 Cardiovascular-respiratory physiology and biochemistry - Pulmonary, pleural and systemic microcirculation (animals)
** P01HL-06312-17 0029 Surgical cardiology - Cardiac lymphatics in the transplanted heart (dogs)
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)

BLOOD AND RE SYSTEM, LYMPHATIC TISSUE

SEE ALSO BLOOD AND RE SYSTEM, SPLEEN
** P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immune response (dogs)
** P01HL-16769-05 0010 Pathobiologic and host defense reactions in the lung - Bronchus associated lymphoid tissue and delayed hypersensitivity (rabbits)
R01HL-19741-03 Murine CRO--A model of chronic pulmonary inflammation (mice, rats)
R01HL-19760-01 Cellular immune responses of the lung (mice, guinea pigs)
R01HL-22924-01 The airway mucosal barrier (guinea pigs)

BLOOD AND RE SYSTEM, LYMPHATIC TISSUE, LYMPH NODES

** R01HL-08696-15 0010 Orthotopic heart transplantation - Transplantation immunology--Total lymphoid irradiation (dogs, primates)
P01HL-16769-05 0003 Pathobiologic and host defense reactions in the lung - Pathobiologic mechanisms of delayed sensitivity reactions in the lung (animals)
R01HL-17596-03 Leukocyte-endothelial interactions (rats)
R01HL-20954-02 Hyperlipoproteinemia (rats, human)

BLOOD AND RE SYSTEM, MACROPHAGES

SEE ALSO LIVER CELLS, KUPFFER CELLS
SEE ALSO RESPIRATORY SYSTEM, ALVEOLAR MACROPHAGES
P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel didease--Cell and matrix response (human, mice)
P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)
P01HL-06314-17 0048 Immunologic mechanisms in cardiovascular disease - Pathogenesis of glomerulonephritis (rats, mice)
P01HL-06314-17 0052 Immunologic mechanisms in cardiovascular disease - Role of cyclic nucleotides in neutrophil function (human)
P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Oiabetic vascular disease (human, rats, mice)
** P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease - Mitogenic and antigenic activation of lymphocyte sub-populations
R01HL-07652-14 Oestruction of red blood cells in hemolytic anemias (human, guinea pigs)
P01HL-08682-15 0019 Regulation of the cardiovascular system - Hepatic immunophysiology and host-defense in shock (rat, dog, human)
P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
P50HL-14147-08 0006 Specialized center of research in thrombosis - Clearance mechanisms of coagulation moieties (human, rabbits, rodents)
P50HL-14153-07 0004 Johns Hopkins Lung Center--Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)
P50HL-15061-07 0009 Response of lung to injury - Alveolar macrophages (human, rabbits)
P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
P01HL-17417-05 0003 Experimental lung transplantation - Methods for detecting lung allograft rejection (dogs)
P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
P50HL-19171-02 0007 Pulmonary SCOR--Lung injury by childhood infections - Immunologic studies in models of lower respiratory tract infection (rodents)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
** R01HL-19732-03 Lymphokines in pulmonary granulomatous inflammation (mice)
R01HL-19774-03 Pathogenesis of chronic lung disease (rats, mice, bacteria)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
R01HL-21047-01 Studies of coxsackievirus-induced myocarditis in mice
R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)
R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
** R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)
R23HL-21805-01 Tissue cell interactions with vascular prostheses (human, rats, mice)
R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)
** R01HL-22474-01 Cholesterol metabolism and atherosclerosis (rats, human, rabbits)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
** R01HL-22671-01 Removal of senescent and stored human red cells
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)

BLOOD AND RE SYSTEM, MAST CELLS

R01HL-02953-17 Autonomic and cardiovascular pharmacology (rats, rabbits, dogs, guinea pigs)
** P01HL-03174-23 0009 Mechanisms of acute vascular reaction to injury - Mast cell lipid interaction (human, rats)
P01HL-07896-15 0043 Environmental biomedical research program - Effect of hyperbaric oxygen on the lung (human, rabbits)
P50HL-14153-07 0015 Johns Hopkins Lung Center--Chronic diseases of airways - Kinins and human lung
** P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
** P01HL-16411-04 0001 Blood systems in coagulation and vessel disease - Molecular studies of the role of complement in blood coagulation (human, rabbits)
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)
** R01HL-19062-03 Pharmacologic control of mast cell phosphodiesterase (human, rats)
** P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
** R23HL-21089-02 Localization of mediators in dispersed lung cells (guinea pigs, human)
R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
R01HL-22402-01 Heparin-biophysical, chemical and biological aspects (mice, human)
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)
** R01HL-23593-01 Mast cell granules--Structure and secretion (rats)

BLOOD AND RE SYSTEM, MEGAKARYOCYTES

R01HL-13336-09 Biochemistry and physiology of human platelets
R01HL-14637-05 Thrombopoietin--Immunoassay and characterization (mice)
** P01HL-18208-04 0003 Center for the study of blood cell rheology - Bone marrow microcirculation (rats, mice)
R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
** P50HL-18828-03 0009 Specialized center of research in thrombosis - Platelet formation and megakaryocyte cell biology (guinea pig, human)
R01HL-19270-03 Effects of erythropoiesis on platelets and hemostasis (rats)
** R01HL-20826-02 Megakaryocyte proliferation and its control (mice)
** P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)

BLOOD AND RE SYSTEM, RE STIMULATING FACTORS

SEE ALSO BLOOD ANO RE SYSTEM, HEMATOPOIETIC FACTORS
** R01HL-18002-03 Circulatory shock, trauma and RE-system function (rats)

BLOOD AND RE SYSTEM, RETICULOENDOTHELIAL SYSTEM (GENERAL)

P01HL-08682-15 0019 Regulation of the cardiovascular system - Hepatic immunophysiology and host-defense in shock (rat, dog, human)
P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
** P01HL-08682-15 0021 Regulation of the cardiovascular system - Hypoglycemia in pathogenesis of shock (dog)
R01HL-18284-04 Aging erythrocytes--Bio-recognition and elimination (monkeys)
** R01HL-18731-02 RES stimulating materials in experimental shock (dogs)
R23HL-21271-02 Extracorporeal circulation and protein denaturation (human)
R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)

BLOOD AND RE SYSTEM, SPLEEN

SEE ALSO BLOOD AND RE DISOROERS, SPLENIC DISORDERS
R01HL-07723-15 Reflex control of vascular capacitance in shock
P01HL-16748-05 0006 Cellular and immunological basis of pulmonary diseases - Sarcoidosis--Studies with bronchial lavage (human)
R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
P01HL-18208-04 0003 Center for the study of blood cell rheology - Bone marrow microcirculation (rats, mice)
** P01HL-18208-04 0004 Center for the study of blood cell rheology - Splenic microcirculation (rats, mice)
R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
** R01HL-20086-02 Circulatory control of splenic function (rats)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R01HL-21159-02 Pathophysiological effects of hypoxia (rats)
R01HL-22367-01 Estrogen receptors in very low density lipoproteins (chicken livers)

BLOOD AND RE SYSTEM, SPLEEN TISSUE (CELLS) TRANSPLANTATION

** R01HL-16119-05 Spleen and marrow allografts in hereditary anemia (mice)
R01HL-20086-02 Circulatory control of splenic function (rats)
R01HL-20170-02 Pulmonary infection in splenectomized animals (mice)

BLOOD AND RE SYSTEM, SPLENECTOMY

R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)
R01HL-16757-04 'Autoimmune' thrombocytopenia (monkey)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL 18997 02 Ischemic therapy in experimental hypersplenism (rats, dogs)
R01HL 19760 01 Cellular immune responses of the lung (mice, guinea pigs)
R01HL 20086 02 Circulatory control of splenic function (rats)
** R01HL 20170 02 Pulmonary infection in splenectomized animals (mice)
P60HL 23282 01 0002 Comprehensive hospital/community sickle cell center Clinical evaluation of alternate pathaway of compliment activation

BLOOD AND RE SYSTEM, THYMECTOMY

R01HL-16246 06 Immunologic studies in postpericardiotomy syndrome (human)
R01HL 22301 01 Immunogenetics of chronic pulmonary inflammation (mice)

BLOOD AND RE SYSTEM, THYMOSIN

P60HL-16008 06 0019 Wayne State University comprehensive sickle cell center Cell mediated immunity in sickle cell anemia (human)
R01HL-19774 03 Pathogenesis of chronic lung disease (rats, mice, bacteria)

BLOOD AND RE SYSTEM EXAMINATIONS

SEE BLOOD AND RE DISORDERS DIAGNOSIS (INCL EXAMS)*

BLOOD AND RE SYSTEM PHARMACOLOGY

SEE ALSO BLOOD AND RE DISORDERS CHEMOTHERAPY
N01HB-22922 08 Develop effective therapy for sickle cell disease (human, dogs)
P01HL-04664 18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique
R01HL-09163 13 Control mechanisms in hemostasis (human)
** R01HL-09739-13 Biophysical studies of proteins (human)
R01HL-10383-12 Physical-chemical studies of hemoglobins and erythrocyte (human)
R01HL-12256-15 Polymerization of sickle-cell hemoglobin (human)
R01HL-13336 09 Biochemistry and physiology of human platelets
R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)
** P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
** P50HL-14217-08 0061 Specialized center of research in thrombosis - Pharmacology--Comparison of platelets and vascular smooth muscle (animal)
R01HL-14739-06 The role of leukocytes in thrombotic disease (human, dogs)
P60HL-15157-07 0009 Comprehensive center for sickle cell disease - Red cell membrane alterations during sickling (human)
P60HL-15157-07 0011 Comprehensive center for sickle cell disease - Development of specific anti-sickling compound (human)
P60HL-15158-07 0011 Comprehensive sickle cell center - Clinical services--Adult patients
P60HL-15162-07 0019 Comprehensive sickle cell center - RBC-Blood rheology in sickle cell anemia and related disorders (human, animal)
P60HL-15168-07 0009 Comprehensive sickle cell disease center - Spin-label study of sickling (human)
** R01HL-15293-07 Sickle cell hemoglobin--Interactions and aggregation (human)
R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
** P60HL-15999-05 0021 Miami comprehensive sickle cell center - Diphosphonates--Erythrocyte calcium loading, maturation (human, chick embryo)
P01HL-16387-04 0005 The blood vessel and thrombogenesis - Fluid engineering considerations in thrombogenesis
R01HL-16582-05 Artificial lungs (dogs)
R01HL-16647-05 Studies on the control of sickle cell crisis (human)
P01HL-16833-04 0009 Hemoglobin and red cell system in hemoglobinopathies - Rheological studies of sickled cells (human)
P01HL-16833-04 0017 Hemoglobin and red cell system in hemoglobinopathies - Sulfhydryl group blockade antisickling effect (human)
P60HL-17265-04 0003 Community blood resource center support - Research--Human factor IX--Role in intrinsic clotting (also baboons, dogs)
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)
R01HL-17571-03 Study of membrane permeability by NMR relaxation (human)
R01HL-17596-03 Leukocyte-endothelial interactions (rats)
R01HL-17747-04 Endothelial injury and regeneration (rats)
P01HL-17812-04 0004 Thrombosis and plasma proteins - Serum-platelet interaction (human)
P01HL-17812-04 0005 Thrombosis and plasma proteins - In vitro systems of normal platelets, white cells, sera (human)
R01HL-17930-03 Platelet membrane function--Assessment and application (animals)
R01HL-18002-03 Circulatory shock, trauma and RE-system function (rats)
P01HL 18208 04 0005 Center for the study of blood cell rheology RBC deformability and capillary flow interrelations (human, mice)
P01HL 18576 03 0001 Thrombosis research program project Platelet damage from physical forces and artificial surfaces (human)
P01HL-18576-03 0007 Thrombosis research program project Relationships between coagulability and thrombosis (human, animals)
P01HL 18576 03 0012 Thrombosis research program project Synthetic anticoagulant and thrombolytic agents (dogs)
R01HL 18644 03 Prosthesis for aortocoronary bypass (dogs, baboons)
R01HL 18660 03 Neurotransmitter receptors in human erythrocytes
P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis Platelet immune injury in man
P50HL 18828-03 0004 Specialized center of research in thrombosis Membrane changes in platelet physiology Role of complement (mice, human)
P50HL-18828 03 0005 Specialized center of research in thrombosis Platelet inflammatory factors in thrombosis (human, guinea pig)
P50HL-18828-03 0008 Specialized center of research in thrombosis Biochemistry, physiology Platelets and subcellular platelet particles (human)
P50HL-18828-03 0009 Specialized center of research in thrombosis - Platelet formation and megakaryocyte cell biology (guinea pig, human)
R01HL-19095 03 Laser spectroscopy of lipoproteins (human)
** R01HL-19532-01 Oxygen toxicity in the red cell (human)
R01HL-20319-02 Assembly, structure and interactions of fibrin (human)
** P60HL-20985-01 0006 Northern California sickle cell center - Antisickling properties of imidoesters (human, rats)
P01HL-21016-02 0010 Sickle cell anemia and other hemoglobinopathies - Alkylureas as potential anti-sickling agents
R23HL-21129-02 The antisickling effects of imidoesters
R23HL-21413-02 Structure and function of platelet calcium-binding protein (human)
** R01HL-22035-01 Molecular modification of heparin by chemical means (sheep)
P01HL-22163-01 0003 Surface thrombogenesis--Mechanisms and prevention - In vivo mechanisms of biomaterial thrombogenesis and its prevention (baboons)
R01HL-22194-02 Allosteric function of platelet contractile proteins (human)
R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)

BLOOD BACTERICIDAL ACTIVITY (GENERAL)

SEE IMMUNITY, BACTERICIDAL DEFENSES (GENERAL)

BLOOD BANKS

SEE BLOOD PRESERVATION, BLOOD BANKS, CENTERS-RESOURCES-REGISTRIES

BLOOD-BRAIN BARRIER

SEE CEREBROVASCULAR SYSTEM, BLOOD-BRAIN BARRIER

BLOOD CELL COUNT

SEE BLOOD (HEMATOLOGIC) TESTS, BLOOD CELL COUNT*

BLOOD CELL DEPLETION THERAPY, LYMPHOCYTE DEPLETION

SEE ALSO BLOOD AND RE SYSTEM, LYMPHATIC DUCT DRAINAGE
R01HL-14799-07 Cardiac heterotransplantation--Immunologic modification (mice, rat)

BLOOD CELL DEPLETION THERAPY, T LYMPHOCYTE DEPLETION

R01HL-08696-15 0010 Orthotopic heart transplantation - Transplantation immunology--Total lymphoid irradiation (dogs, primates)

BLOOD CELL FORMATION

SEE BLOOD AND RE SYSTEM, HEMATOPOIESIS

BLOOD CELLS

** R01HL-12944-09 Enzymatic and biochemical studies on blood cells (human)
** P01HL-16851-04 0009 Human red cell membrane in health and disease - Blood cell properties in circulatory regulation (dogs, rabbits)
** P01HL-16851-04 0012 Human red cell membrane in health and disease - Computer unit--Core facility

BLOOD CELLS, ERYTHROBLASTS AND ERYTHROID STEM CELLS

SEE ALSO BLOOD AND RE DISORDERS, ANEMIA SIDEROBLASTIC
R01HL-04612-20 Feedback between red cell production and oxygen transport (rabbits, rats)
P60HL-15999-05 0019 Miami comprehensive sickle cell center - Fetal-adult hemoglobin switch (mouse, monkey)
R01HL-20300-02 Histone H5 and avian erythropoiesis (chickens, rabbits)
** R01HL-20899-02 Cellular mechanisms of hemoglobin F regulation (human)
R01HL-20905-02 Synthesis of fetal hemoglobin in erythroid cells (sheep, human)

BLOOD CELLS, ERYTHROCYTES

SEE ALSO BLOOD AND RE DISORDERS, ANEMIA
SEE ALSO BLOOD AND RE DISORDERS, BONE MARROW POLYCYTHEMIA
SEE ALSO BLOOD AND RE SYSTEM, HEMATOPOIESIS ERYTHROPOIESIS
SEE ALSO BLOOD TREATMENT PLASMAPHERESIS
SEE ALSO HEMOPROTEINS, HEMOGLOBINOPATHIES
SEE ALSO MEMBRANE, ERYTHROCYTE GHOST AND MEMBRANE
SEE ALSO PROTEINS, MEMBRANE PROTEINS, SPECTRIN
** N01HB-62962 02 Red cell distributions in cyanate treated blood (human, sheep)
P01HL-03174 23 0006 Mechanisms of acute vascular reaction to injury--Atherosclerotic plaque studies using mosaic analysis (human)
P01HL-03174 23 0010 Mechanisms of acute vascular reaction to injury Search for mutagens in the human blood (bacteria, animals)
P01HL-06835 17 0019 Cardiovascular disease Fatty acid distribution (rats)
** R01HL-06950-17 Red cell metabolism (human, vertebrates)
** R01HL-07449-17 Formation and survival of red blood cells (human)
P01HL-09011-15 0001 A research and resource program in blood - Genetic markers of human blood and gene mapping (human)
** R01HL-09906-13 0019 Membrane transport processes in red blood cells - Hemoglobin change and membrane potentials in red blood cells at varying volumes
** R01HL-09906-13 0020 Membrane transport processes in red blood cells - Calibration of a fluorescent probe for erythrocytes
** R01HL-09906-13 0021 Membrane transport processes in red blood cells - Membrane potentials in human red blood cells due to proton gradients
** R01HL-09906-13 0022 Membrane transport processes in red blood cells - Anion transport in dog and cat red cells
** R01HL-09906-13 0023 Membrane transport processes in red blood cells - Cation and anion movements in two subgroups of dog erythrocytes
** R01HL-09906-13 0024 Membrane transport processes in red blood cells - Inhibition of sulfate transport in human RBCs by isothiocyanic acid esters
** R01HL-09906-13 0025 Membrane transport processes in red blood cells - Mechanism of propranolol induced Ca-dependent K efflux from human RBCs
** R01HL-10036-13 Biology of red cell antigen-antibody reaction (human)
** R01HL-10383-12 Physical-chemical studies of hemoglobins and erythrocyte (human)
R01HL-11152-12 Vascular physiology (human, cats, dogs)
R01HL-11901-12 0017 Effects of metabolic surgery on the hyperlipidemias - Membrane permeability, blood viscosity, oxygen uptake--Rheology studies (rabbits)
R01HL-12684-09 Angiotensin I and converting enzyme in hypertension (human, primates, dogs)
** R01HL-12972-09 Glutathione deficiency in red cells (sheep, dogs)
** P01HL-13108-09 0012 Clinical heart transplantation - Human T cell sheep erythrocyte receptors
** R01HL-13237-09 Erythrocytes during early development (human, animals)
R01HL-13585-05 Heterogeneity of NADH methemoglobin reductase (human)
P01HL-13737-07 0026 Assisted circulation - Hemostatic mechanism (human, dogs)
R01HL-14127-16 Methemoglobinemia and antihypertensive drugs (cats, mice, rats)
P50HL-14217-08 0050 Specialized center of research in thrombosis - Electron microscopy section (dogs)
P50HL-14230-07 0093 A/S SCOR--Lipids, atherosclerosis and thrombosis - Clinical studies involving cellular lipid content (human)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
P50HL-15061-07 0013 Response of lung to injury - Exchange transfusion in infants with respiratory distress syndrome (human, sheep)
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
P60HL-15157-07 0011 Comprehensive center for sickle cell disease - Development of specific anti-sickling compound (human)
P60HL-15157-07 0012 Comprehensive center for sickle cell disease - Sickling and intracellular pH (human)
** P60HL-15160-07 0011 Center for sickle cell disease - Study of human sickle cells in an animal model (rats)
** P60HL-15162-07 0017 Comprehensive sickle cell center - Hemoglobin, erythrocytes and sickle cell anemia (human, rabbit)
** P60HL-15162-07 0019 Comprehensive sickle cell center - RBC-Blood rheology in sickle cell anemia and related disorders (human, animal)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-15194-07 0006 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Velocity of Bohr effect in erythrocytes (human)
** P01HL-15194-07 0009 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Diffusion and erythrocytes reaction rates (human, dogs)
P01HL-15194-07 0022 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Pulmonary carbon dioxide exchange (dogs)
** R01HL-15226-06 Interaction of blood cells with fibrinogen and fibrin (human, animals)
R01HL-15722-06 Hemorrheology studies related to in vivo blood flow (human)
P60HL-15996-06 0010 Cincinnati comprehensive sickle cell center - Whole blood viscosity in sickle cell anemia (human)
** P60HL-15999-05 0014 Miami comprehensive sickle cell center - Biochemical and morphological parameters of sickle cells (human)
** P60HL-15999-05 0021 Miami comprehensive sickle cell center - Diphosphonates--Erythrocyte calcium loading, maturation (human, chick embryo)
P60HL-16008-06 0014 Wayne State University comprehensive sickle cell center - Zinc and red blood cell metabolism in sickle cell anemia (rats, human)
P60HL-16008-06 0016 Wayne State University comprehensive sickle cell center - Red blood cell glycolysis in sickle cell patients
P60HL-16008-06 0017 Wayne State University comprehensive sickle cell center - Oxygen transport kinetics of pre- and post-sickling cells (human)
** R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
** R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
R01HL-16580-04 Mathematical models for studying sickle-cell disease
** R01HL-16647-05 Studies on the control of sickle cell crisis (human)
R01HL-16656-06 Left ventricular function in exercise (dogs)
P01HL-16833-04 0009 Hemoglobin and red cell system in hemoglobinopathies - Rheological studies of sickled cells (human)
P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
M P01HL-16851-04 Human red cell membrane in health and disease
P01HL-16851-04 0009 Human red cell membrane in health and disease - Blood cell properties in circulatory regulation (dogs, rabbits)
P01HL-16851-04 0011 Human red cell membrane in health and disease - Ultrastructure laboratory--Core facility
P01HL-16910-05 0001 Regulation of the peripheral circulation - Quantitative studies of microcirculatory control (bats)
** R01HL-16931-04 Red cell storage and transfusion (human, animals)
R01HL-17571-03 Study of membrane permeability by NMR relaxation (human)
R01HL-17808-03 Effect of altered oxygen affinity on oxygen transport (human, rats)
R01HL-17878-04 Structural studies of the human erythrocyte membrane
R01HL-17881-15 Biosynthesis and degradation of blood group substances (human, animals)
R01HL-17963-04 Human erythrocyte carbonic anhydrase
R01HL-17967-04 Limiting factors in oxygen uptake in the lung
** R01HL-18082-03 Erythrocyte phosphates and vertebrate gas transport (amphibians, reptiles)
M P01HL-18208-04 Center for the study of blood cell rheology
** P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
** P01HL-18208-04 0002 Center for the study of blood cell rheology - Holography of RBC shape (human)
P01HL-18208-04 0004 Center for the study of blood cell rheology - Splenic microcirculation (rats, mice)
** P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
** P01HL-18208-04 0006 Center for the study of blood cell rheology - Analysis of flow in arterioles and capillaries (human)
R01HL-18256-01 Optical properties of platelets and erythrocytes (rabbits, dogs, human)
** R01HL-18284-04 Aging erythrocytes--Bio-recognition and elimination (monkeys)
R01HL-18328-03 Hemoglobin function and tissue oxygenation (human, dogs)
** R01HL-18551-03 Spectrin, actin, lipid and red cell membrane structure
** R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
R01HL-18725-03 Light-scattering studies of the sickling process (human)
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
** R01HL-19532-01 Oxygen toxicity in the red cell (human)
P01HL-19737-02 0008 Cellular and molecular aspects of respiratory physiology - Kinetics of movement of acid metabolites from cell to capillary blood (dogs)
R01HL-19824-02 Mass transfer in the microcirculation
R01HL-19946-03 Reduction of iron overload in thalassemia (children, rabbits, dogs, monkeys)
R01HL-20074-02 Structure and function of amidinated human hemoglobin
** R01HL-20177-02 Effects of erythrocyte deformability on tissue perfusion (rats)
R01HL-20520-03 Protein modification--The key to diabetic sequelae (human, animal)
** R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
** R01HL-20882-02 Interactions of plasma lipoproteins with erythrocytes (Rhesus, human)
** R01HL-20902-02 Studies on marginal band system of erythrocytes (amphibians, reptiles, fish)
R01HL-20925-01 The acetylation of fetal hemoglobin (human)
** R01HL-20943-02 Comparision of microsphere and RBC behavior in vivo
** P60HL-20985-01 0003 Northern California sickle cell center - Kinetics of sickling and clinical manifestations in sickling disorders (human)
** P60HL-20985-01 0004 Northern California sickle cell center - Characterization of irreversibly sickled cells (human)
** P60HL-20985-01 0006 Northern California sickle cell center - Antisickling properties of imidoesters (human, rats)
P01HL-21016-02 0001 Sickle cell anemia and other hemoglobinopathies - Supramolecular models of Hb S--Mutational and EM approach
** P01HL-21016-02 0006 Sickle cell anemia and other hemoglobinopathies - Analysis of the oxygen dissociation curve of Hb S-containing red cells
R23HL-21129-02 The antisickling effects of imidoesters
R01HL-21179-01 Volume regulation--Role of the membrane potential (amphiuma)
** R23HL-21328-02 The I blood group antigen of human erythrocyte membrane
** R01HL-21845-01 Human red cell membrane--Structure and function
R01HL-21995-01 Protein phosphorylation and adrenergic effects
** R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)
P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)
R01HL-22233-01 Characterization of bio-materials by elastic property
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
** R01HL-22671-01 Removal of senescent and stored human red cells
** R01HL-23200-01 Isolation of CA binding proteins from erythrocytes (human)
R01HL-23900-01 Mechanical measurement of cell membrane viscosity (human)
R01HL-23983-01 Quantitative radiocardiography (human, dogs)

BLOOD CELLS, ERYTHROCYTES, HEMOLYSIS

SEE ALSO BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC
SEE ALSO BLOOD (HEMATOLOGIC) TESTS, OSMOTIC FRAGILITY*
SEE ALSO BLOOD TOXICOLOGY, HEMOLYSINS
** R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
P01HL-13738-08 0003 Cardiac assist devices and artificial hearts - Pathophysiological effects of the artificial heart (calves)
P01HL-13738-08 0004 Cardiac assist devices and artificial hearts - Hematological evaluation of prosthetic materials (calves)
P01HL-13738-08 0005 Cardiac assist devices and artificial hearts - Development of new materials for artificial heart and assist devices (sheep, dog)
R01HL-13803-07 Advanced cardiac valvular and vascular prosthesis (dogs, baboons)
P50HL-14217-08 0051 Specialized center of research in thrombosis - Microcirculation section (bat, hamster)
R01HL-15793-06 Molecular aspects of erythrocyte membrane resealing (human)
P60HL-15999-05 0014 Miami comprehensive sickle cell center - Biochemical and morphological parameters of sickle cells (human)
P60HL-16005-05 0022 Comprehensive sickle cell center - Regulation of erythropoiesis in patients with sickle cell anemia
** R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
P01HL-16833-04 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)
P01HL-16851-04 0003 Human red cell membrane in health and disease - Modeling membrane mechanics and blood rheology
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
P60HL-17269-04 0032 National heart and blood vessel research and demonstration center - Clinical circulatory assist device fabrication
P01HL-17731-04 0010 Physiological basis of pulmonary disease - Gas exchange kinetics (dogs)
** R01HL-18012-04 Cellular defects in nocturnal hemoglobinuria (human)
** R01HL-18163-04 Red cell membrane effects due to oxidizing agents
** P01HL-18208-04 0004 Center for the study of blood cell rheology - Splenic microcirculation (rats, mice)
P50HL-18828-03 0004 Specialized center of research in thrombosis - Membrane changes in platelet physiology--Role of complement (mice, human)
** R01HL-19163-02 Piscine erythrocytic necrosis in the Atlantic cod
** R01HL-19164-03 Piscine erythrocytic necrosis in the Atlantic cod
** P60HL-20985-01 0007 Northern California sickle cell center - Immunohematologic abnormalities in sickle cell anemia (human)
R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)

BLOOD CELLS, ERYTHROCYTES, RETICULOCYTES

R01HL-06950-17 Red cell metabolism (human, vertebrates)
P60HL-16008-06 0018 Wayne State University comprehensive sickle cell center - Hemoglobin S and RBC membranes--Pathogenesis of irreversibly sickled cells
P01HL-18208-04 0003 Center for the study of blood cell rheology - Bone marrow microcirculation (rats, mice)
R01HL-19324-02 Mechanisms of the inhibition of sickling by DBA (human)
R01HL-20859-02 Beta adrenergic catecholamine receptor
P01HL-21016-02 0005 Sickle cell anemia and other hemoglobinopathies - Ligand kinetics in normal and Hb S containing erythrocytes (human)
P01HL-21016-02 0011 Sickle cell anemia and other hemoglobinopathies - Metabolic effects of anti-sickling agents (hamsters)
R01HL-23736-04 Sickle cell anemia and hemoglobin synthesis (monkeys)

BLOOD CELLS, HEMATOPOIETIC STEM CELLS (GENERAL)

SEE ALSO BLOOD CELLS, ERYTHROBLASTS AND ERYTHROID STEM CELLS
** R01HL-15685-05 Hemopoietic regulators produced in cell culture (human, animals)
P01HL-17417-05 0004 Experimental lung transplantation - Methods for suppressing lung allograft rejection (dogs, mice)
R01HL-18186-04 Cardiac allografts in autologous radiation chimeras (rats, dogs)
R01HL-19333-03 Hematopoietic chimerism (mice, monkey)
** R01HL-20826-02 Megakaryocyte proliferation and its control (mice)
R01HL-20912-02 Control on non-alpha chain synthesis in thassemic mice
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)

BLOOD CELLS, LEUKOCYTES

SEE ALSO BLOOD CELLS, LYMPHOCYTES
SEE ALSO BLOOD CELLS, MONOCYTES
SEE ALSO BLOOD TREATMENT, LEUKAPHERESIS
SEE ALSO HYPERSENSITIVITY, TRANSFER FACTOR (HYPERSENSITIVITY)
SEE ALSO IMMUNOLOGY, ANTIBODIES, HEMAGGLUTININS, LEUKO-AGGLUTININS
P01HL-06350-17 0019 Hemostasis research program project - Microcirculation (human, rats, rabbits)
P01HL-09011-15 0001 A research and resource program in blood - Genetic markers of human blood and gene mapping (human)
R01HL-12138-08 Nutritional regulation of enzyme activity (rats, human)
R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
R01HL-12833-09 Genetic and environmental influences on lung disease (human)
R01HL-13336-09 Biochemistry and physiology of human platelets
P50HL-14217-08 0050 Specialized center of research in thrombosis - Electron microscopy section (dogs)
P50HL-14217-08 0052 Specialized center of research in thrombosis - Radioisotope nuclear medicine section (human, dog)
P50HL-14230-07 0093 A/S SCOR--Lipids, atherosclerosis and thrombosis - Clinical studies involving cellular lipid content (human)
** R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Related significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for Investigator's name and grant number.

** R01HL-14739-06 The role of leukocytes in thrombotic disease (humanc dogs)
P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
** R01HL-15226-06 Interaction of blood cells with fibrinogen and fibrin (human, animals)
P01HL-15486-06 0003 Studies on thrombosis - Mechanism and prevention of fibrinopeptide B degradation (human)
R01HL-15491-06 Blood coagulation-Platelet-plasma protein interaction (human)
P01HL-15832-06 0004 Chemical-structural predispositions to lung injury - Proteolytic activity leucocytes in patients with obstructive lung disease
P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
** P01HL-16851-04 0001 Human red cell membrane in health and disease - Rheology of erythrocyte membrane (human, amphiuma)
** P01HL-16851-04 0003 Human red cell membrane in health and disease - Modeling membrane mechanics and blood rheology
P01HL-16851-04 0008 Human red cell membrane in health and disease - Force balance in red cell interactions (human)
P01HL-16851-04 0009 Human red cell membrane in health and disease - Blood cell properties in circulatory regulation (dogs, rabbits)
P01HL-16851-04 0011 Human red cell membrane in health and disease - Ultrastructure laboratory--Core facility
** R01HL-16938-05 Effect of physical forces on blood (dogs, human)
** R01HL-17437-03 'Perfusion lung'--Role of traumatized leukocytes (dogs, human)
** R01HL-17596-03 Leukocyte-endothelial interactions (rats)
P01HL-17812-04 0007 Thrombosis and plasma proteins - Blood components--Response to endotoxin (dogs, baboons)
** R01HL-17964-04 The alternate pathway for fibrinolysis (human)
R01HL-18012-04 Cellular defects in nocturnal hemoglobinuria (human)
M P01HL-18208-04 Center for the study of blood cell rheology
P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
R01HL-20220-03 Anaphylatoxins as inflammatory and chemotactic agents (guinea pig, rabbit, human)
R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
** R01HL-20971-10 Membrane glycoproteins of platelets and leukocytes (human)
** R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
R01HL-22257-01 Leukokinesis enhancing factor and lung infections (human, rats)
R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)
** R23HL-22437-01 Leukotactic mediators in lung inflammatory reactions (rats, rabbits, human)
R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)
** R01HL-22585-01 Plasma proteins adsorbed to artificial organs (human, rabbits)
R01HL-22738-01 Role of bioelectric potentials in platelet adherence (bats, rats, hamsters)
R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)
R01HL-23595-01 Experimental emphysema--Depression of protease inhibitors (rats, hamsters)

BLOOD CELLS, LEUKOCYTES, BASOPHILS

SEE ALSO BLDDD AND RE SYSTEM, MAST CELLS
P50HL-14153-07 0015 Johns Hopkins Lung Center--Chronic diseases of airways - Kinins and human lung
** R23HL-21089-02 Localization of mediators in dispersed lung cells (guinea pigs, human)
** R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)

BLOOD CELLS, LEUKOCYTES, EOSINOPHILS

P01HL-06835-17 0060 Cardiovascular disease - Ventricular performance experimental models of arterial hypertension (rats, dogs)
R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)

BLOOD CELLS, LEUKOCYTES, GRANULOCYTES (GENERAL)

SEE ALSO BLDDD ANO RE OISDROERS, LEUKOCYTE DISDRDERS, AGRANULOCYTOSIS
** N01HB-62970-02 Collection, function and transfusion of granulocytes
** N01HB-62971-03 Collection, function and transfusion of granulocytes
** N01HB-62972-05 Collection, function and transfusion of granulocytes
** N01HB-62973-05 Collection, function and transfusion of granulocytes
** R01HL-06242-18 Kinetic studies of blood (human)
R01HL-14778-10 Proteolytic enzymes and inhibitors in lung disease (mammals, human)
R01HL-15685-05 Hemopoietic regulators produced in cell culture (human, animals)
R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
** P60HL-17265-04 0009 Community blood resource center support - Research--Developing granulocyte transfusion therapy (human, rabbit)
P01HL-18576-03 0009 Thrombosis research program project - Biology of factor VII (human, rabbits, cattle)
P01HL-18577-03 0001 Lipoproteins-Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
** R01HL-19725-03 Complement induced pulmonary injury (dogs, rabbits, sheep)
** R01HL-20807-02 Detection of familial hypercholesterolemia (human)
P01HL-20994-02 0005 Dynamics of neutrophil elastase in the lung - Protease inhibitors in pulmonary inflammation and emphysema (rabbits)
R23HL-22621-01 Blood cell-mediated pulmonary (human)
R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces

BLOOD CELLS, LEUKOCYTES, NEUTROPHILS

** P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)
** P01HL-06314-17 0052 Immunologic mechanisms in cardiovascular disease - Role of cyclic nucleotides in neutrophil function (human)
R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)
** P01HL-15832-06 0004 Chemical-structural predispositions to lung injury - Proteolytic activity leucocytes in patients with obstructive lung disease
P01HL-15832-06 0009 Chemical-structural predispositions to lung injury - Immunology--Enzyme degradation products of human lung elastin and microfibril
P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
P60HL-16008-06 0015 Wayne State University comprehensive sickle cell center - Trace elements in sickle cell disease (human)
** P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
P01HL-16769-05 0004 Pathobiologic and host defense reactions in the lung - Pathogenesis of Pseudomonas and Serratia pneumonias (rabbits)
P60HL-17265-04 0009 Community blood resource center support - Research--Developing granulocyte transfusion therapy (human, rabbit)
P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
R01HL-19741-03 Murine CRD--A model of chronic pulmonary inflammation (mice, rats)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
R01HL-19806-03 Chemotactic control of airway phagocytes (human, rabbits)
** R01HL-20002-03 Pulmonary complications of viral infections (children)
R01HL-20314-02 Host defense against S pneumoniae in sickle cell disease (human)
M P01HL-20994-02 Dynamics of neutrophil elastase in the lung
** P01HL-20994-02 0001 Dynamics of neutrophil elastase in the lung - Dynamics of neutrophil elastase in normal animals (dogs, rabbits)
** P01HL-20994-02 0002 Dynamics of neutrophil elastase in the lung - Neutrophil and neutrophilic elastase in human lungs
** P01HL-20994-02 0003 Dynamics of neutrophil elastase in the lung - Neutrophil elastase flux in models of lung disease (dogs)
P01HL-20994-02 0007 Dynamics of neutrophil elastase in the lung - The etiology of experimental emphysema (dogs)
R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)
R23HL-21805-01 Tissue cell interactions with vascular prostheses (human, rats, mice)
R23HL-21997-01 Pulmonary immunopathology in the compromised host (guinea pigs)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
** R23HL-22823-01 Phagocytic and immune defense mechanisms of the lung (mice)
R01HL-23161-01 0005 Biology of myocardial ischemia Localization of complement in myocardial infarction (dog)

BLOOD CELLS, LYMPHOCYTES

N01HB-22919-08 Hemoglobin carbamylation in the treatment of sickle cell anemia (human, dogs)
R01HL-03180-21 Relation of lymphatics to cardiopulmonary function (dogs)
M P01HL-06314-17 Immunologic mechanisms in cardiovascular disease
P01HL-06314-17 0048 Immunologic mechanisms in cardiovascular disease - Pathogenesis of glomerulonephritis (rats, mice)
** P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changes in lymphocytes (human, mice)
P01HL-06314-17 0052 Immunologic mechanisms in cardiovascular disease - Role of cyclic nucleotides in neutrophil function (human)
P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man
P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
** P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
** P01HL-13108-09 0013 Clinical heart transplantation - Cardiomyopathic lymphocyte responsiveness to cultured endothelium
P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immune response (dogs)
R01HL-13885-08 0006 Cystic fibrosis and pulmonary disease - Cell mediated immunity and Pseudomonas infections in cystic fibrosis (human)
R01HL-13885-08 0008 Cystic fibrosis and pulmonary disease - Pseudomonas specific activation of alveolar macrophages (human, rabbits)
P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
P01HL-16411-04 0003 Blood systems in coagulation and vessel disease - Molecular events involving the late stages of coagulation (rabbits)
M P01HL-16748-05 Cellular and immunological basis of pulmonary diseases
P01HL-16748-05 0006 Cellular and immunological basis of pulmonary diseases - Sarcoidosis--Studies with bronchial lavage (human)
P01HL-16769-05 0007 Pathobiologic and host defense reactions in the lung - Immunogenetic factors in sarcoidosis (human)
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
** R01HL-17596-03 Leukocyte-endothelial interactions (rats)
R01HL-18936-02 Heart preservation and transplantation studies (rat)
R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)
** R01HL-20807-02 Detection of familial hypercholesterolemia (human)
** P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
P01HL-20948-02 0003 Molecular basis of cholesterol metabolism - LDL pathway in vivo (human, rats, guinea pigs)
P01HL-20948-02 0004 Molecular basis of cholesterol metabolism - Genetic analysis of the LDL pathway (human)
P01HL-20948-02 9001 Molecular basis of cholesterol metabolism - Tissue culture core laboratory
R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)
** R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
P01HL-22602-01 0003 Pathophysiology of the endothelium - Mechanisms of endothelial proliferation (human, animals)

BLOOD CELLS, B LYMPHOCYTES

** P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease - Mitogenic and antigenic activation of lymphocyte sub-populations
P01HL-06370-17 0001 Cardiopulmonary and renal pathology research center - The humoral and cellular mechanisms of allograft rejection (monkeys)
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
P01HL-06370-17 0018 Cardiopulmonary and renal pathology research center - Cytochemistry and immunology of lymohoproliferative disorders (human)
P01HL-06835-17 0060 Cardiovascular disease - Ventricular performance experimental models of arterial hypertension (rats, dogs)
P50HL-14212-07 0014 Correlated studies of pulmonary fibrosis - Pulmonary lavage cells, secretions in diffuse intersititial lung disease (human)
P50HL-15061-07 0006 Response of lung to injury - Complement synthesis by pulmonary macrophages (guinea pigs, human)
P60HL-16008-06 0019 Wayne State University comprehensive sickle cell center - Cell mediated immunity in sickle cell anemia (human)
P01HL-16748-05 0002 Cellular and immunological basis of pulmonary diseases - Immunological function of alveolar macrophages (rabbits, sheep, mice)
P01HL-16769-05 0010 Pathobiologic and host defense reactions in the lung - Bronchus associated lymphoid tissue and delayed hypersensitivity (rabbits)
P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
P01HL-18646-03 0002 Studies basic to heart transplantation - Detection of rejection (dogs)
P01HL-18646-03 0004 Studies basic to heart transplantation - Presensitization--Detection, incidence and clinical significance
P01HL-18646-03 0006 Studies basic to heart transplantation - Reduction or elimination of existing presensitization (human, animals)
P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
P01HL-19717-02 0041 Response of the lung to injury - Cellular immunity in interstitial lung disease (human)
R01HL-19741-03 Murine CRD--A model of chronic pulmonary inflammation (mice, rats)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
R01HL-20095-03 Role of lymphokines and monocytes in lung fibrosis (human, guinea pigs, rats)
R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)
R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)
R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)
R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)
R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)

BLOOD CELLS, T LYMPHOCYTES

** P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
** P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease - Mitogenic and antigenic activation of lymphocyte sub-populations
P01HL-06370-17 0001 Cardiopulmonary and renal pathology research center - The humoral and cellular mechanisms of allograft rejection (monkeys)
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
P01HL-06370-17 0018 Cardiopulmonary and renal pathology research center - Cytochemistry and immunology of lymphoproliferative disorders (human)
R01HL-08696-15 0019 Orthotopic heart transplantation - Suppressor cell stimulation (dogs, mice)
P01HL-13108-09 0003 Clinical heart transplantation - Endomyocardial biopsy pathology
** P01HL-13108-09 0012 Clinical heart transplantation - Human T cell sheep erythrocyte receptors
P01HL-13108-09 0015 Clinical heart transplantation - Antithymocyte globulin analysis and clinical effects
P50HL-14212-07 0014 Correlated studies of pulmonary fibrosis - Pulmonary lavage cells, secretions in diffuse intersititial lung disease (human)
P50HL-15061-07 0006 Response of lung to injury - Complement synthesis by pulmonary macrophages (guinea pigs, human)
P60HL-16008-06 0019 Wayne State University comprehensive sickle cell center - Cell mediated immunity in sickle cell anemia (human)
R01HL-16651-05 Evaluation of steroid therapy in sarcoidosis (human)
P01HL-16748-05 0002 Cellular and immunological basis of pulmonary diseases - Immunological function of alveolar macrophages (rabbits, sheep, mice)
P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung - Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
P01HL-16769-05 0010 Pathobiologic and host defense reactions in the lung - Bronchus associated lymphoid tissue and delayed hypersensitivity (rabbits)
R01HL-17404-05 Immunologic mechanisms in heart disease (mice)
P01HL-17417-05 0003 Experimental lung transplantation - Methods for detecting lung allograft rejection (dogs)
P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
P01HL-18646-03 0004 Studies basic to heart transplantation - Presensitization--Detection, incidence and clinical significance
P01HL-18646-03 0006 Studies basic to heart transplantation - Reduction or elimination of existing presensitization (human, animals)
P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
P01HL-19717-02 0041 Response of the lung to injury - Cellular immunity in interstitial lung disease (human)
R01HL-19741-03 Murine CRD--A model of chronic pulmonary inflammation (mice, rats)
R01HL-19760-01 Cellular immune responses of the lung (mice, guinea pigs)
R01HL-19774-03 Pathogenesis of chronic lung disease (rats, mice, bacteria)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
R01HL-20095-03 Role of lymphokines and monocytes in lung fibrosis (human, guinea pigs, rats)
R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)
R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)
R01HL-21829-01 Etiology of obstructive airway disease in children (also monkeys)
R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)
R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)
R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)

BLOOD CELLS, T LYMPHOCYTES, HELPER

R23HL-21089-02 Localization of mediators in dispersed lung cells (guinea pigs, human)

BLOOD CELLS, T LYMPHOCYTES, KILLER

P60HL-16008-06 0019 Wayne State University comprehensive sickle cell center - Cell mediated immunity in sickle cell anemia (human)
P01HL-18646-03 0003 Studies basic to heart transplantation - Host responses to xenografts (rodents, rabbits)

BLOOD CELLS, T LYMPHOCYTES, SUPPRESSOR

R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)

BLOOD CELLS, MONOCYTES

P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease - Mitogenic and antigenic activation of lymphocyte sub-populations
R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
P50HL-15061-07 0009 Response of lung to injury - Alveolar macrophages (human, rabbits)
P60HL-16005-05 0020 Comprehensive sickle cell center - Studies of the immunologic defect in sickle cell anemia (human)
R01HL-17581-03 Patent ductus arteriosus and pulmonary hypertension (dogs)
P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
R01HL-19731-03 Collagen in interstitial fibrosis of lung (human)
R01HL-19732-03 Lymphokines in pulmonary granulomatous inflammation (mice)
** R01HL-20095-03 Role of lymphokines and monocytes in lung fibrosis (human, guinea pigs, rats)
** R01HL-20807-02 Detection of familial hypercholesterolemia (human)
** R01HL-22474-01 Cholesterol metabolism and atherosclerosis (rats, human, rabbits)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)

BLOOD CENTERS

SEE BLOOD PRESERVATION, BLDDD BANKS, CENTERS-RESOURCES-REGISTRIES

BLOOD-CEREBROSPINAL FLUID BARRIER

SEE CEREBRDVASCULAR SYSTEM, BLDDD-CEREBRDSPINAL FLUID BARRIER

BLOOD CHEMISTRY

SEE CHEMISTRY, CLINICAL, BLDDD

BLOOD CIRCULATION DYNAMICS

SEE CARDIDVASCULAR FUNCTIDN, BLDDD CIRCULATIDN DYNAMICS (GENERAL)

BLOOD CIRCULATION TIME

SEE CARDIOVASCULAR FUNCTIDN, BLDDD CIRCULATIDN TIME

BLOOD CIRCULATORY SYSTEMS

SEE ADRENAL CIRCULATIDN
SEE CARDIOVASCULAR SYSTEM
SEE CEREBRDVASCULAR SYSTEM
SEE EYE CIRCULATIDN
SEE GASTRDINTESTINAL CIRCULATIDN
SEE KIDNEY CIRCULATION
SEE LIVER CIRCULATIDN
SEE RESPIRATDRY CIRCULATIDN

BLOOD COAGULATION

SEE ALSD BLDDD PLATELETS
SEE ALSO BLOOD STASIS
SEE ALSD CARDIDVASCULAR DISORDERS, EMBDLISM
SEE ALSD CARDIOVASCULAR DISDRDERS, HEMDRRHAGE
SEE ALSD CARDIOVASCULAR DISDRDERS, THRDMBDSIS
SEE ALSO VITAMIN K
N01HB-22919-08 Hemoglobin carbamylation in the treatment of sickle cell anemia (human, dogs)
** R01HL-01662-25 Equilibria in the fibrinogen-fibrin conversion (human, cattle)
P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
** R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
** R01HL-13198-21 Blood coagulation--Physico-chemical properties (human, cattle)
P01HL-13737-07 0026 Assisted circulation - Hemostatic mechanism (human, dogs)
P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
P01HL-13738-08 0004 Cardiac assist devices and artificial hearts - Hematological evaluation of prosthetic materials (calves)
M P50HL-14147-08 Specialized center of research in thrombosis
** P50HL-14147-08 0013 Specialized center of research in thrombosis - Mathematical models of blood coagulation kinetics
** P50HL-14147-08 0014 Specialized center of research in thrombosis - Theoretical models for electrostatic effects in blood clot formation
P50HL-14147-08 0015 Specialized center of research in thrombosis - Charge related properties of phospholipid surfaces in monolayers and vesicles
P50HL-14147-08 0016 Specialized center of research in thrombosis - Nuclear medicine core laboratory (human, dogs, rats, rabbits)
** P50HL-14147-08 0017 Specialized center of research in thrombosis - Core coagulation laboratory (human)
** P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activity (human)
P01HL-15195-04 0004 Program project in biological materials - Biological evaluation and surface interaction studies (dogs)
M P01HL-15486-06 Studies on thrombosis
P01HL-15486-06 0003 Studies on thrombosis - Mechanism and prevention of fibrinopeptide B degradation (human)
P01HL-15486-06 0004 Studies on thrombosis - Thrombosis, intravascualr coagulation, platelet aggregation (dogs)
** R01HL-15491-06 Blood coagulation--Platelet-plasma protein interaction (human)
** R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
** R01HL-15887-05 Enzymes of blood coagulation and fibrinolysis (human)
R01HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin
** P60HL-15996-06 0001 Cincinnati comprehensive sickle cell center - Coagulation mechanisms in sickle cell disease (human)
** R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
M P01HL-16411-04 Blood systems in coagulation and vessel disease
** P01HL-16411-04 0001 Blood systems in coagulation and vessel disease - Molecular studies of the role of complement in blood coagulation (human, rabbits)
R01HL-16582-05 Artificial lungs (dogs)
** R01HL-16919-05 Proteins of blood coagulation (human, bovine)
** R01HL-16955-05 Heparin, blood coagulation and lipid metabolism (human)
M P01HL-17430-05 Control of coagulation
P01HL-17430-05 0001 Control of coagulation - Porcine von Willebrand's disease
P01HL-17430-05 0002 Control of coagulation - Isolation of ristocetin--von Willebrand factor (swine)
P01HL-17430-05 0005 Control of coagulation - The activation of prothrombin (human, cattle, dogs)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-17503-03 Vascular bubbles in decompression sickness (minipig, dog, goat)
R01HL-17525-03 Molecular basis of collagen-platelet interaction (human, rat)
** R01HL-17769-03 New methods of studying blood coagulation kinetics
M P01HL-17812-04 Thrombosis and plasma proteins
** P01HL-17812-04 0005 Thrombosis and plasma proteins in vitro systems of normal platelets, white cells, sera (human)
M P01HL-18576-03 Thrombosis research program project
P01HL-18576-03 0011 Thrombosis research program project - Proteolysis and platelet function (human, cattle, rabbits)
P01HL-18576-03 0014 Thrombosis research program project - Immunology core
M P50HL-18828-03 Specialized center of research in thrombosis
** P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
** P50HL-18828-03 0008 Specialized center of research in thrombosis - Biochemistry, physiology--Platelets and subcellular platelet particles (human)
** P50HL-18828-03 0009 Specialized center of research in thrombosis - Platelet formation and megakaryocyte cell biology (guinea pig, human)
** R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
R01HL-19982-02 Blood coagulation--Protein-metal ion-lipid interactions
R01HL-20079-02 0003 Thromboresistant material - Blood surface interactions (human, cattle)
** R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
R01HL-20577-03 The mechanism of action of vitamin K
R01HL-20818-02 Platelet storage at 22 degrees C (human)
R23HL-21490-02 Studies of enzymes in human platelet membranes
** R01HL-21540-02 Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs)
R01HL-21769-01 Blood compatible benzamidine containing polymers
R01HL-22270-01 Platelet glycoprotein (human)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
** R01HL-22771-01 Thrombogenic phospholipid surfaces (cattle)
R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)

BLOOD COAGULATION, ACTIVATION PRODUCT

SEE ALSO BLOOD COAGULATION, FACTOR XI
SEE ALSO BLOOD COAGULATION, HAGEMAN FACTOR
R01HL-13423-08 Structure-function studies of plasminogen and plasmin (human)
** R01HL-15817-06 Plasminogen activators from tissues (human, pig, cattle)
R01HL-16633-04 Chemistry and biology of factor IX activator (human, mice, rats)
R01HL-17402-04 Mechanism of contact activation of intrinsic clotting (human)
** R01HL-18859-03 Biochemistry of human factor XI (human)
R01HL-20846-02 Purification of bovine plasminogen proactivator
R01HL-21592-01 Lipoproteins and coagulation factors in atherosclerosis (pigeons)

BLOOD COAGULATION, ANTICOAGULANTS

SEE ALSO BLOOD COAGULATION, ANTITHROMBIN
SEE ALSO BLOOD COAGULATION, HIRUDIN
SEE ALSO BLOOD COAGULATION, THROMBOPOIESIS INHIBITORS
R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
R01HL-01661-27 Hemostatic mechanisms (human)
** R01HL-02212-23 Coagulation of blood (human)
R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
P01HL-06312-17 0030 Surgical cardiology - Total artificial heart (calves)
P01HL-06350-17 0018 Hemostasis research program project - Varients of factors IX (human, cattle)
R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
R01HL-09163-13 Control mechanisms in hemostasis (human)
** R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
** P01HL-11310-12 0103 Mechanisms of cardiovascular disease - Heparin--Metabolism and function
P01HL-11414-11 0033 Thrombosis and atherosclerosis program - Human coumarin-induced prothrombin
** P01HL-11414-11 0035 Thrombosis and atherosclerosis program - Mechanism of action of vitamin K (rats)
R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
R01HL-13587-06 Synthesis of renin inhibitors and analog phosphatides (rats)
P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
P01HL-13738-08 0003 Cardiac assist devices and artificial hearts - Pathophysiological effects of the artificial heart (calves)
R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
P50HL-14187-07 0008 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary thromboembolism (dogs, human)
R01HL-14739-06 The role of leukocytes in thrombotic disease (human, dogs)
** R01HL-14847-07 Mechanism of action of vitamin K and anticoagulants (rats)
R01HL-14992-07 Mechanism of thrombin action (human)
P01HL-15596-05 0017 Coagulation, fibrinolysis, hemostasis and hepatitis - Heparin and antithrombin III
R01HL-15619-05 Regulation of prothrombin synthesis in cultured cells (rats)
** R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
R01HL-16461-05 Late results of valve replacement--Computer analysis (human)
R01HL-16582-05 Artificial lungs (dogs)
R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
R01HL-16919-05 Proteins of blood coagulation (human, bovine)
R01HL-16955-05 Heparin, blood coagulation and lipid metabolism (human)
P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)
R01HL-17408-03 Fresh blood rheology--Relation to cardiovascular risk (human)
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)
R01HL-17513-04 Role of PF-4 in detecting and promoting thrombosis (human, primates)
R01HL-17726-03 Bacterial heparinase in diagnostic coagulation studies
R01HL-17747-04 Endothelial injury and regeneration (rats)
R01HL-17752-03 Purified human clotting factor IX--Immunologic studies (human)
R01HL-17964-04 The alternate pathway for fibrinolysis (human)
** R01HL-18068-02 Chemistry and activity of homologous heparin fractions (rodents)
** R01HL-18245-03 Transition state analog inhibitors of thrombin (human, cattle)
P01HL-18576-03 0003 Thrombosis research program project - Biocompatible materials
P01HL-18576-03 0010 Thrombosis research program project - Evaluation of non-thrombogenic materials (cattle)
** P01HL-18576-03 0012 Thrombosis research program project - Synthetic anticoagulant and thrombolytic agents (dogs)
P01HL-18576-03 0013 Thrombosis research program project - Early warning and monitoring test systems in thrombotic disease (human)
R01HL-18590-03 Cerebral blood flow after cardiac arrest (dogs, monkeys)
R01HL-18625-03 Organization of arterial ground substance (cattle)
R01HL-18672-03 Dynamic studies of clot structure formation (human)
R01HL-18738-02 Prevention of postoperative venous thrombi (human, cattle)
R01HL-18764-03 Biosorbable thromboresistant surfaces (dogs, rats, swine, human)
R01HL-18815-03 Surgical vascular disorders (human, dogs)
R01HL-19105-02 Detection and adherence of fibrin monomer complexes (human)
P50HL-19155-02 0004 Pathophysiology of pulmonary edema - Physical and chemical effects of multiple pulmonary emboli (sheep)
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
R01HL-19322-03 Role of pituitary hormones in the action of vitamin K (rats)
R01HL-19331-03 Hirudin isolation and utilization (leeches)
R01HL-19350-02 Prevention of thrombosis by applied electric fields (sheep)
R01HL-19772-02 Role of warfarin metabolism in antivitamin K activity (rats)
R01HL-19820-02 The chemistry and biological effects of heparin (Rhesus, human, other mammals)
R01HL-20073-02 Blood compatible materials by fluid perfusion (human, dogs)
R01HL-20577-03 The mechanism of action of vitamin K
R01HL-21139-02 Molecular biology of factor XIII (human)
R23HL-21271-02 Extracorporeal circulation and protein denaturation (human)
R01HL-21403-02 Blood clotting kinetics studied by radioimmunoassay (human)
** R01HL-21476-02 Anticoagulant drug absorption interactions (rats)
R01HL-21540-02 Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs)
R01HL-21544-02 Proteins of coagulation and Hageman factor pathways (human, goats)
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
R01HL-21763-09 Heparin and heparan sulfate--Structure and activity (baet, hog)
** R01HL-22035-01 Molecular modification of heparin by chemical means (sheep)
R01HL-22119-01 Biochemistry of platelet function in thrombosis and cell growth (rabbits)
** R01HL-22227-01 A new source of hyaluronidase and anticoagulants (leeches)
R01HL-22402-01 Heparin-biophysical, chemical and biological aspects (mice, human)
R01HL-22980-01 Kinetic and mechanistic studies of blood coagulation (human, cattle)
R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces
** N01HV-32919-12 Material development and testing heparinization processes
N01HV-72939-01 Develop and evaluate left heart assist blood pumps (human, calves, pigs)

BLOOD COAGULATION, ANTICOAGULANTS, PLATELET AGGREGATION INHIBITORS

P01HL-06350-17 0019 Hemostasis research program project - Microcirculation (human, rats, rabbits)
R01HL-08888-12 Cooperative study of drugs and coronary heart disease (men)
R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)
P01HL-11414-11 0004 Thrombosis and atherosclerosis program - Platelet function and nonthrombogenic surfaces (human)
** R01HL-11775-11 Platelet mechanisms in disease (human, primates)
R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
R01HL-13629-08 Hemorrhagic diseases (human)
P50HL-14147-08 0001 Specialized center of research in thrombosis - Role of aspirin, other anti-platelet agents in platelet function (rat, human)
P50HL-14217-08 0054 Specialized center of research in thrombosis - Coagulation section--Platelet aggregation (human, pig, rabbit, dog)
P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activity (human)
** P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
P50HL-14217-08 0062 Specialized center of research in thrombosis - Coagulation section--Factor VIII and Factor XII (human, cattle)
P50HL-14230-07 0097 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)
** R01HL-14344-07 Platelet function and adenine nucleotide metabolism (human)
R01HL-15374-03 Cooperative study of drugs and coronary heart disease (human)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
P01HL-16387-04 0005 The blood vessel and thrombogenesis - Fluid engineering considerations in thrombogenesis
R01HL-16582-05 Artificial lungs (dogs)
** R01HL-16720-02 Platelet aggregation (human)
P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)
P01HL-17430-05 0007 Control of coagulation - Platelet adhesion, aggregation, ultrastructure in flowing blood (human, animals)
P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
R01HL-17747-04 Endothelial injury and regeneration (rats)
R01HL-17921-04 Peroxy radicals to prostaglandins in vessels and lung
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
R01HL-18502-03 Enzymatic regulation of platelet function (human)
P01HL-18576-03 0003 Thrombosis research program project - Biocompatible materials
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
P01HL-18576-03 0010 Thrombosis research program project - Evaluation of non-thrombogenic materials (cattle)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

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R01HL-18644-03 Prosthesis for aortocoronary bypass (dogs, baboons)
** P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
R01HL-18764-03 Biosorbable thromboresistant surfaces (dogs, rats, swine, human)
P01HL-18827-02 0003 Platelet vessel wall interactions in thrombogenesis - Tumor cell and platelets in thrombogenesis and metastasis (human, animals)
P01HL-18827-02 0005 Platelet vessel wall interactions in thrombogenesis - Platelet vessel wall interactions in thrombogenesis (human)
P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
** R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)
R01HL-18937-03 Cyclic nucleotides and calcium in platelets (human)
R01HL-19001-03 Atherosclerosis in bleeder and drug treated subjects (pigs)
R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
** R01HL-19112-03 Atherosclerosis studies (monkeys)
R01HL-19278-03 Ristocetin induced platelet aggregation (human)
R01HL-19996-02 Role of membrane proteins in platelet function (human, rabbits)
** R01HL-20140-02 Glycoproteins of platelet membrane and platelet function (human)
** R01HL-20251-02 A novel approach to nonthrombogenic polymer surfaces (sheep, cattle)
R01HL-20313-02 Surface-induced thrombosis--Modification of albumin variants (human, goat)
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
** R01HL-21533-02 Platelet inhibitor drug in coronary surgery (human)
P01HL-22163-01 0003 Surface thrombogenesis--Mechanisms and prevention - In vivo mechanisms of biomaterial thrombogenesis and its prevention (baboons)
** R01HL-22445-01 Platelet inhibitors--Effect on coronary bypass grafts (dogs)
R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
R01HL-22612-01 Stabilized prostacyclins to treat vascular disease
** R01HL-22627-01 An inhibitor of platelet adhesion to artificial organs (human)
** R01HL-22951-01 Studies on the affect of vitamin E on platelets (human, rats)
R01HL-23114-01 Control of platelet aggregation in shock (dogs, rabbits)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)
** N01HV-42984-05 Interactions of modified biopolymers with blood (humans, rats)
N01HV-52901-06 Aspirin-myocardial infarction study
N01HV-52941-04 Center for aspirin-myocardial infarction study (human)

BLOOD COAGULATION, ANTIFIBRINOLYTIC AGENTS

P50HL-14217-08 0049 Specialized center of research in thrombosis - Fibrinolysis section--Clinical studies
P01HL-15596-05 0001 Coagulation, fibrinolysis, hemostasis and hepatitis - Defibrination (human)
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
R01HL-20846-02 Purification of bovine plasminogen proactivator
R01HL-21540-02 Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs)
R01HL-22289-01 Endothelial cell mediated fibrinolysis (rabbits)
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)

BLOOD COAGULATION, ANTITHROMBIN

SEE ALSO BLOOD COAGULATION, FIBRIN
SEE ALSO BLOOD COAGULATION, HEPARIN CO-FACTOR
** R01HL-02262-23 Mechanisms regulating plasma proteins and solutes (human, dogs)
R01HL-03424-21 Formation and properties of prothrombin derivatives (human, animals)
R01HL-04366-19 Plasminogen--Activation and structure-function relations (mammals, birds)
R01HL-09739-13 Biophysical studies of proteins (human)
P01HL-11310-12 0103 Mechanisms of cardiovascular disease - Heparin--Metabolism and function
R01HL-12820-09 In vitro regulation of prothrombin activation
R01HL-13160-08 Human thrombin (also cattle)
** R01HL-14992-07 Mechanism of thrombin action (human)
** P01HL-15596-05 0017 Coagulation, fibrinolysis, hemostasis and hepatitis - Heparin and antithrombin III
R01HL-15887-05 Enzymes of blood coagulation and fibrinolysis (human)
** R01HL-16238-05 Protein structure in coagulation and fibrinolysis (human)
R01HL-16355-05 Reactions of thrombin and collagen with platelets (human)
** R01HL-16919-05 Proteins of blood coagulation (human, bovine)
R01HL-16955-05 Heparin, blood coagulation and lipid metabolism (human)
R01HL-17513-04 Role of PF-4 in detecting and promoting thrombosis (human, primates)
P01HL-17812-04 0004 Thrombosis and plasma proteins - Serum-platelet interaction (human)
R01HL-18333-05 Thrombogenesis and hemostatic balance (rabbits, human)
P01HL-18576-03 0011 Thrombosis research program project - Proteolysis and platelet function (human, cattle, rabbits)
P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
** R01HL-19131-04 Hypercoagulability and assays for its protection (human)
** R01HL-20337-02 Thromboembolic diseases (human)
** R01HL-21113-01 Control mechanisms in coagulation (cattle)
R01HL-21403-02* Blood clotting kinetics studied by radioimmunoassay (human)
R01HL-22035-01 Molecular modification of heparin by chemical means (sheep)
R01HL-22119-01 Biochemistry of platelet function in thrombosis and cell growth (rabbits)
R01HL-22227-01 A new source of hyaluronidase and anticoagulants (leeches)
R01HL-22471-01 Biochemistry of prothrombin quick (human)
R23HL-22799-01 Interaction of the complement and coagulation systems (monkeys)
R01HL-22996-01 Venom proteases--Action on plasma protease inhibitors (human)

BLOOD COAGULATION, ANTITHROMBOGENIC SURFACE

R01HL-01648-31 Blood coagulation and hemophilia (dogs, swine)
P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
** P01HL-11414-11 0004 Thrombosis and atherosclerosis program - Platelet function and nonthrombogenic surfaces (human)
R01HL-11775-11 Platelet mechanisms in disease (human, primates)
R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
M P01HL-13330-08 Mechanical circulatory support
P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and evaluation of left ventricular bypass pumps (human, cattle)
** P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
R01HL-13426-09 Left ventricular bypass for myocardial infarction (cattle, human)
** P01HL-13737-07 0002 Assisted circulation - U-shaped mechanical auxiliary ventricle (dogs)
P01HL-13737-07 0032 Assisted circulation - The dynamic aortic patch (human, dogs)
P01HL-13738-08 0004 Cardiac assist devices and artificial hearts - Hematological evaluation of prosthetic materials (calves)
P50HL-14147-08 0003 Specialized center of research in thrombosis - Surface thrombogenicity and phospholipid vesicle physical properties
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
P01HL-15195-04 0004 Program project in biological materials - Biological evaluation and surface interaction studies (dogs)
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
P60HL-17269-04 0030 National heart and blood vessel research and demonstration center - Cardiovascular engineering laboratories (human)
P01HL-17430-05 0007 Control of coagulation - Platelet adhesion, aggregation, ultrastructure in flowing blood (human, animals)
** R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
R01HL-18084-03 Artificial heart and related problems (calves)
R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)
M P01HL-18576-03 Thrombosis research program project
** P01HL-18576-03 0003 Thrombosis research program project - Biocompatible materials
** P01HL-18576-03 0010 Thrombosis research program project - Evaluation of non-thrombogenic materials (cattle)
R01HL-18644-03 Prosthesis for aortocoronary bypass (dogs, baboons)
P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
** R01HL-18764-03 Biosorbable thromboresistant surfaces (dogs, rats, swine, human)
R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
R01HL-19350-02 Prevention of thrombosis by applied electric fields (sheep)
** R01HL-19419-03 Cellular interactions with foreign materials (mammals)
** R01HL-20073-02 Blood compatible materials by fluid perfusion (human, dogs)
M R01HL-20079-02 Thromboresistant material
** R01HL-20079-02 0001 Thromboresistant material - Active and passive thromboresistant surfaces
** R01HL-20079-02 0002 Thromboresistant material - Thromboresistant materials (sheep)
R01HL-20079-02 0003 Thromboresistant material - Blood surface interactions (human, cattle)
** R01HL-20251-02 A novel approach to nonthrombogenic polymer surfaces (sheep, cattle)
** R01HL-20313-02 Surface-induced thrombosis--Modification of albumin variants (human, goat)
R01HL-20356-02 Development and evaluation of an artificial heart (calves)
** R01HL-21001-01 Protein and thrombus deposition on vascular grafts
** R01HL-21194-02 Development of antithrombogenic plastic biomaterials
R23HL-21271-02 Extracorporeal circulation and protein denaturation (human)
R23HL-21805-01 Tissue cell interactions with vascular prostheses (human, rats, mice)
R01HL-22110-02 Healing complications in vascular grafting (dogs)
M P01HL-22163-01 Surface thrombogenesis--Mechanisms and prevention
** P01HL-22163-01 0001 Surface thrombogenesis--Mechanisms and prevention - Initial blood protein and platelet interactions with biomaterials (baboons)
** P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)
** P01HL-22163-01 0003 Surface thrombogenesis--Mechanisms and prevention - In vivo mechanisms of biomaterial thrombogenesis and its prevention (baboons)
** P01HL-22163-01 9001 Surface thrombogenesis--Mechanisms and prevention - Polymers for studing blood-material interactions core
R01HL-22338-01 Platelet adhesion and aggregation in a flow chamber (human)
R01HL-22455-01 Platelet concentration in the marginal layer (dogs, human)
R01HL-22585-01 Plasma proteins adsorbed to artificial organs (human, rabbits)
** R01HL-22627-01 An inhibitor of platelet adhesion to artificial organs (human)
** R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces
N01HV-12060-18 Tissue cultured endothelium for vascular prosthetic devices (human, animals)
N01HV-32919-12 Material development and testing heparinization processes
** N01HV-32950-08 Blood compatible poly-electrolytes
** N01HV-32953-10 Materials compatible with blood (dogs)
N01HV-52907-04 Interactions of platelets with collagens (human, mammals)
N01HV-72934-01 Development of a left heart assist blood pumps (human, cattle)
N01HV-72936-00 Left heart assist device development (human, cattle)
N01HV-72938-01 Development of a left heart assist blood pump
N01HV-72939-01 Develop and evaluate left heart assist blood pumps (human, calves, pigs)
N01HV-81388-20 Microfiber substrate for growth of intimal linings in circulatory assist devices

BLOOD COAGULATION, CLOT RETRACTION

R01HL-16938-05 Effect of physical forces on blood (dogs, human)
M P01HL-17812-04 Thrombosis and plasma proteins
** P01HL-17812-04 0004 Thrombosis and plasma proteins - Serum-platelet interaction (human)
P01HL-17812-04 0005 Thrombosis and plasma proteins - In vitro systems of normal platelets, white cells, sera (human)
R01HL-18030-04 The role of contractile proteins in platelets (human, rabbits)
R01HL-20106-02 Coupling of platelet contractile proteins to fibrin (human)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

BLOOD COAGULATION, CLOTTING FACTORS (GENERAL)

** R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-12820-09 In vitro regulation of prothrombin activation
** P50HL-14147-08 0018 Specialized center of research in thrombosis - Biochemical aspects of platelet function in thrombosis and cell growth (human)
P50HL-14217-08 0054 Specialized center of research in thrombosis - Coagulation section--Platelet aggregation (human, pig, rabbit, dog)
** P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activity (human)
R01HL-14847-07 Mechanism of action of vitamin K and anticoagulants (rats)
R01HL-14992-07 Mechanism of thrombin action (human)
** R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
P60HL-15996-06 0001 Cincinnati comprehensive sickle cell center - Coagulation mechanisms in sickle cell disease (human)
P60HL-17265-04 0003 Community blood resource center support - Research--Human factor IX--Role in intrinsic clotting (also baboons, dogs)
P60HL-17265-04 0007 Community blood resource center support - Research--Massive transfusion and trauma (human)
** R01HL-17402-04 Mechanism of contact activation of intrinsic clotting (human)
** R01HL-18672-03 Dynamic studies of clot structure formation (human)
R01HL-18859-03 Biochemistry of human factor XI (human)
P50HL-19155-02 0004 Pathophysiology of pulmonary edema - Physical and chemical effects of multiple pulmonary emboli (sheep)
** R01HL-19272-03 Studies on the Passovoy factor (human)
R01HL-20313-02 Surface-induced thrombosis--Modification of albumin variants (human, goat)
R01HL-21001-01 Protein and thrombus deposition on vascular grafts
** R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)
** R01HL-21544-02 Proteins of coagulation and Hagemen factor pathways (human, goats)
** R01HL-21592-01 Lipoproteins and coagulation factors in atherosclerosis (pigeons)
** R01HL-22530-01 Active site studies on blood proteases (human)
R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces

BLOOD COAGULATION, CRYOFIBRINOGEN

P50HL-14147-08 0006 Specialized center of research in thrombosis - Clearance mechanisms of coagulation moieties (human, rabbits, rodents)
P01HL-17419-04 0001 Studies on mechanisms of hemostasis - Structure and metabolism of fibrinogen (human)

BLOOD COAGULATION, FACTOR V

R01HL-03424-21 Formation and properties of prothrombin derivatives (human, animals)
R01HL-12820-09 In vitro regulation of prothrombin activation
** P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
P50HL-14147-08 0013 Specialized center of research in thrombosis - Mathematical models of blood coagulation kinetics
** P01HL-15596-05 0018 Coagulation, fibrinolysis, hemostasis and hepatitis - Increased plasma lipids on blood coagulation and thrombosis (human, animals)
P01HL-17430-05 0005 Control of coagulation - The activation of prothrombin (human, cattle, dogs)
P01HL-17430-05 0006 Control of coagulation - Activation fragments of prothrombin in vitro and in vivo (human, dogs, cattle)
P01HL-17812-04 0004 Thrombosis and plasma proteins - Serum-platelet interaction (human)
** R01HL-18435-03 Properties of thrombin and Ac-globulin (human, animals)
** P01HL-18827-02 0007 Platelet vessel wall interactions in thrombogenesis - Biochemistry and role factor V in thrombogenesis (human, cattle)
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
P50HL-18828-03 0002 Specialized center of research in thrombosis - Endothelial cell biology (human, guinea pig)
R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
** R01HL-18852-03 Biochemical studies on the blood coagulation process (human, cattle)
R01HL-19131-04 Hypercoagulability and assays for its protection (human)
R01HL-21403-02 Blood clotting kinetics studied by radioimmunoassay (human)
R01HL-22471-01 Biochemistry of prothrombin quick (human)
R23HL-22799-01 Interaction of the complement and coagulation systems (monkeys)
R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)
R01HL-22955-01 Inetics of prothrombin activation

BLOOD COAGULATION, FACTOR VII

P01HL-15596-05 0016 Coagulation, fibrinolysis, hemostasis and hepatitis - Hepatitis B antigen in whole blood, plasma and plasma fractions (human, monkeys)
P01HL-15596-05 0017 Coagulation, fibrinolysis, hemostasis and hepatitis - Heparin and antithrombin III
** P01HL-15596-05 0018 Coagulation, fibrinolysis, hemostasis and hepatitis - Increased plasma lipids on blood coagulation and thrombosis (human, animals)
R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
** R01HL-16919-05 Proteins of blood coagulation (human, bovine)
R01HL-16955-05 Heparin, blood coagulation and lipid metabolism (human)
** P01HL-18576-03 0009 Thrombosis research program project - Biology of factor VII (human, rabbits, cattle)
R01HL-19772-02 Role of warfarin metabolism in antivitamin K activity (rats)
R01HL-19982-02 Blood coagulation--Protein-metal ion-lipid interactions
** R01HL-21113-01 Control mechanisms in coagulation (cattle)
R01HL-22530-01 Active site studies on blood proteases (human)
R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)
** R01HL-22980-01 Kinetic and mechanistic studies of blood coagulation (human, cattle)

BLOOD COAGULATION, FACTOR VIII

SEE ALSO BLOOD COAGULATION DISORDERS, HEMOPHILIA
** N01HB-53016-05 Cooperative study of factor VIII inhibitors in patients with hemophilia
** N01HB-53018-04 Cooperative studies of factor VIII inhibitors in patients with hemophilia
** N01HB-53019-06 Cooperative study of factor VIII inhibitors in patients with hemophilia
** N01HB-53020-04 Cooperative study of factor VIII inhibitors in patients with hemophilia
** N01HB-53021-05 Cooperative study of factor VIII inhibitors in patients with hemophilia
** N01HB-53023-04 Cooperative study of factor VIII inhibitors in patients with hemophilia
** N01HB-53024-04 Cooperative studies of factor VIII inhibitors in patients with hemophilia
** N01HB-53025-05 Cooperative studies of factor VIII inhibitors in patients with hemophilia
** N01HB-53035-04 Factor VIII inhibitors in patients with hemophilia
** R01HL-01648-31 Blood coagulation and hemophilia (dogs, swine)
** R01HL-01661-27 Hemostatic mechanisms (human)
R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel disease--Cell and matrix response (human, mice)
** P01HL-06350-17 0005 Hemostasis research program project - Purification of plasma antihemophilic factor (human)
P01HL-06350-17 0015 Hemostasis research program project - Genetics (human)
P01HL-06350-17 0018 Hemostasis research program project - Varients of factors IX (human, cattle)
** R01HL-09163-13 Control mechanisms in hemostasis (human)
R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
** P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
R01HL-13629-08 Hemorrhagic diseases (human)
P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activity (human)
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
** P50HL-14217-08 0062 Specialized center of research in thrombosis - Coagulation section--Factor VIII and Factor XII (human, cattle)
** P50HL-14230-07 0098 A/S SCOR--Lipids, atherosclerosis and thrombosis - Molecular properties of factor VIII (cattle, human, mice)
R01HL-14595-07 Primary disorders of platelet function (human, rats)
R01HL-14697-07 Role of platelet membranes in hemostasis (human)
R01HL-15230-05 Molecular basis of V Willebrand's disease and hemophilia (human, cattle)
** R01HL-15474-06 Structure and function of the antihemophilic factor (human, cattle)
R01HL-15491-06 Blood coagulation--Platelet-plasma protein interaction (human)
** P01HL-15596-05 0008 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of antihemophilic factor (human)
** P01HL-15596-05 0010 Coagulation, fibrinolysis, hemostasis and hepatitis - Von Willebrand's factor (human)
** P01HL-15596-05 0014 Coagulation, fibrinolysis, hemostasis and hepatitis - Von Willebrand factor and platelet retention in glass bead columns (swine)
** P01HL-15596-05 0018 Coagulation, fibrinolysis, hemostasis and hepatitis - Increased plasma lipids on blood coagulation and thrombosis (human, animals)
** R01HL-15615-06 Structure-function studies of human factor VIII/vWF
** P01HL-16387-04 0008 The blood vessel and thrombogenesis - Factor VIII in hemostasis (human, rabbits)
** P01HL-16411-04 0005 Blood systems in coagulation and vessel disease - Chemical analysis of serum components associated with coagulation (human, animal)
** P01HL-16411-04 0006 Blood systems in coagulation and vessel disease - Factor VII-Immunochemistry and immunobiology (human, mice)
** R01HL-16626-05 Studies of antibodies to antihemophilic factors (human, rabbits)
** R01HL-16872-04 Antihemophilic factor (human)
** R01HL-16919-05 Proteins of blood coagulation (human, bovine)
** P60HL-17265-04 0002 Community blood resource center support - Research--Human factor VIII
P60HL-17265-04 0007 Community blood resource center support - Research--Massive transfusion and trauma (human)
** P01HL-17430-05 0002 Control of coagulation - Isolation of ristocetin--von Willebrand factor (swine)
** P01HL-18576-03 0005 Thrombosis research program project - Molecular basis of von Willebrand's disease and hemophilia (human, cattle)
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
** P50HL-18828-03 0002 Specialized center of research in thrombosis - Endothelial cell biology (human, guinea pig)
R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
R01HL-18852-03 Biochemical studies on the blood coagulation process (human, cattle)
R01HL-19267-02 Serial comparative study of Von Willebrand's disease (human)
R01HL-19278-03 Ristocetin induced platelet aggregation (human)
** R01HL-20517-03 Diabetes, somatotropin, factor VIII and atherosclerosis (human, animal)
** R23HL-21208-02 Structure-function relationships of human factor VIII
** R01HL-21379-01 Structure of factor VIII-Von Willebrand protein (human)
R01HL-21403-02 Blood clotting kinetics studied by radioimmunoassay (human)
R01HL-21644-01 Fibronectin and related glycoproteins (human, rodents)
** R23HL-21730-01 vWagII--A new vWO deficient antigen (human)
R01HL-22266-01 Production of proteases by lung cells in culture (human, rodents, rabbits, sheep)
** R01HL-22355-01 Purification, structure and function of factor VIII (human)
R01HL-22471-01 Biochemistry of prothrombin quick (human)
R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)
R01HL-22980-01 Kinetic and mechanistic studies of blood coagulation (human, cattle)

BLOOD COAGULATION, FACTOR IX

SEE ALSO BLOOD COAGULATION DISORDERS, CHRISTMAS DISEASE
R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
R01HL-03424-21 Formation and properties of prothrombin derivatives (human, animals)
** P01HL-06350-17 0018 Hemostasis research program project - Varients of factors IX (human, cattle)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
P50HL-14147-08 0017 Specialized center of research in thrombosis - Core coagulation laboratory (human)
R01HL-15230-05 Molecular basis of V Willebrand's disease and hemophilia (human, cattle)
P01HL-15596-05 0016 Coagulation, fibrinolysis, hemostasis and hepatitis - Hepatitis-B antigen in whole blood, plasma and plasma fractions (human, monkeys)
P01HL-15596-05 0017 Coagulation, fibrinolysis, hemostasis and hepatitis - Heparin and antithrombin III
R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
P01HL-16387-04 0002 The blood vessel and thrombogenesis - Hormonal effects on thrombogenesis (rats, rabbits)
** R01HL-16633-04 Chemistry and biology of factor IX activator (human, mice, rats)
** R01HL-16919-05 Proteins of blood coagulation (human, bovine)
R01HL-16955-05 Heparin, blood coagulation and lipid metabolism (human)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P60HL-17265-04 0003 Community blood resource center support - Research--Human factor IX--Role in intrinsic clotting (also baboons, dogs)
** R01HL-17752-03 Purified human clotting factor IX--Immunologic studies (human)
R01HL-18245-03 Transition state analog inhibitors of thrombin (human, cattle)
** P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
R01HL-19131-04 Hypercoagulability and assays for its protection (human)
** R01HL-19331-03 Hirudin isolation and utilization (leeches)
R01HL-19772-02 Role of warfarin metabolism in antivitamin K activity (rats)
R01HL-19982-02 Blood coagulation--Protein-metal ion-lipid interactions
R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
** R01HL-21113-01 Control mechanisms in coagulation (cattle)
** R01HL-21975-01 Studies on normal and abnormal factor IX (human, dogs, cows)
R01HL-22530-01 Active site studies on blood proteases (human)
R01HL-22980-01 Kinetic and mechanistic studies of blood coagulation (human, cattle)

BLOOD COAGULATION, FACTOR X

R01HL-03424-21 Formation and properties of prothrombin derivatives (human, animals)
P01HL-06350-17 0018 Hemostasis research program project - Varients of factors IX (human, cattle)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-12820-09 In vitro regulation of prothrombin activation
P50HL-14147-08 0003 Specialized center of research in thrombosis - Surface thrombogenicity and phospholipid vesicle physical properties
P50HL-14147-08 0013 Specialized center of research in thrombosis - Mathematical models of blood coagulation kinetics
P50HL-14147-08 0017 Specialized center of research in thrombosis - Core coagulation laboratory (human)
P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activity (human)
R01HL-15230-05 Molecular basis of V Willebrand's disease and hemophilia (human, cattle)
P01HL-15596-05 0014 Coagulation, fibrinolysis, hemostasis and hepatitis - Von Willebrand factor and platelet retention in glass bead columns (swine)
P01HL-15596-05 0016 Coagulation, fibrinolysis, hemostasis and hepatitis - Hepatitis-B antigen in whole blood, plasma and plasma fractions (human, monkeys)
P01HL-15596-05 0017 Coagulation, fibrinolysis, hemostasis and hepatitis - Heparin and antithrombin III
** P01HL-15596-05 0018 Coagulation, fibrinolysis, hemostasis and hepatitis - Increased plasma lipids on blood coagulation and thrombosis (human, animals)
R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
R01HL-15887-05 Enzymes of blood coagulation and fibrinolysis (human)
R01HL-16150-05 Primary structure of prothrombin (cattle, human)
** R01HL-16238-05 Protein structure in coagulation and fibrinolysis (human)
P01HL-16411-04 0003 Blood systems in coagulation and vessel disease - Molecular events involving the late stages of coagulation (rabbits)
** R01HL-16919-05 Proteins of blood coagulation (human, bovine)
R01HL-16955-05 Heparin, blood coagulation and lipid metabolism (human)
P01HL-17430-05 0005 Control of coagulation - The activation of prothrombin (human, cattle, dogs)
P01HL-17812-04 0004 Thrombosis and plasma proteins - Serum-platelet interaction (human)
R01HL-18245-03 Transition state analog inhibitors of thrombin (human, cattle)
R01HL-18333-05 Thrombogenesis and hemostatic balance (rabbits, human)
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
P01HL-18827-02 0007 Platelet vessel wall interactions in thrombogenesis - Biochemistry and role factor V in thrombogenesis (human, cattle)
R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
R01HL-18852-03 Biochemical studies on the blood coagulation process (human, cattle)
R01HL-19131-04 Hypercoagulability and assays for its protection (human)
** R01HL-19282-03 Regulation of the activation of human factor X
** R01HL-19331-03 Hirudin isolation and utilization (leeches)
R01HL-19772-02 Role of warfarin metabolism in antivitamin K activity (rats)
R01HL-19982-02 Blood coagulation--Protein-metal ion-lipid interactions
** R01HL-21113-01 Control mechanisms in coagulation (cattle)
** R01HL-21403-02 Blood clotting kinetics studied by radioimmunoassay (human)
** R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)
R01HL-22530-01 Active site studies on blood proteases (human)
R01HL-22771-01 Thrombogenic phospholipid surfaces (cattle)
** R01HL-22955-01 inetics of prothrombin activation
R01HL-22980-01 Kinetic and mechanistic studies of blood coagulation (human, cattle)

BLOOD COAGULATION, FACTOR XI

** R01HL-01661-27 Hemostatic mechanisms (human)
P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activity (human)
P01HL-16411-04 0002 Blood systems in coagulation and vessel disease - Early stages of coagulation and cardiovascular disease (human, rabbits)
R01HL-16633-04 Chemistry and biology of factor IX activator (human, mice, rats)
** R01HL-16919-05 Proteins of blood coagulation (human, bovine)
R01HL-17402-04 Mechanism of contact activation of intrinsic clotting (human)
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
R01HL-18650-03 Platelet collagen interaction (human)
R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
** R01HL-18859-03 Biochemistry of human factor XI (human)
R01HL-19131-04 Hypercoagulability and assays for its protection (human)
R01HL-21544-02 Proteins of coagulation and Hageman factor pathways (human, goats)
R01HL-21975-01 Studies on normal and abnormal factor IX (human, dogs, cows)
R01HL-22530-01 Active site studies on blood proteases (human)
R01HL-22980-01 Kinetic and mechanistic studies of blood coagulation (human, cattle)

BLOOD COAGULATION, FIBRIN

R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
R01HL-01662-25 Equilibria in the fibrinogen-fibrin conversion (human, cattle)
R01HL-02212-23 Coagulation of blood (human)
P01HL-06350-17 0020 Hemostasis research program project - Structure and function of coagulant venom proteases
** P01HL-06835-17 0028 Cardiovascular disease - Studies in thrombosis-fibrinogen in fibrin transport (human)
R01HL-07379-13 Structure and function of fibrinogen (human)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
R01HL-13198-21 Blood coagulation--Physico-chemical properties (human, cattle)
R01HL-13596-07 Clearance of plasma proteins from alveoli
P50HL-14147-08 0006 Specialized center of research in thrombosis - Clearance mechanisms of coagulation moieties (human, rabbits, rodents)
P50HL-14187-07 0008 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary thromboembolism (dogs, human)
P50HL-14217-08 0054 Specialized center of research in thrombosis - Coagulation section--Platelet aggregation (human, pig, rabbit, dog)
P50HL-14236-05 0003 Prevention of premature arteriosclerosis - Intravascular clotting in patients with hyperlipidemia
** R01HL-15226-06 Interaction of blood cells with fibrinogen and fibrin (human, animals)
** P01HL-15486-06 0001 Studies on thrombosis - Studies on chemistry of fibrinogen (human, dogs)
P01HL-15486-06 0002 Studies on thrombosis - Characterization of antisera to fibrinopeptide B (human, rabbits)
** P01HL-15596-05 0001 Coagulation, fibrinolysis, hemostasis and hepatitis - Defibrination (human)
** P01HL-15596-05 0002 Coagulation, fibrinolysis, hemostasis and hepatitis - Radioimmunoassay of fibrinogen and fibrin derivatives (human)
** R01HL-16361-03 Fibrin complexes in intermediary coagulation (human, rabbits)
P01HL-16411-04 0002 Blood systems in coagulation and vessel disease - Early stages of coagulation and cardiovascular disease (human, rabbits)
P01HL-17419-04 0003 Studies on mechanisms of hemostasis - Characterization of fibrinogen (human)
R01HL-17964-04 The alternate pathway for fibrinolysis (human)
R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
** R01HL-18533-03 Microcrystalline and crystalline fibrinogen (cattle, bacteria)
** P01HL-18576-03 0002 Thrombosis research program project - Molecular basis of fibrin formation (human, cattle, lamprey)
R01HL-18644-03 Prosthesis for aortocoronary bypass (dogs, baboons)
** R01HL-18672-03 Dynamic studies of clot structure formation (human)
** R01HL-18935-03 Platelets, fibrinogen, soluble fibrin interaction (human)
** R01HL-19105-02 Detection and adherence of fibrin monomer complexes (human)
R01HL-19767-01 Pathochemistry of fibrinogen (humans)
** R01HL-20014-02 Radioimmunoassay of hyper and hypocoagulable states (rabbits)
** R01HL-20106-02 Coupling of platelet contractile proteins to fibrin (human)
** R01HL-20218-02 Fibrinogen catabolism and intravascular coagulation (human)
** R01HL-20319-02 Assembly, structure and interactions of fibrin (human)
R01HL-21001-01 Protein and thrombus deposition on vascular grafts
P50HL-21006-02 0006 Specialized center of research in arteriosclerosis - Intravascular coagulation and thrombosis in hyperlipidemia (human)
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
R01HL-21644-01 Fibronectin and related glycoproteins (human, rodents)
R01HL-22505-01 Molecular pathology of fibrinogen and factor XIII (human, animals)
R01HL-22955-01 inetics of prothrombin activation

BLOOD COAGULATION, FIBRIN STABILIZING FACTOR

** R01HL-02212-23 Coagulation of blood (human)
P01HL-06835-17 0027 Cardiovascular disease - Studies in thrombosis-cross-linking of fibrinogen (human)
R01HL-07379-13 Structure and function of fibrinogen (human)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
P50HL-14217-08 0048 Specialized center of research in thrombosis - Fibrinolysis section--Structural studies (human, animal)
** R01HL-16346-09 Enzyme assay for blood clotting (human)
R01HL-16361-03 Fibrin complexes in intermediary coagulation (human, rabbits)
R01HL-17769-03 New methods of studying blood coagulation kinetics
R01HL-20106-02 Coupling of platelet contractile proteins to fibrin (human)
R01HL-20319-02 Assembly, structure and interactions of fibrin (human)
** R01HL-21139-02 Molecular biology of factor XIII (human)
R01HL-21644-01 Fibronectin and related glycoproteins (human, rodents)
** R01HL-22505-01 Molecular pathology of fibrinogen and factor XIII (human, animals)

BLOOD COAGULATION, FIBRINOGEN

SEE ALSO BLOOD COAGULATION, CRYOFIBRINOGEN
SEE ALSO BLOOD COAGULATION DISORDERS, AFIBRINOGENEMIA

R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
R01HL-01662-25 Equilibria in the fibrinogen-fibrin conversion (human, cattle)
** R01HL-02262-23 Mechanisms regulating plasma proteins and solutes (human, dogs)
R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
P01HL-06350-17 0020 Hemostasis research program project - Structure and function of coagulant venom proteases
** P01HL-06835-17 0027 Cardiovascular disease - Studies in thrombosis-cross-linking of fibrinogen (human)
** P01HL-06835-17 0028 Cardiovascular disease - Studies in thrombosis-fibrinogen in fibrin transport (human)
** R01HL-07379-13 Structure and function of fibrinogen (human)
R01HL-08399-15 Platelet injury in infections and allergic diseases (human)
** P01HL-09011-15 0002 A research and resource program in blood - Biosynthesis of fibrinogen (dogs)
R01HL-10608-12 Digoxin-specific antibodies (human)
R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
R01HL-13198-21 Blood coagulation--Physico-chemical properties (human, cattle)
R01HL-13596-07 Clearance of plasma proteins from alveoli
** P50HL-14147-08 0006 Specialized center of research in thrombosis - Clearance mechanisms of coagulation moieties (human, rabbits, rodents)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
** P50HL-14217-08 0048 Specialized center of research in thrombosis - Fibrinolysis section-Structural studies (human, animal)
P50HL-14217-08 0049 Specialized center of research in thrombosis - Fibrinolysis section-Clinical studies
P50HL-14217-08 0050 Specialized center of research in thrombosis - Electron microscopy section (dogs)
P50HL-14217-08 0054 Specialized center of research in thrombosis - Coagulation section-Platelet aggregation (human, pig, rabbit, dog)
R01HL-14992-07 Mechanism of thrombin action (human)
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
** R01HL-15226-06 Interaction of blood cells with fibrinogen and fibrin (human, animals)
** P01HL-15486-06 0001 Studies on thrombosis - Studies on chemistry of fibrinogen (human, dogs)
** P01HL-15486-06 0002 Studies on thrombosis - Characterization of antisera to fibrinopeptide B (human, rabbits)
** P01HL-15486-06 0003 Studies on thrombosis - Mechanism and prevention of fibrinopeptide B degradation (human)
** P01HL-15486-06 0004 Studies on thrombosis - Thrombosis, intravascualr coagulation, platelet aggregation (dogs)
** P01HL-15486-06 0006 Studies on thrombosis - Clinical investigation unit
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
** P01HL-15596-05 0001 Coagulation, fibrinolysis, hemostasis and hepatitis - Defibrination (human)
** P01HL-15596-05 0002 Coagulation, fibrinolysis, hemostasis and hepatitis - Radioimmunoassay of fibrinogen and fibrin derivatives (human)
** P01HL-15596-05 0003 Coagulation, fibrinolysis, hemostasis and hepatitis - Plasmin degraded fibrinogen fractions (human)
P01HL-15596-05 0016 Coagulation, fibrinolysis, hemostasis and hepatitis - Hepatitis-B antigen in whole blood, plasma and plasma fractions (human, monkeys)
P01HL-15596-05 0017 Coagulation, fibrinolysis, hemostasis and hepatitis - Heparin and antithrombin III
P60HL-15996-06 0001 Cincinnati comprehensive sickle cell center - Coagulation mechanisms in sickle cell disease (human)
** R01HL-16361-03 Fibrin complexes in intermediary coagulation (human, rabbits)
** P01HL-16411-04 0003 Blood systems in coagulation and vessel disease - Molecular events involving the late stages of coagulation (rabbits)
** R01HL-16445-05 Regulation of plasma protein biosynthesis (rats, rabbits)
** R01HL-16646-05 Pathobiology of thromboembolic disorders (human)
P60HL-17265-04 0003 Community blood resource center support - Research--Human factor IX--Role in intrinsic clotting (also baboons, dogs)
M P01HL-17419-04 Studies on mechanisms of hemostasis
** P01HL-17419-04 0001 Studies on mechanisms of hemostasis - Structure and metabolism of fibrinogen (human)
** P01HL-17419-04 0003 Studies on mechanisms of hemostasis - Characterization of fibrinogen (human)
** P01HL-17419-04 0006 Studies on mechanisms of hemostasis - Effect of hormones, drugs and other agents on fibrinogen synthesis (chick)
** P01HL-17419-04 0007 Studies on mechanisms of hemostasis - Structural analysis of ordered forms of fibrinogen (human, cattle)
R01HL-17503-03 Vascular bubbles in decompression sickness (minipig, dog, goat)
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
P01HL-17812-04 0007 Thrombosis and plasma proteins - Blood components--Response to endotoxin (dogs, baboons)
R01HL-17930-03 Platelet membrane function--Assessment and application (animals)
R01HL-17964-04 The alternate pathway for fibrinolysis (human)
** R01HL-18533-03 Microcrystalline and crystalline fibrinogen (cattle, bacteria)
** P01HL-18576-03 0002 Thrombosis research program project - Molecular basis of fibrin formation (human, cattle, lamprey)
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
** R01HL-18935-03 Platelets, fibrinogen, soluble fibrin interaction (human)
R01HL-19105-02 Detection and adherence of fibrin monomer complexes (human)
R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
** R01HL-19767-01 Pathochemistry of fibrinogen (humans)
** R01HL-20014-02 Radioimmunoassay of hyper and hypocoagulable states (rabbits)
R01HL-20079-02 0003 Thromborasistant material - Blood surface interactions (human, cattle)
** R01HL-20092-02 Structural and biological properties of fibrinogen (human, rabbits)
** R01HL-20218-02 Fibrinogen catabolism and intravascular coagulation (human)
R01HL-20313-02 Surface induced thrombosis Modification of albumin variants (human, goat)
R01HL-20319-02 Assembly, structure and interactions of fibrin (human)
R01HL-21001-01 Protein and thrombus deposition on vascular grafts
P50HL-21006-02 0006 Specialized center of research in arteriosclerosis - Intravascular coagulation and thrombosis in hyperlipidemia (human)
R01HL-21273-02 Fibrinogen labeling with radiometals
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
P01HL-22163-01 0001 Surface thrombogenesis--Mechanisms and prevention - Initial blood protein and platelet interactions with biomaterials (baboons)
** R01HL-22505-01 Molecular pathology of fibrinogen and factor XIII (human, animals)
R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)
** N01HV-32917-08 Materials development and testing

BLOOD COAGULATION, FIBRINOLYSIS

SEE ALSO BLOOD COAGULATION, PLASMIN
** R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
R01HL-01661-27 Hemostatic mechanisms (human)
** R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
** R01HL-04366-19 Plasminogen--Activation and structure-function relations (mammals, birds)
** R01HL-11172-12 Physiology and biochemistry of fibrinolytic enzymes (human, animals)
R01HL-13423-08 Structure-function studies of plasminogen and plasmin (human)
R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)
P50HL-14147-08 0006 Specialized center of research in thrombosis - Clearance mechanisms of coagulation moieties (human, rabbits, rodents)
P50HL-14187-07 0008 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary thromboembolism (dogs, human)
** P50HL-14217-08 0048 Specialized center of research in thrombosis - Fibrinolysis section--Structural studies (human, animal)
** P50HL-14217-08 0049 Specialized center of research in thrombosis - Fibrinolysis section--Clinical studies
P50HL-14217-08 0050 Specialized center of research in thrombosis - Electron microscopy section (dogs)
P50HL-14217-08 0063 Specialized center of research in thrombosis - Special clinical studies laboratory
P60HL-15160-07 0016 Center for sickle cell disease - Kinin and plasmin system in sickle cell disease (human)
R01HL-15535-06 Structure and function of human plasmin
M P01HL-15596-05 Coagulation, fibrinolysis, hemostasis and hepatitis
P01HL-15596-05 0002 Coagulation, fibrinolysis, hemostasis and hepatitis - Radioimmunoassay of fibrinogen and fibrin derivatives (human)
** R01HL-15690-07 Hydrolytic enzymes of blood in health and disease (human, animals)
R01HL-15817-06 Plasminogen activators from tissues (human, pig, cattle)
** R01HL-15887-05 Enzymes of blood coagulation and fibrinolysis (human)
** R01HL-16238-05 Protein structure in coagulation and fibrinolysis (human)
P01HL-16411-04 0003 Blood systems in coagulation and vessel disease - Molecular events involving the late stages of coagulation (rabbits)
R01HL-16582-05 Artificial lungs (dogs)
R01HL-16642-05 Biochemistry and pathophysiology of plasma kallikrein (human, animals)
** P01HL-17812-04 0002 Thrombosis and plasma proteins - Activators of fibrinolysis--Synthesis and degradation (human, cattle)
** R01HL-17964-04 The alternate pathway for fibrinolysis (human)
** P01HL-18576-03 0012 Thrombosis research program project - Synthetic anticoagulant and thrombolytic agents (dogs)
R01HL-18618-04 Purification and function of human HMW kininogen
** R01HL-18672-03 Dynamic studies of clot structure formation (human)
R01HL-18738-02 Prevention of postoperative venous thrombi (human, cattle)
** R01HL-18815-03 Surgical vascular disorders (human, dogs)
P01HL-18827-02 0007 Platelet vessel wall interactions in thrombogenesis - Biochemistry and role factor V in thrombogenesis (human, cattle)
R01HL-19131-04 Hypercoagulability and assays for its protection (human)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
R01HL-20014-02 Radioimmunoassay of hyper and hypocoagulable states (rabbits)
R01HL-20846-02 Purification of bovine plasminogen proactivator
R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
** R01HL-21540-02 Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs)
R01HL-21544-02 Proteins of coagulation and Hagaman factor pathways (human, goats)
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
** R01HL-22289-01 Endothelial cell mediated fibrinolysis (rabbits)
R01HL-22996-01 Venom proteases--Action on plasma protease inhibitors (human)
N01HV-22917-11 Lipid research clinic (human)

BLOOD COAGULATION, FIBRINOLYTIC AGENTS

SEE ALSO BLOOD COAGULATION, LYSOKINASE
SEE ALSO BLOOD COAGULATION, PLASMIN
SEE ALSO BLOOD COAGULATION, UROKINASE
SEE ALSO IMMUNOLOGY, ANTIGENS BACTERIAL, STREPTOKINASE
R01HL-04366-19 Plasminogen--Activation and structure-function relations (mammals, birds)
R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
P50HL-14217-08 0049 Specialized center of research in thrombosis - Fibrinolysis section--Clinical studies
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
R01HL-18672-03 Dynamic studies of clot structure formation (human)
R01HL-21544-02 Proteins of coagulation and Hageman factor pathways (human, goats)
R01HL-22227-01 A new source of hyaluronidase and anticoagulants (leeches)

BLOOD COAGULATION, HAGEMAN FACTOR

R01HL-01661-27 Hemostatic mechanisms (human)
P01HL-06350-17 0015 Hemostasis research program project - Genetics (human)
P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activity (human)
** P50HL-14217-08 0062 Specialized center of research in thrombosis - Coagulation section--Factor VIII and Factor XII (human, cattle)
P60HL-15160-07 0016 Center for sickle cell disease - Kinin and plasmin system in sickle cell disease (human)
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
P01HL-15596-05 0014 Coagulation, fibrinolysis, hemostasis and hepatitis - Von Willebrand factor and platelet retention in glass bead columns (swine)
** R01HL-15690-07 Hydrolytic enzymes of blood in health and disease (human, animals)
** R01HL-16238-05 Protein structure in coagulation and fibrinolysis (human)
** P01HL-16411-04 0002 Blood systems in coagulation and vessel disease - Early stages of coagulation and cardiovascular disease (human, rabbits)
** P01HL-16411-04 0005 Blood systems in coagulation and vessel disease - Chemical analysis of serum components associated with coagulation (human, animal)
R01HL-16642-05 Biochemistry and pathophysiology of plasma kallikrein (human, animals)
** R01HL-16919-05 Proteins of blood coagulation (human, bovine)
R01HL-17402-04 Mechanism of contact activation of intrinsic clotting (human)
R01HL-18618-04 Purification and function of human HMW kininogen
M P01HL-18827-02 Platelet vessel wall interactions in thrombogenesis
** P01HL-18827-02 0002 Platelet vessel wall interactions in thrombogenesis - Interactions of vessel wall macromolecules with factor XII (human, rats)
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
R01HL-19131-04 Hypercoagulability and assays for its protection (human)
P50HL-19157-02 0008 Studies in cystic fibrosis and bronchiolitis - Serum proteins in cystic fibrosis (human)
** R01HL-20846-02 Purification of bovine plasminogen proactivator
** R01HL-21544-02 Proteins of coagulation and Hageman factor pathways (human, goats)
R01HL-22530-01 Active site studies on blood proteases (human)

BLOOD COAGULATION, HEMOSTATICS

R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-13629-08 Hemorrhagic diseases (human)
R01HL-15615-06 Structure-function studies of human factor VIII/vWF
R01HL-17769-03 New methods of studying blood coagulation kinetics

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-18249-04 Isolation and identification of platelet membrane (human)
** R01HL-18333-05 Thrombogenesis and hemostatic balance (rabbits, human)
R01HL-19278-03 Ristocetin induced platelet aggregation (human)

BLOOD COAGULATION, HEPARIN CO-FACTOR

P50HL-14230-07 0098 A/S SCOR--Lipids, atherosclerosis and thrombosis - Molecular properties of factor VIII (cattle, human, mice)
R01HL-16919-05 Proteins of blood coagulation (human, bovine)

BLOOD COAGULATION, HIRUDEN

** R01HL-16238-05 Protein structure in coagulation and fibrinolysis (human)
** R01HL-19331-03 Hirudin isolation and utilization (leeches)
R01HL-20079-02 0003 Thromboresistant material - Blood surface interactions (human, cattle)

BLOOD COAGULATION, LYSOKINASE

SEE ALSO IMMUNOLOGY, ANTIGENS BACTERIAL, STREPTOKINASE
P01HL-16411-04 0002 Blood systems in coagulation and vessel disease - Early stages of coagulation and cardiovascular disease (human, rabbits)
M P01HL-18827-02 Platelet vessel wall interactions in thrombogenesis
P01HL-18827-02 0003 Platelet vessel wall interactions in thrombogenesis - Tumor cell and platelets in thrombogenesis and metastasis (human, animals)
R23HL-21189-01 Regulation of pulmonary endothelial cell activities (human, cattle)
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
R01HL-22266-01 Production of proteases by lung cells in culture (human, rodents, rabbits, sheep)
R01HL-22289-01 Endothelial cell mediated fibrinolysis (rabbits)
** R01HL-22939-01 Human kinin and fibrinolytic systems and renal disease (human)

BLOOD COAGULATION, PLASMIN

SEE ALSO BLOOD COAGULATION, FIBRINOLYTIC AGENTS
R01HL-04366-19 Plasminogen--Activation and structure-function relations (mammals, birds)
P01HL-06350-17 0020 Hemostasis research program project - Structure and function of coagulant venom proteases
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
** R01HL-11172-12 Physiology and biochemistry of fibrinolytic enzymes (human, animals)
** R01HL-13423-08 Structure-function studies of plasminogen and plasmin (human)
R01HL-13596-07 Clearance of plasma proteins from alveoli
** P50HL-14147-08 0006 Specialized center of research in thrombosis - Clearance mechanisms of coagulation moieties (human, rabbits, rodents)
** P60HL-15160-07 0016 Center for sickle cell disease - Kinin and plasmin system in sickle cell disease (human)
P01HL-15486-06 0001 Studies on thrombosis - Studies on chemistry of fibrinogen (human, dogs)
P01HL-15486-06 0003 Studies on thrombosis - Mechanism and prevention of fibrinopeptide B degradation (human)
** R01HL-15535-06 Structure and function of human plasmin
** P01HL-15596-05 0003 Coagulation, fibrinolysis, hemostasis and hepatitis - Plasmin degraded fibrinogen fractions (human)
P01HL-15596-05 0007 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of urokinase (human)
P01HL-15596-05 0019 Coagulation, fibrinolysis, hemostasis and hepatitis - Protamine assay and serine proteases
R01HL-15615-06 Structure-function studies of human factor VIII/vWF
R01HL-15690-07 Hydrolytic enzymes of blood in health and disease (human, animals)
R01HL-15887-05 Enzymes of blood coagulation and fibrinolysis (human)
R01HL-16361-03 Fibrin complexes in intermediary coagulation (human, rabbits)
P01HL-16411-04 0002 Blood systems in coagulation and vessel disease - Early stages of coagulation and cardiovascular disease (human, rabbits)
P01HL-16411-04 0003 Blood systems in coagulation and vessel disease - Molecular events involving the late stages of coagulation (rabbits)
R01HL-16919-05 Proteins of blood coagulation (human, bovine)
P01HL-17812-04 0001 Thrombosis and plasma proteins - Thrombosis and plasma proteins (cattle, guinea pigs)
R01HL-18533-03 Microcrystalline and crystalline fibrinogen (cattle, bacteria)
P01HL-18576-03 0005 Thrombosis research program project - Molecular basis of von Willebrand's disease and hemophilia (human, cattle)
P01HL-18576-03 0012 Thrombosis research program project - Synthetic anticoagulant and thrombolytic agents (dogs)
R01HL-18672-03 Dynamic studies of clot structure formation (human)
P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
R01HL-19131-04 Hypercoagulability and assays for its protection (human)
R01HL-20014-02 Radioimmunoassay of hyper and hypocoagulable states (rabbits)
R01HL-20319-02 Assembly, structure and interactions of fibrin (human)
R01HL-20846-02 Purification of bovine plasminogen proactivator
P50HL-21006-02 0006 Specialized center of research in arteriosclerosis - Intravascular coagulation and thrombosis in hyperlipidemia (human)
R01HL-21540-02 Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs)
R01HL-21544-02 Proteins of coagulation and Hageman factor pathways (human, goats)
R01HL-22530-01 Active site studies on blood proteases (human)
R01HL-22996-01 Venom proteases--Action on plasma protease inhibitors (human)

BLOOD COAGULATION, PLASMINOGEN

** R01HL-04366-19 Plasminogen--Activation and structure-function relations (mammals, birds)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
** R01HL-11172-12 Physiology and biochemistry of fibrinolytic enzymes (human, animals)
R01HL-13160-08 Human thrombin (also cattle)
** R01HL-13423-08 Structure-function studies of plasminogen and plasmin (human)
R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)
R01HL-13596-07 Clearance of plasma proteins from alveoli
P50HL-14147-08 0006 Specialized center of research in thrombosis - Clearance mechanisms of coagulation moieties (human, rabbits, rodents)
** R01HL-15535-06 Structure and function of human plasmin
** P01HL-15596-05 0007 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of urokinase (human)
** P01HL-15596-05 0019 Coagulation, fibrinolysis, hemostasis and hepatitis - Protamine assay and serine proteases
** R01HL-15817-06 Plasminogen activators from tissues (human, pig, cattle)
R01HL-16150-05 Primary structure of prothrombin (cattle, human)
** R01HL-16238-05 Protein structure in coagulation and fibrinolysis (human)
** P01HL-17812-04 0001 Thrombosis and plasma proteins - Thrombosis and plasma proteins (cattle, guinea pigs)
** P01HL-17812-04 0002 Thrombosis and plasma proteins - Activators of fibrinolysis--Synthesis and degradation (human, cattle)
** R01HL-17964-04 The alternate pathway for fibrinolysis (human)
P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
** R01HL-20846-02 Purification of bovine plasminogen proactivator
** R01HL-22266-01 Production of proteases by lung cells in culture (human, rodents, rabbits, sheep)
R01HL-22289-01 Endothelial cell mediated fibrinolysis (rabbits)
R01HL-22530-01 Active site studies on blood proteases (human)

BLOOD COAGULATION, PLATELET FACTOR III

P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activity (human)
** P01HL-15486-06 0005 Studies on thrombosis - Isolation and characterization of PF4 antigens (rabbits)
P60HL-15996-06 0001 Cincinnati comprehensive sickle cell center - Coagulation mechanisms in sickle cell disease (human)
P01HL-17812-04 0004 Thrombosis and plasma proteins - Serum-platelet interaction (human)
P01HL-18576-03 0001 Thrombosis research program project - Platelet damage from physical forces and artificial surfaces (human)
** R01HL-20317-02 Procoagulant lipoproteins--Biochemistry and bioactivity (goats, rabbits)
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)

BLOOD COAGULATION, PROTHROMBIN

SEE ALSO BLOOD COAGULATION DISORDERS, HYPOPROTHROMBINEMIAS
R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
** R01HL-03424-21 Formation and properties of prothrombin derivatives (human, animals)
P01HL-06350-17 0018 Hemostasis research program project - Varients of factors IX (human, cattle)
** R01HL-09163-13 Control mechanisms in hemostasis (human)
** P01HL-11414-11 0033 Thrombosis and atherosclerosis program - Human coumarin-induced prothrombin
** R01HL-12820-09 In vitro regulation of prothrombin activation
R01HL-13160-08 Human thrombin (also cattle)
R01HL-13198-21 Blood coagulation--Physico-chemical properties (human, cattle)
P50HL-14147-08 0003 Specialized center of research in thrombosis - Surface thrombogenicity and phospholipid vesicle physical properties
P50HL-14147-08 0013 Specialized center of research in thrombosis - Mathematical models of blood coagulation kinetics
P50HL-14147-08 0014 Specialized center of research in thrombosis - Theoretical models for electrostatic effects in blood clot formation
R01HL-14847-07 Mechanism of action of vitamin K and anticoagulants (rats)
P01HL-15596-05 0016 Coagulation, fibrinolysis, hemostasis and hepatitis - Hepatitis-B antigen in whole blood, plasma and plasma fractions (human, monkeys)
P01HL-15596-05 0017 Coagulation, fibrinolysis, hemostasis and hepatitis - Heparin and antithrombin III
** P01HL-15596-05 0018 Coagulation, fibrinolysis, hemostasis and hepatitis - Increased plasma lipids on blood coagulation and thrombosis (human, animals)
** R01HL-15619-05 Regulation of prothrombin synthesis in cultured cells (rats)
** R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
R01HL-15887-05 Enzymes of blood coagulation and fibrinolysis (human)
R01HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin
** R01HL-16150-05 Primary structure of prothrombin (cattle, human)
** R01HL-16238-05 Protein structure in coagulation and fibrinolysis (human)
R01HL-16633-04 Chemistry and biology of factor IX activator (human, mice, rats)
R01HL-16919-05 Proteins of blood coagulation (human, bovine)
** P01HL-17430-05 0005 Control of coagulation - The activation of prothrombin (human, cattle, dogs)
** P01HL-17430-05 0006 Control of coagulation - Activation fragments of prothrombin in vitro and in vivo (human, dogs, cattle)
** P01HL-17812-04 0004 Thrombosis and plasma proteins - Serum-platelet interaction (human)
R01HL-18245-03 Transition state analog inhibitors of thrombin (human, cattle)
R01HL-18435-03 Properties of thrombin and Ac-globulin (human, animals)
P01HL-1857 03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
R01HL-18852-03 Biochemical studies on the blood coagulation process (human, cattle)
R01HL-19131-04 Hypercoagulability and assays for its protection (human)
R01HL-19282-03 Regulation of the activation of human factor X
** R01HL-19322-03 Role of pituitary hormones in the action of vitamin K (rats)
R01HL-19772-02 Role of warfarin metabolism in antivitamin K activity (rats)
R01HL-19982-02 Blood coagulation--Protein-metal ion-lipid interactions
** R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
** R01HL-20577-03 The mechanism of action of vitamin K
R01HL-21113-01 Control mechanisms in coagulation (cattle)
** R01HL-21403-02 Blood clotting kinetics studied by radioimmunoassay (human)
** R01HL-21431-02 Factor II antigen and coagulant activity (human, animals)
** R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)
** R01HL-22471-01 Biochemistry of prothrombin quick (human)
R01HL-22530-01 Active site studies on blood proteases (human)
** R01HL-22771-01 Thrombogenic phospholipid surfaces (cattle)
R23HL-22799-01 Interaction of the complement and coagulation systems (monkeys)
** R01HL-22955-01 inetics of prothrombin activation

BLOOD COAGULATION, THROMBIN

R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
R01HL-01662-25 Equilibria in the fibrinogen-fibrin conversion (human, cattle)
** R01HL-02212-23 Coagulation of blood (human)
** R01HL-02262-23 Mechanisms regulating plasma proteins and solutes (human, dogs)
** R01HL-03424-21 Formation and properties of prothrombin derivatives (human, animals)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)
R01HL-09163-13 Control mechanisms in hemostasis (human)
R01HL-09739-13 Biophysical studies of proteins (human)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-11963-10 Biochemistry of blood vessel formation and disease (swine)
R01HL-12820-09 In vitro regulation of prothrombin activation
** R01HL-13160-08 Human thrombin (also cattle)
R01HL-13198-21 Blood coagulation--Physico-chemical properties (human, cattle)
P01HL-13262-07 0022 Arterial wall in atherosclerosis - Mechanisms of platelet prostaglandin formation
R01HL-14020-06 Characterization of myosin from blood platelets (rabbit)
P50HL-14147-08 0001 Specialized center of research in thrombosis - Role of aspirin, other anti-platelet agents in platelet function (rat, human)
P50HL-14147-08 0012 Specialized center of research in thrombosis - Tissue culture study of arterial cells (human, hamster)
P50HL-14147-08 0013 Specialized center of research in thrombosis - Mathematical models of blood coagulation kinetics
P50HL-14230-07 0095 A/S SCOR--Lipids, atherosclerosis and thrombosis - Blood platelet adherence to endothelial smooth muscle cells, fibroblast (human)
P50HL-14230-07 0096 A/S SCOR--Lipids, atherosclerosis and thrombosis - Ultrastructural studies of endothelial cells (human)
P50HL-14230-07 0098 A/S SCOR--Lipids, atherosclerosis and thrombosis - Molecular properties of factor VIII (cattle, human, mice)
R01HL-14697-07 Role of platelet membranes in hemostasis (human)
** R01HL-14992-07 Mechanism of thrombin action (human)
R01HL-15230-05 Molecular basis of V Willebrand's disease and hemophilia (human, cattle)
R01HL-15335-06 The nature of the collagen-platelet interaction (animals)
P01HL-15486-06 0003 Studies on thrombosis - Mechanism and prevention of fibrinopeptide B degradation (human)
P01HL-15596-05 0017 Coagulation, fibrinolysis, hemostasis and hepatitis - Heparin and antithrombin III
R01HL-15616-04 Platelet membrane proteins in aggregation (human)
R01HL-15887-05 Enzymes of blood coagulation and fibrinolysis (human)
** R01HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin
R01HL-16150-05 Primary structure of prothrombin (cattle, human)
R01HL-16238-05 Protein structure in coagulation and fibrinolysis (human)
** R01HL-16346-09 Enzyme assay for blood clotting (human)
** R01HL-16355-05 Reactions of thrombin and collagen with platelets (human)
R01HL-16361-03 Fibrin complexes in intermediary coagulation (human, rabbits)
R01HL-16633-04 Chemistry and biology of factor IX activator (human, mice, rats)
** R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
** R01HL-16720-02 Platelet aggregation (human)
R01HL-16872-04 Antihemophilic factor (human)
R01HL-16919-05 Proteins of blood coagulation (human, bovine)
R01HL-16955-05 Heparin, blood coagulation and lipid metabolism (human)
P01HL-17430-05 0006 Control of coagulation - Activation fragments of prothrombin in vitro and in vivo (human, dogs, cattle)
R01HL-17513-04 Role of PF-4 in detecting and promoting thrombosis (human, primates)
P01HL-17812-04 0004 Thrombosis and plasma proteins - Serum-platelet interaction (human)
P01HL-17812-04 0005 Thrombosis and plasma proteins - In vitro systems of normal platelets, white cells, sera (human)
R01HL-17930-03 Platelet membrane function--Assessment and application (animals)
** R01HL-18245-03 Transition state analog inhibitors of thrombin (human, cattle)
** R01HL-18435-03 Properties of thrombin and Ac-globulin (human, animals)
P01HL-18576-03 0001 Thrombosis research program project - Platelet damage from physical forces and artificial surfaces (human)
P01HL-18576-03 0005 Thrombosis research program project - Molecular basis of von Willebrand's disease and hemophilia (human, cattle)
P01HL-18576-03 0011 Thrombosis research program project - Proteolysis and platelet function (human, cattle, rabbits)
P01HL-18576-03 0012 Thrombosis research program project - Synthetic anticoagulant and thrombolytic agents (dogs)
P01HL-18827-02 0007 Platelet vessel wall interactions in thrombogenesis - Biochemistry and role factor V in thrombogenesis (human, cattle)
P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
P50HL-18828-03 0004 Specialized center of research in thrombosis - Membrane changes in platelet physiology--Role of complement (mice, human)
R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
R01HL-18852-03 Biochemical studies on the blood coagulation process (human, cattle)
R01HL-18935-03 Platelets, fibrinogen, soluble fibrin interaction (human)
R01HL-19282-03 Regulation of the activation of human factor X
R01HL-19331-03 Hirudin isolation and utilization (leeches)
R01HL-19514-03 Proteinase inhibitor model with clinical potential
R01HL-20079-02 0003 Thromboresistant material - Blood surface interactions (human, cattle)
R01HL-20517-03 Diabetes, somatotropin, factor VIII and atherosclerosis (human, animal)
R01HL-20971-10 Membrane glycoproteins of platelets and leukocytes (human)
P50HL-21006-02 0006 Specialized center of research in arteriosclerosis - Intravascular coagulation and thrombosis in hyperlipidemia (human)
** R01HL-21113-01 Control mechanisms in coagulation (cattle)
R23HL-21208-02 Structure-function relationships of human factor VIII
R01HL-21403-02 Blood clotting kinetics studied by radioimmunoassay (human)
R01HL-21540-02 Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs)
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
R01HL-21769-01 Blood compatible benzamidine containing polymers
R01HL-22502-01 Role of phosphoinositides in human platelet secretion
R01HL-22771-01 Thrombogenic phospholipid surfaces (cattle)
** R23HL-22799-01 Interaction of the complement and coagulation systems (monkeys)
** R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)
** R01HL-22955-01 inetics of prothrombin activation

BLOOD COAGULATION, THROMBOPLASTIN

R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
** R01HL-11686-09 Dynamics of thrombus formation and dissolution (human, chickens)
R01HL-13198-21 Blood coagulation--Physico-chemical properties (human, cattle)
R01HL-14739-06 The role of leukocytes in thrombotic disease (human, dogs)
R01HL-15215-06 Role of complement in intravascular coagulation (rabbits, mice)
P01HL-15486-06 0003 Studies on thrombosis - Mechanism and prevention of fibrinopeptide B degradation (human)
P01HL-15486-06 0004 Studies on thrombosis - Thrombosis, intravascular coagulation, platelet aggregation (dogs)
P01HL-16411-04 0001 Blood systems in coagulation and vessel disease - Molecular studies of the role of complement in blood coagulation (human, rabbits)
P01HL-16411-04 0002 Blood systems in coagulation and vessel disease - Early stages of coagulation and cardiovascular disease (human, rabbits)
P01HL-17430-05 0005 Control of coagulation - The activation of prothrombin (human, cattle, dogs)
P01HL-17430-05 0006 Control of coagulation - Activation fragments of prothrombin in vitro and in vivo (human, dogs, cattle)
R01HL-17769-03 New methods of studying blood coagulation kinetics
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
** P01HL-18576-03 0009 Thrombosis research program project - Biology of factor VII (human, rabbits, cattle)
** R01HL-20317-02 Procoagulant lipoproteins--Biochemistry and bioactivity (goats, rabbits)
** R01HL-22980-01 Kinetic and mechanistic studies of blood coagulation (human, cattle)

BLOOD COAGULATION, THROMBOPOIESIS INHIBITORS

R01HL-02212-23 Coagulation of blood (human)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
** R01HL-11686-09 Dynamics of thrombus formation and dissolution (human, chickens)
** R01HL-11775-11 Platelet mechanisms in disease (human, primates)
R01HL-14637-05 Thrombopoietin--Immunoassay and characterization (mice)
R01HL-14992-07 Mechanism of thrombin action (human)
R01HL-15887-05 Enzymes of blood coagulation and fibrinolysis (human)
R01HL-17769-03 New methods of studying blood coagulation kinetics
R01HL-17964-04 The alternate pathway for fibrinolysis (human)
R01HL-18333-05 Thrombogenesis and hemostatic balance (rabbits, human)
** P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
R01HL-20218-02 Fibrinogen catabolism and intravascular coagulation (human)
R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
** N01HV-52907-04 Interactions of platelets with collagens (human, mammals)

BLOOD COAGULATION, THROMBOPOIESIS STIMULATING FACTORS

R01HL-14637-05 Thrombopoietin--Immunoassay and characterization (mice)
R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)

BLOOD COAGULATION, THROMBOPOIESIS STIMULATING FACTORS, THROMBOPOIETIN

R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
R01HL-10567-12 Erythropoietin--Immunoassay and characterization (dogs)
** R01HL-14637-05 Thrombopoietin--Immunoassay and characterization (mice)
R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)
R01HL-20826-02 Megakaryocyte proliferation and its control (mice)

BLOOD COAGULATION, THROMBOSTHENIN

** R01HL-14020-06 Characterization of myosin from blood platelets (rabbit)
R01HL-17769-03 New methods of studying blood coagulation kinetics
R01HL-20319-02 Assembly, structure and interactions of fibrin (human)

BLOOD COAGULATION, UROKINASE

R01HL-04366-19 Plasminogen--Activation and structure-function relations (mammals, birds)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-13423-08 Structure-function studies of plasminogen and plasmin (human)
P50HL-14217-08 0049 Specialized center of research in thrombosis - Fibrinolysis section--Clinical studies
P50HL-14217-08 0052 Specialized center of research in thrombosis - Radioisotope nuclear medicine section (human, dog)
** P01HL-15596-05 0001 Coagulation, fibrinolysis, hemostasis and hepatitis - Defibrination (human)
** P01HL-15596-05 0007 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of urokinase (human)
R01HL-15817-06 Plasminogen activators from tissues (human, pig, cattle)
R01HL-16150-05 Primary structure of prothrombin (cattle, human)
R01HL-21540-02 Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs)
** R01HL-22939-01 Human kinin and fibrinolytic systems and renal disease (human)

BLOOD COAGULATION DISORDERS

SEE ALSO BLOOD AND RE OISORDERS, HEMORRHAGIC DISOROERS
SEE ALSO BLOOD PLATELETS OISORDERS
R01HL-02262-23 Mechanisms regulating plasma proteins and solutes (human, dogs)
R01HL-04366-19 Plasminogen--Activation and structure-function relations (mammals, birds)
** P01HL-06350-17 0015 Hemostasis research program project - Genetics (human)
** R01HL-09163-13 Control mechanisms in hemostasis (human)
** R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)
R01HL-11775-11 Platelet mechanisms in disease (human, primates)
R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
P50HL-14147-08 0017 Specialized center of research in thrombosis - Core coagulation laboratory (human)
P50HL-14217-08 0048 Specialized center of research in thrombosis - Fibrinolysis section--Structural studies (human, animal)
P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activity (human)
R01HL-15474-06 Structure and function of the antihemophilic factor (human, cattle)
M P01HL-15596-05 Coagulation, fibrinolysis, hemostasis and hepatitis

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

M P01HL-16411-04 Blood systems in coagulation and vessel disease
R01HL-16445-05 Regulation of plasma protein biosynthesis (rats, rabbits)
R01HL-16919-05 Proteins of blood coagulation (human, bovine)
P60HL-17265-04 0007 Community blood resource center support - Research--Massive transfusion and trauma (human)
M P01HL-17430-05 Control of coagulation
R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
** R01HL-18507-03 Clinical studies of Fletcher factor (human)
M P01HL-18576-03 Thrombosis research program project
** R01HL-18672-03 Oynamic studies of clot structure formation (human)
** R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
RC1HL-19272-03 Studies on the Passovoy factor (human)
R01HL-19322-03 Role of pituitary hormones in the action of vitamin K (rats)
** R01HL-20014-02 Radioimmunoassay of hyper and hypocoagulable states (rabbits)
** R01HL-20092-02 Structural and biological properties of fibrinogen (human, rabbits)
** R01HL-21487-01 Molecular characterization of Glanzmann's thrombasthenia (human)

BLOOD COAGULATION DISORDERS, AFIBRINOGENEMIA

** P01HL-15486-06 0003 Studies on thrombosis - Mechanism and prevention of fibrinopeptide B degradation (human)
M P01HL-17419-04 Studies on mechanisms of hemostasis

BLOOD COAGULATION DISORDERS, CHRISTMAS DISEASE

SEE ALSO BLOOO COAGULATION, FACTOR IX
** P60HL-17265-04 0003 Community blood resource center support - Research--Human factor IX--Role in intrinsic clotting (also baboons, dogs)
R01HL-17752-03 Purified human clotting factor IX--Immunologic studies (human)
R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
R01HL-21975-01 Studies on normal and abnormal factor IX (human, dogs, cows)

BLOOD COAGULATION DISORDERS, FACTOR VII DEFICIENCY

R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)

BLOOD COAGULATION DISORDERS, FACTOR XI DEFICIENCY

P01HL-06350-17 0018 Hemostasis research program project - Varients of factors IX (human, cattle)
R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)

BLOOD COAGULATION DISORDERS, HEMOPHILIA

SEE ALSO BLOOO COAGULATION, FACTOR VIII
SEE ALSO BLOOO COAGULATION OISOROERS, CHRISTMAS DISEASE
SEE ALSO BLOOO COAGULATION OISOROERS, FACTOR XI OEFICIENCY
SEE ALSO BLOOO COAGULATION DISOROERS, VON WILLEBRANO'S OISEASE
N01HB-53016-05 Cooperative study of factor VIII inhibitors in patients with hemophilia
** N01HB-53018-04 Cooperative studies of factor VIII inhibitors in patients with hemophilia
** N01HB-53019-06 Cooperative study of factor VIII inhibitors in patients with hemophilia
** N01HB-53020-04 Cooperative study of factor VIII inhibitors in patients with hemophilia
** N01HB-53021-05 Cooperative study of factor VIII inhibitors in patients with hemophilia
** N01HB-53023-04 Cooperative study of factor VIII inhibitors in patients with hemophilia
** N01HB-53024-04 Cooperative studies of factor VIII inhibitors in patients with hemophilia
** N01HB-53025-05 Cooperative studies of factor VIII inhibitors in patients with hemophilia
** N01HB-53035-04 Factor VIII inhibitors in patients with hemophilia
** R01HL-01648-31 Blood coagulation and hemophilia (dogs, swine)
R01HL-01661-27 Hemostatic mechanisms (human)
R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
P01HL-06350-17 0005 Hemostasis research program project - Purification of plasma antihemophilic factor (human)
P01HL-06350-17 0015 Hemostasis research program project - Genetics (human)
R01HL-09163-13 Control mechanisms in hemostasis (human)
R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-13629-08 Hemorrhagic diseases (human)
** R01HL-15230-05 Molecular basis of V Willebrand's disease and hemophilia (human, cattle)
R01HL-15474-06 Structure and function of the antihemophilic factor (human, cattle)
R01HL-15491-06 Blood coagulation--Platelet-plasma protein interaction (human)
** P01HL-15596-05 0008 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of antihemophilic factor (human)
** P01HL-16411-04 0006 Blood systems in coagulation and vessel disease - Factor VII--Immunochemistry and immunobiology (human, mice)
R01HL-16626-05 Studies of antibodies to antihemophilic factors (human, rabbits)
** R01HL-16872-04 Antihemophilic factor (human)
** P60HL-17265-04 0001 Community blood resource center support - Demonstration and evaluation
** P60HL-17265-04 0002 Community blood resource center support - Research--Human factor VIII
P60HL-17265-04 0003 Community blood resource center support - Research--Human factor IX--Role in intrinsic clotting (also baboons, dogs)
R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)
P01HL-17812-04 0002 Thrombosis and plasma proteins - Activators of fibrinolysis--Synthesis and degradation (human, cattle)
** P01HL-18576-03 0005 Thrombosis research program project - Molecular basis of von Willebrand's disease and hemophilia (human, cattle)
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
P01HL-18576-03 0009 Thrombosis research program project - Biology of factor VII (human, rabbits, cattle)
R01HL-21379-01 Structure of factor VIII-Von Willebrand protein (human)
** R01HL-22355-01 Purification, structure and function of factor VIII (human)

BLOOD COAGULATION DISORDERS, HYPOPROTHROMBINEMIAS

** R01HL-22471-01 Biochemistry of prothrombin quick (human)

BLOOD COAGULATION DISORDERS, INTRAVASCULAR COAGULATION DISSEMINATED

SEE ALSO HEMOPROTEINS, HEMOGLOBINOPATHIES, SICKLE CELL CRISIS
R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
** P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
** P01HL-06835-17 0027 Cardiovascular disease - Studies in thrombosis-cross-linking of fibrinogen (human)
** P01HL-06835-17 0028 Cardiovascular disease - Studies in thrombosis-fibrinogen in fibrin transport (human)
P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-10608-12 Oigoxin-specific antibodies (human)
** P01HL-11310-12 0095 Mechanisms of cardiovascular disease - Blood and transfusion disorders (human, rats, monkeys)
R01HL-11686-09 Oynamics of thrombus formation and dissolution (human, chickens)
** R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)
P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
** P01HL-13738-08 0003 Cardiac assist devices and artificial hearts - Pathophysiological effects of the artificial heart (calves)
M P50HL-14147-08 Specialized center of research in thrombosis
P50HL-14147-08 0006 Specialized center of research in thrombosis - Clearance mechanisms of coagulation moieties (human, rabbits, rodents)
** P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
** P50HL-14236-05 0003 Prevention of premature arteriosclerosis - Intravascular clotting in patients with hyperlipidemia
** R01HL-14739-06 The role of leukocytes in thrombotic disease (human, dogs)
** R01HL-15215-06 Role of complement in intravascular coagulation (rabbits, mice)
M P01HL-15486-06 Studies on thrombosis
** P01HL-15486-06 0003 Studies on thrombosis - Mechanism and prevention of fibrinopeptide B degradation (human)
** P01HL-15486-06 0004 Studies on thrombosis - Thrombosis, intravascualr coagulation, platelet aggregation (dogs)
** P01HL-15486-06 0005 Studies on thrombosis - Isolation and characterization of PF4 antigens (rabbits)
** P01HL-15596-05 0001 Coagulation, fibrinolysis, hemostasis and hepatitis - Oefibrination (human)
** P01HL-15596-05 0002 Coagulation, fibrinolysis, hemostasis and hepatitis - Radioimmunoassay of fibrinogen and fibrin derivatives (human)
R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
** R01HL-16361-03 Fibrin complexes in intermediary coagulation (human, rabbits)
** P01HL-16411-04 0001 Blood systems in coagulation and vessel disease - Molecular studies of the role of complement in blood coagulation (human, rabbits)
** P01HL-16411-04 0002 Blood systems in coagulation and vessel disease - Early stages of coagulation and cardiovascular disease (human, rabbits)
** P01HL-16411-04 0004 Blood systems in coagulation and vessel disease - Platelets reactions in vascular injury (human, animals)
R01HL-16603-05 Human and experimental renal diseases (animals)
R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
R01HL-16646-05 Pathobiology of thromboembolic disorders (human)
M P01HL-17419-04 Studies on mechanisms of hemostasis
** P01HL-17419-04 0001 Studies on mechanisms of hemostasis - Structure and metabolism of fibrinogen (human)
** P01HL-17430-05 0005 Control of coagulation - The activation of prothrombin (human, cattle, dogs)
** P01HL-17430-05 0006 Control of coagulation - Activation fragments of prothrombin in vitro and in vivo (human, dogs, cattle)
R01HL-17752-03 Purified human clotting factor IX--Immunologic studies (human)
** P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
P01HL-18576-03 0009 Thrombosis research program project - Biology of factor VII (human, rabbits, cattle)
P01HL-18576-03 0012 Thrombosis research program project - Synthetic anticoagulant and thrombolytic agents (dogs)
M P01HL-18827-02 Platelet vessel wall interactions in thrombogenesis
** P01HL-18827-02 0003 Platelet vessel wall interactions in thrombogenesis - Tumor cell and platelets in thrombogenesis and metastasis (human, animals)
** P01HL-18827-02 0007 Platelet vessel wall interactions in thrombogenesis - Biochemistry and role factor V in thrombogenesis (human, cattle)
R01HL-19105-02 Detection and adherence of fibrin monomer complexes (human)
R01HL-19270-03 Effects of erythropoiesis on platelets and hemostasis (rats)
** R01HL-20014-02 Radioimmunoassay of hyper and hypocoagulable states (rabbits)
** R01HL-20218-02 Fibrinogen catabolism and intravascular coagulation (human)
** P50HL-21006-02 0006 Specialized center of research in arteriosclerosis - Intravascular coagulation and thrombosis in hyperlipidemia (human)
R01HL-21431-02 Factor II antigen and coagulant activity (human, animals)
R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)

BLOOD COAGULATION DISORDERS, VON WILLEBRAND'S DISEASE

SEE ALSO BLOOO COAGULATION, FACTOR VIII
R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
** R01HL-01648-31 Blood coagulation and hemophilia (dogs, swine)
R01HL-01661-27 Hemostatic mechanisms (human)
R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
P01HL-06350-17 0005 Hemostasis research program project - Purification of plasma antihemophilic factor (human)
P01HL-06350-17 0015 Hemostasis research program project - Genetics (human)
R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)
P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activit (human)
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
R01HL-14595-07 Primary disorders of platelet function (human, rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-15230-05 Molecular basis of V Willebrand's disaasa and hemophilia (human, cattla)
** P01HL-15596-05 0008 Coagulation, tibrinolysis, hemostasis and hapatitis Structural studies and tractionation ol antihemophilic factor (human)
** P01HL-15596-05 0010 Coagulalion, fibrinolysis, hamostasis and hepatitis - Von Willabrand's factor (human)
** P01HL-15596-05 0014 Coagulation, fibrinolysis, hamostasis and hapatitis Von Willabrand factor and platalat retantion in glass bead columns (swina)
P01HL-16387-04 0005 Tha blood vassal and thromboganasis - Fluid anginaering considerations in thromboganasis
P01HL-16387-04 0008 Tha blood vessel and thromboganasis - Factor VIII in hemostasis (human, rabbits)
** P01HL-16411-04 0006 Blood systems in coagulation and vessel diseasa - Factor VII-Immunochemistry and immunobiology (human, mice)
R01HL-16626-05 Studies of antibodies to antihemophilic factors (human, rabbits)
** R01HL-16872-04 Antihemophilic factor (human)
** P60HL-17265-04 0002 Community blood resource center support - Research--Human factor VIII
** P01HL-17430-05 0001 Control of coagulation - Porcine von Willebrand's disease
** P01HL-17430-05 0002 Control of coagulation - Isolation of ristocetin--von Willebrand factor (swine)
** P01HL-17430-05 0008 Control of coagulation - Cultures of von Willebrand endothelial cells (pigs)
R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
** P01HL-18576-03 0005 Thrombosis research program project - Molecular basis of von Willebrand's disease and hemophilia (human, cattle)
** P50HL-18828-03 0002 Specialized center ot research in thrombosis - Endothelial cell biology (human, guinea pig)
** R01HL-19001-03 Atherosclerosis in bleeder and drug treated subjects (pigs)
** R01HL-19267-02 Serial comparative study ot Von Willebrand's disease (human)
R01HL-20924-02 Atherosclerosis and arterial cell functions (human, rabbits)
** R23HL-21208-02 Structure-function relationships of human factor VIII
R01HL-21379-01 Structure of factor VIII-Von Willebrand protein (human)
** R23HL-21730-01 vWagII--A new vWO deficient antigen (human)

BLOOD COAGULATION TESTS*
SEE ALSO BLOOD COAGULATION, CLOT RETRACTION
** N01HB-53020-04 Cooperative study of factor VIII inhibitors in patients with hemophilia
R01HL-02212-23 Coagulation of blood (human)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
P50HL-14217-08 0063 Specialized center of research in thrombosis - Special clinical studies laboratory
** P01HL-15596-05 0019 Coagulation, fibrinolysis, hemostasis and hepatitis - Protamine assay and serine proteases
** R01HL-16346-09 Enzyme assay for blood clotting (human)
P01HL-17430-05 0001 Control of coagulation - Porcine von Willebrand's disease
P01HL-17430-05 0002 Control of coagulation - Isolation of ristocetin--von Willebrand factor (swine)
** R01HL-17726-03 Bacterial heparinase in diagnostic coagulation studies
** P01HL-18576-03 0013 Thrombosis research program project - Early warning and monitoring test systems in thrombotic disease (human)
R01HL-18618-04 Purification and function of human HMW kininogen
** R01HL-19105-02 Oetection and adherence of tibrin monomer complexes (human)
R01HL-21487-01 Molecular characterization of Glanzmann's thrombasthenia (human)
N01HV-22917-11 Lipid research clinic (human)

BLOOD COAGULATION TESTS, PROTHROMBIN TIME*
R01HL-15840-02 Sugar-induced heart lesions and vitamin K deficiency (birds, mammals subhuman)

BLOOD COAGULATION TESTS, THROMBIC INDEX*
** N01HV-42961-06 Evaluation of biomaterials in contact with blood (dogs)
** N01HV-42969-06 Interactions of natural and chemically modified biopolymers with blood (dogs)
** N01HV-62911-04 Vena cava ring tests of biomaterials in dogs

BLOOD DISORDERS (GENERAL)
SEE BLOOD AND RE OISOROERS, BLOOO OISOROERS (GENERAL)

BLOOD DISORDERS CONGENITAL (HEREDITARY)
SEE BLOOO ANO RE OISORDERS CONGENITAL (HEREOITARY)

BLOOD DONORS
SEE BLOOO TRANSFUSION, BLOOO OONORS

BLOOD FILTERS
SEE BLOOD TREATMENT, BLOOD FILTERS

BLOOD FLOW
SEE CAROIOVASCULAR FUNCTION, BLOOO FLOW

BLOOD FLOW IMPEDANCE
SEE CAROIOVASCULAR FUNCTION, BLOOO FLOW IMPEDANCE

BLOOD FLOW MEASUREMENTS
SEE CAROIOVASCULAR OISOROERS OIAGNOSIS, BLOOD FLOW MEASUREMENTS*

BLOOD FLOW OSCILLATORY
SEE CAROIOVASCULAR FUNCTION, BLOOO FLOW OSCILLATORY

BLOOD FLOWMETERS
SEE CARDIOVASCULAR OISOROERS OIAGNOSIS, BLOOO FLOW MEASUREMENTS*

BLOOD FRACTIONATION
SEE BLOOO ANO RE SYSTEM, BLOOD FRACTIONATION

BLOOD GROUP ANTIGENS
SEE BLOOO GROUPS ANTIGENS

BLOOD GROUP INCOMPATIBILITY
SEE ALSO BLOOO GROUPS
SEE ALSO BLOOO TRANSFUSION
R01HL-10036-13 Biology of red cell antigen-antibody reaction (human)

BLOOD GROUP INCOMPATIBILITY PERINATAL, ABO HEMOLYTIC DISEASE NEWBORN
SEE ALSO BLOOO GROUPS, ABO (H) SYSTEM
R01HL-05351-18 Blood group antigens and antibodies (human, rabbits, sheep)

BLOOD GROUP ISOANTIBODIES
SEE BLOOO GROUPS ISOANTIBOOIES

BLOOD GROUP ISOANTIGENS
SEE BLOOO GROUPS ANTIGENS

BLOOD GROUPS
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, HISTOCOMPATIBILITY TYPING
P01HL-03174-23 0006 Mechanisms of acute vascular reaction to injury - Atherosclerotic plaque studies using mosaic analysis (human)
** R01HL-05351-18 Blood group antigens and antibodies (human, rabbits, sheep)
** P01HL-09011-15 0001 A research and resource program in blood - Genetic markers of human blood and gene mapping (human)
** P01HL-09011-15 0012 A research and resource program in blood - Theoretical population genetics (human)
R01HL-15125-07 Molecular pathology of genetic disorders in man
** R01HL-20301-02 Genetics of glycosyltransferases in human blood
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)

BLOOD GROUPS, ABO (H) SYSTEM
SEE ALSO BLOOO GROUP INCOMPATIBILITY PERINATAL, ABO HEMOLYTIC OISEASE NEWBORN
SEE ALSO IMMUNOLOGY, SECRETORY (ANTIBOOY) (FACTOR) SYSTEM
N01HB-62970-02 Collection, function and transfusion of granulocytes
N01HB-62973-05 Collection, function and transfusion of granulocytes
** R01HL-05351-18 Blood group antigens and antibodies (human, rabbits, sheep)
R01HL-15125-07 Molecular pathology of genetic disorders in man
** R01HL-17881-15 Biosynthesis and degradation of blood group substances (human, animals)
R01HL-20301-02 Genetics of glycosyltransferases in human blood

BLOOD GROUPS, BOMBAY
R01HL-20301-02 Genetics of glycosyltransferases in human blood

BLOOD GROUPS, MNSS SYSTEM
R01HL-05351-18 Blood group antigens and antibodies (human, rabbits, sheep)
R01HL-20301-02 Genetics of glycosyltransferases in human blood

BLOOD GROUPS, RH SYSTEM
SEE ALSO BLOOO GROUPS ISOANTIBOOIES, RH ANTIBOOIES
** R01HL-12994-09 The Rh complex of red cells (human)
** R01HL-23108-01 Membrane biochemistry of RH antigens (human)
** R01HL-24021-02 Erythocyte membrane sulfhydrls and Rh activity (human)

BLOOD GROUPS ANTIGENS
SEE ALSO BLOOO GROUPS
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOANTIGENS
** R01HL-05351-18 Blood group antigens and antibodies (human, rabbits, sheep)
P01HL-09011-15 0001 A research and resource program in blood Genetic markers of human blood and gene mapping (human)
R01HL-10036-13 Biology ot red cell antigen antibody reaction (human)
** R01HL-11154-12 Blood group antigens and antibodies (human)
P01HL-12157-11 0033 Functions and mechanisms ol cell mambrane ion transport Immunology aspects ol active Na-K transport in sheep red call (also human, mice)
** R01HL-12994-09 The Rh complex ot red cells (human)
R01HL-14844-06 Mucous glycoprolein in human respiratory epithelium (also wheat)
P01HL-15486-06 0005 Studies on thromhosis Isolation and characterization of PF4 antigens (rabbils)
R01HL-16774-04 Genetic epidemiology of hyperlipemia (Honolulu)
P60HL-17265-04 0008 Community blood resource center support Research--Blood genetic markers as biological prohes (human)

BLOOD GROUPS ANTIGENS, II ANTIGENS
** R23HL-21328-02 The I blood group antigen of human erythrocyte membrane

BLOOD GROUPS ISOANTIBODIES
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOANTIBOOIES
R01HL-08696-15 0011 Orthotopic heart transplantation - Transplantation immunology--Immunodepressive factor (human, dogs)
** R01HL-11154-12 Blood group antigens and antibodies (human)
P60HL-17265-04 0008 Community blood resource center support - Research--Blood genetic markers as biological probes (human)

BLOOD GROUPS ISOANTIBODIES, RH ANTIBODIES
R01HL-05351-18 Blood group antigens and antibodies (human, rabbits, sheep)

BLOOD LIPIDS
SEE LIPIOS BLOOD

BLOOD LIPOPROTEIN DISORDERS
SEE LIPOPROTEINS BLOOD, OYSLIPOPROTEINEMIAS

BLOOD OSMOTIC PRESSURE
P01HL-11678-11 0020 Cardiovascular dynamics and their control - Circulatory and pulmonary fluid dynamics during pulmonary edema
R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in ROS (sheep, cat)
P60HL-15162-07 0019 Comprehensive sickle cell center - RBC-Blood rheology in sickle cell anemia and related disorders (human, animal)
P01HL-16851-04 0001 Human red cell membrane in health and disease - Rheology ot erythrocyte membrane (human, amphiuma)
P01HL-16910-05 0001 Regulation of the peripheral circulation - Quantitative studies of microcirculatory control (bats)
P01HL-17421-05 0001 Regulation and exchange in the microcirculation - Mass transfer and microcirculatory function (rats)
R01HL-20634-01 Blood volume and venous return in thermal strain (human)
R01HL-20818-02 Platelet storage at 22 degrees C (human)
** R01HL-21145-02 Response of atria to hyperosmolality--Mechanisms (rabbits)
R01HL-21188-02 Pulsatory water flux and endothelial cell desquamation
R23HL-21434-02 Intrinsic control of coronary blood flow by chemicals (guinea pigs)
R01HL-21498-02 Pathophysiology of edema (rats, cats)

BLOOD OSMOTIC PRESSURE, HYPEROSMOLARITY
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)

BLOOD OXYGENATORS
SEE CAROIOVASCULAR SURGERY, CIRCULATORY ASSIST, BLOOO OXYGENATORS

BLOOD PLATELET AGGREGATION
SEE BLOOO PLATELETS, PLATELET AGGREGATION

BLOOD PLATELET PRESERVATION
SEE BLOOO PRESERVATION, PLATELET PRESERVATION

BLOOD PLATELET TRANSFUSION
SEE BLOOO TRANSFUSION, PLATELET TRANSFUSION

BLOOD PLATELET TYPING
P01HL-11310-12 Mechanisms ot cardiovascular disease
P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation ot platelet transfusions (human, dog)
P01HL-18827-02 Platelet vessel wall interactions in thrombogenesis

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly ta above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis Platelet immune injury in man
R01HL-20856-02 Platelet transfusions--Usage and complications (human)

BLOOD PLATELETPHERESIS
SEE BLOOD TREATMENT, PLATELETPHERESIS

BLOOD PLATELETS
SEE ALSO BLOOD AND RE SYSTEM, MEGAKARYOCYTES
N01HI-32926-10 Analysis of lipoproteins (animals)
R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
R01HL-01648-31 Blood coagulation and hemophilia (dogs, swine)
R01HL-01803-23 0017 Arteriosclerosis, glomerulonephritis, rheumatic fever - Contractile and relaxing proteins of blood vessels and platelets (mammals, human)
R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
M P01HL-06314-17 Immunologic mechanisms in cardiovascular disease
** P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
P01HL-06314-17 0053 Immunologic mechanisms in cardiovascular disease - Cellular functions controlled by cyclic GMP (human, mice, guinea pigs)
R01HL-07379-13 Structure and function of fibrinogen (human)
** R01HL-08399-15 Platelet injury in infections and allergic diseases (human)
R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
M P01HL-11414-11 Thrombosis and atherosclerosis program
** P01HL-11414-11 0004 Thrombosis and atherosclerosis program - Platelet function and nonthrombogenic surfaces (human)
** R01HL-11775-11 Platelet mechanisms in disease (human, primates)
** R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
** R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
** P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
R01HL-13160-08 Human thrombin (also cattle)
R01HL-13198-21 Blood coagulation--Physico-chemical properties (human, cattle)
** P01HL-13262-07 0022 Arterial wall in atherosclerosis - Mechanisms of platelet prostaglanoin formation
** R01HL-13336-09 Biochemistry and physiology of human platelets
P01HL-13737-07 0026 Assisted circulation - Hemostatic mechanism (human, dogs)
P01HL-13738-08 0004 Cardiac assist devices and artificial hearts - Hematological evaluation of prosthetic materials (calves)
** R01HL-14020-06 Characterization of myosin from blood platelets (rabbit)
M P50HL-14147-08 Specialized center of research in thrombosis
** P50HL-14147-08 0001 Specialized center of research in thrombosis - Role of aspirin, other anti-platelet agents in platelet function (rat, human)
P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
P50HL-14147-08 0016 Specialized center of research in thrombosis - Nuclear medicine core laboratory (human, dogs, rats, rabbits)
P50HL-14147-08 0017 Specialized center of research in thrombosis - Core coagulation laboratory (human)
** P50HL-14147-08 0018 Specialized center of research in thrombosis - Biochemical aspects of platelet function in thrombosis and cell growth (human)
P50HL-14164-07 0044 A/S SCOR--Comparative and experimental atherosclerosis - Cell biology-atherosclerosis project (pigeons)
P50HL-14217-08 0050 Specialized center of research in thrombosis - Electron microscopy section (dogs)
** P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activity (human)
** P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
** P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
** P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
P50HL-14217-08 0061 Specialized center of research in thrombosis - Pharmacology--Comparison of platelets and vascular smooth muscle (animal)
P50HL-14217-08 0062 Specialized center of research in thrombosis - Coagulation section--Factor VIII and Factor XII (human, cattle)
P50HL-14217-08 0063 Specialized center of research in thrombosis - Special clinical studies laboratory
P50HL-14230-07 0093 A/S SCOR--Lipids, atherosclerosis and thrombosis - Clinical studies involving cellular lipid content (human)
** P50HL-14230-07 0095 A/S SCOR--Lipids, atherosclerosis and thrombosis - Blood platelet adherence to endothelial smooth muscle cells, fibroblast (human)
P50HL-14230-07 0096 A/S SCOR--Lipids, atherosclerosis and thrombosis - Ultrastructural studies of endothelial cells (human)
** P50HL-14230-07 0097 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)
** R01HL-14344-07 Platelet function and adenine nucleotide metabolism (human)
** R01HL-14697-07 Role of platelet membranes in hemostasis (human)
** R01HL-14890-07 Platelet prostaglandins (human, rabbits)
P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
** R01HL-14992-07 Mechanism of thrombin action (human)
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
** R01HL-15226-06 Interaction of blood cells with fibrinogen and fibrin (human, animals)
** R01HL-15335-06 The nature of the collagen-platelet interaction (animals)
P01HL-15486-06 0005 Studies on thrombosis - Isolation and characterization of PF4 antigens (rabbits)
** R01HL-15491-06 Blood coagulation--Platelet-plasma protein interaction (human)
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
** P01HL-15596-05 0012 Coagulation, fibrinolysis, hemostasis and hepatitis - Platelet function--Phorbol ester and zymosan-induced release activity
** P01HL-15596-05 0014 Coagulation, fibrinolysis, hemostasis and hepatitis - Von Willebrand factor and platelet retention in glass bead columns (swine)
** R01HL-15616-04 Platelet membrane proteins in aggregation (human)
R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)
R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
** R01HL-16355-05 Reactions of thrombin and collagen with platelets (human)
P01HL-16387-04 0004 The blood vessel and thrombogenesis - Analysis of vascular basement membrane by enzymatic methods (human)
P01HL-16411-04 0001 Blood systems in coagulation and vessel disease - Molecular studies of the role of complement in blood coagulation (human, rabbits)
P01HL-16411-04 0002 Blood systems in coagulation and vessel disease - Early stages of coagulation and cardiovascular disease (human, rabbits)
P01HL-16411-04 0003 Blood systems in coagulation and vessel disease - Molecular events involving the late stages of coagulation (rabbits)
** P01HL-16411-04 0004 Blood systems in coagulation and vessel disease - Platelets reactions in vascular injury (human, animals)
P01HL-16411-04 0006 Blood systems in coagulation and vessel disease - Factor VII--Immunochemistry and immunobiology (human, mice)
R01HL-16577-04 Lipoprotein lipase chemistry and function (rats, cattle, human)
** R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
R01HL-16642-05 Biochemistry and pathophysiology of plasma kallikrein (human, animals)
R01HL-16646-05 Pathobiology of thromboembolic disorders (human)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
R01HL-16757-04 'Autoimmune' thrombocytopenia (monkey)
R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
P01HL-17430-05 0005 Control of coagulation - The activation of prothrombin (human, cattle, dogs)
P01HL-17430-05 0008 Control of coagulation - Cultures of von Willebrand endothelial cells (pigs)
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
R01HL-17503-03 Vascular bubbles in decompression sickness (minipig, dog, goat)
** R01HL-17513-04 Role of PF-4 in detecting and promoting thrombosis (human, primates)
** R01HL-17525-03 Molecular basis of collagen-platelet interaction (human, rat)
** R01HL-17729-04 Stimulus-response coupling in platelets (human)
** P01HL-17812-04 0005 Thrombosis and plasma proteins - In vitro systems of normal platelets, white cells, sera (human)
** P01HL-17812-04 0007 Thrombosis and plasma proteins - Blood components--Response to endotoxin (dogs, baboons)
** R01HL-17930-03 Platelet membrane function--Assessment and application (animals)
** R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
** R01HL-18030-04 The role of contractile proteins in platelets (human, rabbits)
R01HL-18179-03 Heart, platelet, and muscle myosins and actomyosins (cattle)
P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
** R01HL-18249-04 Isolation and identification of platelet membrane (human)
R01HL-18256-01 Optical properties of platelets and erythrocytes (rabbits, dogs, human)
** R01HL-18502-03 Enzymatic regulation of platelet function (human)
R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
** P01HL-18576-03 0011 Thrombosis research program project - Proteolysis and platelet function (human, cattle, rabbits)
** R01HL-18584-03 Effects of physical forces on platelets (human)
** R01HL-18586-03 Role of platelet lipids in hemostasis and thrombosis (human)
** R01HL-18650-03 Platelet collagen interaction (human)
** R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
M P01HL-18827-02 Platelet vessel wall interactions in thrombogenesis
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
** P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
M P50HL-18828-03 Specialized center of research in thrombosis
** P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
P50HL-18828-03 0002 Specialized center of research in thrombosis - Endothelial cell biology (human, guinea pig)
P50HL-18828-03 0004 Specialized center of research in thrombosis - Membrane changes in platelet physiology--Role of complement (mice, human)
** P50HL-18828-03 0008 Specialized center of research in thrombosis - Biochemistry, physiology--Platelets and subcellular platelet particles (human)
** P50HL-18828-03 0009 Specialized center of research in thrombosis - Platelet formation and megakaryocyte cell biology (guinea pig, human)
** R01HL-18935-03 Platelets, fibrinogen, soluble fibrin interaction (human)
** R01HL-18937-03 Cyclic nucleotides and calcium in platelets (human)
R01HL-19001-03 Atherosclerosis in bleeder and drug treated subjects (pigs)
** R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
** R01HL-19270-03 Effects of erythropoiesis on platelets and hemostasis (rats)
R01HL-19323-03 Studies of platelet microtubule protein
R01HL-19806-03 Chemotactic control of airway phagocytes (human, rabbits)
** R01HL-19996-02 Role of membrane proteins in platelet function (human, rabbits)
** R01HL-20114-02 Collagen-platelet interaction and human aorta collagen (human)
** R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)
R01HL-20522-03 Peripheral arterial disease in the diabetic (human)
** R01HL-20794-02 Prostaglandin synthesis in human platelets (also in sheep, rabbit)
** R01HL-20826-02 Megakaryocyte proliferation and its control (mice)
R01HL-20902-02 Studies on marginal band system of erythrocytes (amphibians, reptiles, fish)
R01HL-20924-02 Atherosclerosis and arterial cell functions (human, rabbits)
** R01HL-20956-02 Early events following stimulation of human platelets
** R01HL-20971-10 Membrane glycoproteins of platelets and leukocytes (human)
** P50HL-21006-02 0004 Specialized center of research in arteriosclerosis - Regulation of growth of human arterial smooth muscle cells by platelets
** P50HL-21006-02 0006 Specialized center of research in arteriosclerosis - Intravascular coagulation and thrombosis in hyperlipidemia (human)
** R23HL-21128-02 ATP utilization in platelet contractile mechanisms (human, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-21217-01 Ion and 5-hydroxytryptamine transport by platelets
** R23HL-21413-02 Structure and function of platelet calcium-binding protein (human)
R01HL-21471-02 Structure-function studies on actin and myosin (human, protozoa, rabbits, cattle)
** R23HL-21490-02 Studies of enzymes in human platelet membranes
R01HL-21592-01 Lipoproteins and coagulation factors in atherosclerosis (pigeons)
R01HL-21644-01 Fibronectin and related glycoproteins (human, rodents)
R23HL-21730-01 vWagII: A new vWD deficient antigen (human)
R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)
** R01HL-21988-01 Biochemistry of human platelet chemotaxis
** R01HL-22081-20 The mechanism of collagen formation (human, cattle)
** R01HL-22119-01 Biochemistry of platelet function in thrombosis and cell growth (rabbits)
** R01HL-22194-02 Allosteric function of platelet contractile proteins (human)
** R01HL-22270-01 Platelet glycoprotein (human)
R01HL-22338-01 Platelet adhesion and aggregation in a flow chamber (human)
R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)
R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)
** R01HL-22455-01 Platelet concentration in the marginal layer (dogs, human)
R01HL-22471-01 Biochemistry of prothrombin quick (human)
** R01HL-22502-01 Role of phosphoinositides in human platelet secretion
R01HL-22505-01 Molecular pathology of fibrinogen and factor XIII (human, animals)
R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
R01HL-22582-01 Pulmonary and circulatory alterations induced by IGE
R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
M P01HL-22602-01 Pathophysiology of the endothelium
** P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
** P01HL-22602-01 0004 Pathophysiology of the endothelium - Endothelium, platelets smooth muscle and atherosclerosis (rabbits)
** P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)
** N01HV-42984-05 Interactions of modified biopolymers with blood (humans, rats)

BLOOD PLATELETS, PLATELET ACTIVATING FACTOR

SEE ALSO FATTY ACIDS, UNSATURATED FATTY ACIDS, THROMBOXANES

P01HL-11310-12 0095 Mechanisms of cardiovascular disease - Blood and transfusion disorders (human, rats, monkeys)
** R01HL-17525-03 Molecular basis of collagen-platelet interaction (human, rat)
R01HL-17747-04 Endothelial injury and regeneration (rats)
M P01HL-18645-03 Biology of the artery wall and atherosclerosis
** P01HL-18645-03 0001 Biology of the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
P01HL-18645-03 0003 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
P01HL-18645-03 0005 Biology of the artery wall and atherosclerosis - Effects of atherosclerosis risk factors on endothelium of the primate
** P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
** P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
P50HL-18828-03 0008 Specialized center of research in thrombosis - Biochemistry, physiology--Platelets and subcellular platelet particles (human)
R01HL-21533-02 Platelet inhibitor drug in coronary surgery (human)
R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
** R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)

BLOOD PLATELETS, PLATELET AGGREGATION

SEE ALSO BLOOD COAGULATION, ANTICOAGULANTS, PLATELET AGGREGATION INHIBITORS

R01HL-01648-31 Blood coagulation and hemophilia (dogs, swine)
R01HL-01661-27 Hemostatic mechanisms (human)
R01HL-01803-23 0014 Arteriosclerosis, glomerulonephritis, rheumatic fever: Regenerated endothelium on lipid accumulation in arterial wall (rabbit)
R01HL-03424-21 Formation and properties of prothrombin derivatives (human, animals)
P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique
** P01HL-06312-17 0046 Surgical cardiology: The relationship of prostaglandins to heart disease
P01HL-06350-17 0005 Hemostasis research program project - Purification of plasma antihemophilic factor (human)
** P01HL-06350-17 0019 Hemostasis research program project - Microcirculation (human, rats, rabbits)
P01HL-06835-17 0063 Cardiovascular disease - Studies on prostaglandins (human, rabbits)
P01HL-07896-15 0057 Environmental biomedical research program - Effects of dipyridamole and aspirin on decompression thrombocytopenia (human)
** P01HL-11310-12 0095 Mechanisms of cardiovascular disease - Blood and transfusion disorders (human, rats, monkeys)
P01HL-11414-11 0037 Thrombosis and atherosclerosis program - Vascular intimal injury and healing (rabbits, rats)
R01HL-11775-11 Platelet mechanisms in disease (human, primates)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
R01HL-11897-11 Pathogenesis of experimental atherosclerosis (rabbits, guinea pigs)
R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
R01HL-13198-21 Blood coagulation--Physico-chemical properties (human, cattle)
P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
R01HL-13336-09 Biochemistry and physiology of human platelets
** R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)
P50HL-14147-08 0001 Specialized center of research in thrombosis - Role of aspirin, other anti-platelet agents in platelet function (rat, human)
P50HL-14147-08 0012 Specialized center of research in thrombosis - Tissue culture study of arterial cells (human, hamster)
P50HL-14147-08 0017 Specialized center of research in thrombosis - Core coagulation laboratory (human)
P50HL-14214-07 0031 Newborn lung center for hyaline membrane disease - Essential fatty acid deficiency and HMD (human)
M P50HL-14217-08 Specialized center of research in thrombosis
** P50HL-14217-08 0051 Specialized center of research in thrombosis - Microcirculation section (bat, hamster)
** P50HL-14217-08 0054 Specialized center of research in thrombosis - Coagulation section--Platelet aggregation (human, pig, rabbit, dog)
P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activity (human)
** P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
** P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
** P50HL-14217-08 0061 Specialized center of research in thrombosis - Pharmacology--Comparison of platelets and vascular smooth muscle (animal)
P50HL-14217-08 0063 Specialized center of research in thrombosis - Special clinical studies laboratory
M P50HL-14230-07 A/S SCOR--Lipids, atherosclerosis and thrombosis
** P50HL-14230-07 0094 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of atherosclerosis and regression (monkeys)
P50HL-14230-07 0095 A/S SCOR--Lipids, atherosclerosis and thrombosis - Blood platelet adherence to endothelial smooth muscle cells, fibroblast (human)
** P50HL-14230-07 0097 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)
** P50HL-14230-07 0098 A/S SCOR--Lipids, atherosclerosis and thrombosis - Molecular properties of factor VIII (cattle, human, mice)
R01HL-14344-07 Platelet function and adenine nucleotide metabolism (human)
R01HL-14595-07 Primary disorders of platelet function (human, rats)
R01HL-14697-07 Role of platelet membranes in hemostasis (human)
R01HL-14890-07 Platelet prostaglandins (human, rabbits)
P01HL-14985-07 0014 Adaptation to hypoxia - High altitude pulmonary edema (human, rats, dogs)
R01HL-14992-07 Mechanism of thrombin action (human)
P01HL-15195-04 0004 Program project in biological materials - Biological evaluation and surface interaction studies (dogs)
R01HL-15215-06 Role of complement in intravascular coagulation (rabbits, mice)
R01HL-15226-06 Interaction of blood cells with fibrinogen and fibrin (human, animals)
R01HL-15230-05 Molecular basis of V Willebrand's disease and hemophilia (human, cattle)
R01HL-15335-06 The nature of the collagen platelet interaction (animals)
R01HL-15474-06 Structure and function of the antihemophilic factor (human, cattle)
P01HL-15486-06 0004 Studies on thrombosis - Thrombosis, intravascular coagulation, platelet aggregation (dogs)
R01HL-15491-06 Blood coagulation--Platelet-plasma protein interaction (human)
** P01HL-15596-05 0012 Coagulation, fibrinolysis, hemostasis and hepatitis - Platelet function--Phorbol ester and zymosan-induced release activity
R01HL-15615-06 Structure-function studies of human factor VIII/vWF
** R01HL-15616-04 Platelet membrane proteins in aggregation (human)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
** P01HL-15835-06 0004 Study of muscles related to heart disease - Actomyosin systems and cell motility (slime molds, human)
** P60HL-15996-06 0001 Cincinnati comprehensive sickle cell center - Coagulation mechanisms in sickle cell disease (human)
R01HL-16355-05 Reactions of thrombin and collagen with platelets (human)
P01HL-16387-04 0005 The blood vessel and thrombogenesis - Fluid engineering considerations in thrombogenesis
R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
** R01HL-16720-02 Platelet aggregation (human)
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
P60HL-17265-04 0007 Community blood resource center support - Research--Massive transfusion and trauma (human)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
M P01HL-17430-05 Control of coagulation
P01HL-17430-05 0001 Control of coagulation - Porcine von Willebrand's disease
** P01HL-17430-05 0002 Control of coagulation - Isolation of ristocetin--von Willebrand factor (swine)
** P01HL-17430-05 0007 Control of coagulation - Platelet adhesion, aggregation, ultrastructure in flowing blood (human, animals)
** R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)
** R01HL-17513-04 Role of PF-4 in detecting and promoting thrombosis (human, primates)
R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
R01HL-17729-04 Stimulus-response coupling in platelets (human)
R01HL-17769-03 New methods of studying blood coagulation kinetics
M P01HL-17812-04 Thrombosis and plasma proteins
** P01HL-17812-04 0004 Thrombosis and plasma proteins - Serum-platelet interaction (human)
P01HL-17812-04 0005 Thrombosis and plasma proteins - In vitro systems of normal platelets, white cells, sera (human)
R01HL-18030-04 The role of contractile proteins in platelets (human, rabbits)
R01HL-18239-03 Dietary fat composition and prostaglandin synthesis (rats)
R01HL-18256-01 Optical properties of platelets and erythrocytes (rabbits, dogs, human)
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
R01HL-18321-03 Fluid shear or magnetic alignment of blood components (human)
** R01HL-18502-03 Enzymatic regulation of platelet function (human)
** P01HL-18576-03 0001 Thrombosis research program project - Platelet damage from physical forces and artificial surfaces (human)
** P01HL-18576-03 0004 Thrombosis research program project - Mechanism and control of collagen-platelet interaction
** P01HL-18576-03 0005 Thrombosis research program project - Molecular basis of von Willebrand's disease and hemophilia (human, cattle)
** P01HL-18576-03 0011 Thrombosis research program project - Proteolysis and platelet function (human, cattle, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-18584-03 Effects of physical forces on platelets (human)
R01HL-18625-03 Organization of arterial ground substance (cattle)
** R01HL-18650-03 Platelet collagen interaction (human)
R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
P01HL-18827-02 0003 Platelet vessel wall interactions in thrombogenesis - Tumor cell and platelets in thrombogenesis and metastasis (human, animals)
** P01HL-18827-02 0005 Platelet vessel wall interactions in thrombogenesis - Platelet vessel wall interactions in thrombogenesis (human)
M P50HL-18828-03 Specialized center of research in thrombosis
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
** P50HL-18828-03 0004 Specialized center of research in thrombosis - Membrane changes in platelet physiology--Role of complement (mice, human)
** P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
** P50HL-18828-03 0008 Specialized center of research in thrombosis - Biochemistry, physiology--Platelets and subcellular platelet particles (human)
R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)
R01HL-18935-03 Platelets, fibrinogen, soluble fibrin interaction (human)
** R01HL-18937-03 Cyclic nucleotides and calcium in platelets (human)
** R01HL-19001-03 Atherosclerosis in bleeder and drug treated subjects (pigs)
R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
** R01HL-19278-03 Ristocetin induced platelet aggregation (human)
R01HL-19323-03 Studies of platelet microtubule protein
P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of cigarette smoking on atherosclerosis (baboon)
** R01HL-19993-02 Optical detection of platelet aggregates (human, baboons)
R01HL-20079-02 0001 Thromboresistant material - Active and passive thromboresistant surfaces
R01HL-20079-02 0002 Thromboresistant material - Thromboresistant materials (sheep)
R01HL-20079-02 0003 Thromboresistant material - Blood surface interactions (human, cattle)
R01HL-20114-02 Collagen-platelet interaction and human aorta collagen (human)
** R01HL-20140-02 Glycoproteins of platelet membrane and platelet function (human)
** R01HL-20337-02 Thromboembolic diseases (human)
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)
R01HL-20517-03 Diabetes, somatotropin, factor VIII and atherosclerosis (human, animal)
R01HL-20520-03 Protein modification--The key to diabetic sequelae (human, animal)
** R01HL-20563-02 Restoring microcirculation after platelet aggregation
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
** R01HL-21001-01 Protein and thrombus deposition on vascular grafts
** R23HL-21128-02 ATP utilization in platelet contractile mechanisms (human, rabbits)
R01HL-21239-02 Isolation and mechanism of action of thromboxane A2 (human, rabbits)
R01HL-21487-01 Molecular characterization of Glanzmann's thrombasthenia (human)
R23HL-21490-02 Studies of enzymes in human platelet membranes
R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
R01HL-21769-01 Blood compatible benzamidine containing polymers
** R01HL-21988-01 Biochemistry of human platelet chemotaxis
** P01HL-22163-01 0001 Surface thrombogenesis--Mechanisms and prevention - Initial blood protein and platelet interactions with biomaterials (baboons)
P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)
R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease
** R01HL-22338-01 Platelet adhesion and aggregation in a flow chamber (human)
R01HL-22355-01 Purification, structure and function of factor VIII (human)
** R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)
R01HL-22445-01 Platelet inhibitors--Effect on coronary bypass grafts (dogs)
R01HL-22502-01 Role of phosphoinositides in human platelet secretion
R01HL-22582-01 Pulmonary and circulatory alterations induced by IGE
** R01HL-22585-01 Plasma proteins adsorbed to artificial organs (human, rabbits)
P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
R23HL-22621-01 Blood cell-mediated pulmonary (human)
** P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)
** R01HL-22738-01 Role of bioelectric potentials in platelet adherence (bats, rats, hamsters)
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
** R01HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)
** R01HL-22951-01 Studies on the affect of vitamin E on platelets (human, rats)
** R01HL-23010-01 Control and mechanism of platelet aggregation (human)
** R01HL-23114-01 Control of platelet aggregation in shock (dogs, rabbits)
R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces
** N01HV-52907-04 Interactions of platelets with collagens (human, mammals)

BLOOD PLATELETS DEFECTS QUALITATIVE

SEE BLOOD PLATELETS DISORDERS, THROMBOCYTOPATHY

BLOOD PLATELETS DISORDERS

SEE ALSO BLOOD AND RE DISORDERS, HEMORRHAGIC DISORDERS
SEE ALSO BLOOD COAGULATION DISORDERS
** P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
** R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
** R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
** R01HL-13629-08 Hemorrhagic diseases (human)
R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
** P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
** R01HL-14595-07 Primary disorders of platelet function (human, rats)
R01HL-14637-05 Thrombopoietin--Immunoassay and characterization (mice)
R01HL-15616-04 Platelet membrane proteins in aggregation (human)
R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
P01HL-16387-04 0009 The blood vessel and thrombogenesis - Role of pituitary gland in the pathogenesis of arteriosclerotic lesions (rats)
R01HL-16720-02 Platelet aggregation (human)
** P01HL-17430-05 0007 Control of coagulation - Platelet adhesion, aggregation, ultrastructure in flowing blood (human, animals)
R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)
P01HL-17812-04 0002 Thrombosis and plasma proteins - Activators of fibrinolysis--Synthesis and degradation (human, cattle)
R01HL-18586-03 Role of platelet lipids in hemostasis and thrombosis (human)
** R01HL-18650-03 Platelet collagen interaction (human)
R01HL-18815-03 Surgical vascular disorders (human, dogs)
** P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
** R01HL-19996-02 Role of membrane proteins in platelet function (human, rabbits)
R01HL-20140-02 Glycoproteins of platelet membrane and platelet function (human)
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)
R01HL-20794-02 Prostaglandin synthesis in human platelets (also in sheep, rabbit)
** R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)

BLOOD PLATELETS DISORDERS, THROMBOCYTHEMIA, HEMORRHAGIC

R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
R01HL-19270-03 Effects of erythropoiesis on platelets and hemostasis (rats)
** P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
P01HL-22602-01 0004 Pathophysiology of the endothelium - Endothelium, platelets smooth muscle and atherosclerosis (rabbits)

BLOOD PLATELETS DISORDERS, THROMBOCYTOPATHY

SEE ALSO BLOOD COAGULATION DISORDERS, VON WILLEBRAND'S DISEASE
R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)
P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
R01HL-14595-07 Primary disorders of platelet function (human, rats)
R01HL-15616-04 Platelet membrane proteins in aggregation (human)
** R01HL-21487-01 Molecular characterization of Glanzmann's thrombasthenia (human)
R01HL-23010-01 Control and mechanism of platelet aggregation (human)

BLOOD PLATELETS DISORDERS, THROMBOCYTOPENIA

** P01HL-07896-15 0057 Environmental biomedical research program - Effects of dipyridamole and aspirin on decompression thrombocytopenia (human)
R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activity (human)
R01HL-14739-06 The role of leukocytes in thrombotic disease (human, dogs)
P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)
P01HL-16411-04 0004 Blood systems in coagulation and vessel disease - Platelets reactions in vascular injury (human, animals)
R01HL-16646-05 Pathobiology of thromboembolic disorders (human)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
** R01HL-16757-04 'Autoimmune' thrombocytopenia (monkey)
P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
R01HL-20140-02 Glycoproteins of platelet membrane and platelet function (human)
R01HL-20818-02 Platelet storage at 22 degrees C (human)
R01HL-20856-02 Platelet transfusions--Usage and complications (human)
R01HL-20924-02 Atherosclerosis and arterial cell functions (human, rabbits)
R01HL-21429-02 Transport of LDL in arterial wall (human, mammals)
R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)

BLOOD PLATELETS DISORDERS, THROMBOCYTOPENIC PURPURA

** R01HL-13336-09 Biochemistry and physiology of human platelets
** R01HL-13629-08 Hemorrhagic diseases (human)
P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)
** P01HL-18576-03 0011 Thrombosis research program project - Proteolysis and platelet function (human, cattle, rabbits)
P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)

BLOOD PRESERVATION

SEE ALSO BLOOD AND RE SYSTEM, BLOOD FRACTIONATION
** R01HL-07449-17 Formation and survival of red blood cells (human)
M P01HL-09011-15 A research and resource program in blood
P01HL-09011-15 0017 A research and resource program in blood - Operations research laboratory
** P01HL-09011-15 0022 A research and resource program in blood - Cryopreservation of blood components (human)
R01HL-11154-12 Blood group antigens and antibodies (human)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL 15722-06 Hemorrheology studies related to in vivo blood flow (human)
** R01HL-16931-04 Red cell storage and translusion (human, animals)
M P60HL-17265-04 Community blood resource center support
P60HL-17265-04 0001 Community blood resource center support - Demonstration and evaluation
** P60HL-17265-04 0007 Community blood resource center support - Research-Massive transfusion and trauma (human)
** R01HL-17479-04 Blood storage-The production of cardiotoxic material (dogs, human, swine)
** R01HL-22671-01 Removal of senescent and stored human red cells

BLOOD PRESERVATION, BLOOD BANKS, CENTERS-RESOURCES-REGISTRIES

** N01HB-62967-03 Blood banking services on a regional basis
** N01HB-62968-07 National blood banking data needs
N01HB-62970-02 Collection, function and transfusion of granulocytes
N01HB-62971-03 Collection, function and transfusion of granulocytes
N01HB-62972-05 Collection, function and transfusion of granulocytes
N01HB-62973-05 Collection, function and transfusion of granulocytes
** P01HL-09011-15 0017 A research and resource program in blood - Operations research laboratory
** P01HL-09011-15 0022 A research and resource program in blood - Cryopreservation of blood components (human)
R01HL-13567-06 Ion transport across cell membranes (human)
** R01HL-13881-08 The American Red Cross National Fractionation Center
R01HL-15722-06 Hemorrheology studies related to in vivo blood flow (human)
M P60HL-17265-04 Community blood resource center support
** P60HL-17265-04 0001 Community blood resource center support - Demonstration and evaluation
** P60HL-17265-04 0010 Community blood resource center support - Blood resources educational program

BLOOD PRESERVATION, LEUKOCYTE PRESERVATION

** P60HL-17265-04 0009 Community blood resource center support - Research--Developing granulocyte transfusion therapy (human, rabbit)
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)

BLOOD PRESERVATION, PLATELET PRESERVATION

** R01HL-13629-08 Hemorrhagic diseases (human)
P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activity (human)
** P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)
R01HL-18502-03 Enzymatic regulation of platelet function (human)
** R01HL-19323-03 Studies of platelet microtubule protein
** R01HL-19996-02 Role of membrane proteins in platelet function (human, rabbits)
** R01HL-20666-02 Cell biology of platelet preservation (human)
** R01HL-20695-02 Stored platelets (human)
** R01HL-20716-02 Freezing and electromagnetic thawing of platelets (rats)
** R01HL-20718-02 Microstructural integrity of stored human platelets
** R01HL-20788-02 Preservation of human platelets for transfusion
** R01HL-20818-02 Platelet storage at 22 degrees C (human)

BLOOD PRESSURE

SEE CARDIOVASCULAR FUNCTION, BLOOD PRESSURE

BLOOD PRESSURE GRADIENT TECHNIQUE

SEE CARDIOVASCULAR DISORDERS DIAGNOSIS, BLOOD PRESSURE GRADIENT TECHNIQUE*

BLOOD PROTEINS

SEE ALSO ALBUMINS, SERUM ALBUMIN
SEE ALSO BLOOD COAGULATION
SEE ALSO BLOOD PROTEINS DISORDERS
SEE ALSO GLOBULINS, CORTICOSTEROID BINDING GLOBULIN
SEE ALSO GLOBULINS, SERUM GLOBULINS
SEE ALSO HALOPROTEINS, THYROXINE BINDING PROTEINS
SEE ALSO HEMOPROTEINS, HAPTOGLOBINS
SEE ALSO HEMOPROTEINS, HEMOGLOBIN
SEE ALSO IMMUNOLOGY, COMPLEMENT
SEE ALSO METALLOPROTEINS, CERULOPLASMIN
SEE ALSO METALLOPROTEINS, FERRITIN
SEE ALSO METALLOPROTEINS, HEMERYTHRIN
SEE ALSO METALLOPROTEINS, HEMOCYANIN
SEE ALSO METALLOPROTEINS, TRANSFERRIN
N01HI-32926-10 Analysis of lipoproteins (animals)
** R01HL-02262-23 Mechanisms regulating plasma proteins and solutes (human, dogs)
P01HL 03174-23 0009 Mechanisms of acute vascular reaction to injury - Mast cell lipid interaction (human, rats)
M P01HL 09011 15 A research and resource program in blood
** P01HL-09011 15 0002 A research and resource program in blood - Biosynthesis of fibrinogen (dogs)
** R01HL-09739-13 Biophysical studies of proteins (human)
P01HL 11678 11 0036 Cardiovascular dynamics and their control - Pulmonary capillary dynamics and edema (dogs)
P01HL 12157 11 0055 Functions and mechanisms of cell membrane ion transport - Growth and development of synthetic strand heart cells in culture (chick embryo)
R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
R01HL 12839-09 Flow, transport and membrane phenomena in blood (human)
** R01HL-13596-07 Clearance of plasma proteins from alveoli
P01HL-13738-08 0004 Cardiac assist devices and artificial hearts - Hematological evaluation of prosthetic materials (calves)
R01HL-13881-08 The American Red Cross National Fractionation Center
P50HL 14147-08 0006 Specialized center of research in thrombosis - Clearance mechanisms of coagulation moieties (human, rabbits, rodents)
P60HL-15169-05 0018 Support for center for sickle cell disease - Studies on sickle cell disease (human, rats, dogs)
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
** R01HL-15491-06 Blood coagulation--Platelet-plasma protein interaction (human)
R01HL-15520-06 Total blood replacement by fluorocarbons and polyols (rats)
P01HL-15596-05 0017 Coagulation, fibrinolysis, hemostasis and hepatitis - Heparin and antithrombin III
P01HL-15596-05 0020 Coagulation, fibrinolysis, hemostasis and hepatitis - Affinity chromatography
R01HL-15646-03 Lipid studies in vascular smooth muscle cells (human, monkeys)
P60HL-15999-05 0020 Miami comprehensive sickle cell center - Deficiency in complement-dependent humoral immunity--Sickle cell disease (human)
** R01HL-16601-05 Structure and function of blood proteins (human, cattle)
R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
P60HL-17265-04 0002 Community blood resource center support - Research--Human factor VIII
P60HL-17265-04 0003 Community blood resource center support - Research--Human factor IX--Role in intrinsic clotting (also baboons, dogs)
P01HL-17430-05 0002 Control of coagulation - Isolation of ristocetin--von Willebrand factor (swine)
** R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
M P01HL-17812-04 Thrombosis and plasma proteins
P01HL-17812-04 0001 Thrombosis and plasma proteins - Thrombosis and plasma proteins (cattle, guinea pigs)
P01HL-17812-04 0004 Thrombosis and plasma proteins - Serum-platelet interaction (human)
P01HL-17812-04 0005 Thrombosis and plasma proteins - In vitro systems of normal platelets, white cells, sera (human)
** P01HL-17812-04 0007 Thrombosis and plasma proteins - Blood components--Response to endotoxin (dogs, baboons)
R01HL-17995-04 Cellular synthesis and release of mucopolysaccharides (rabbits)
R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)
R01HL-18012-04 Cellular defects in nocturnal hemoglobinuria (human)
R01HL-18321-03 Fluid shear or magnetic alignment of blood components (human)
R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
** R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)
** P50HL-19157-02 0008 Studies in cystic fibrosis and bronchiolitis - Serum proteins in cystic fibrosis (human)
R01HL-19316-03 Study of glomerular permeability (fish, turtle, frog, chordates, crustacea)
R01HL-19399-02 Atherosclerosis--Early events and regression factors (rats)
** R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R01HL-19539-03 Pathology of hypertensive-associated arteritis (rabbits)
R01HL-20079-02 0001 Thromboresistant material - Active and passive thromboresistant surfaces
** R01HL-20079-02 0003 Thromboresistant material - Blood surface interactions (human, cattle)
** R01HL-20106-02 Coupling of platelet contractile proteins to fibrin (human)
R01HL-20301-02 Genetics of glycosyltransferases in human blood
R01HL-20846-02 Purification of bovine plasminogen proactivator
P50HL-21006-02 0003 Specialized center of research in arteriosclerosis - Transport of vitamin A in plasma (human, rat)
R23HL 21050-02 Mechanisms of re-expansion pulmonary edema (rabbits)
R01HL 21498-02 Pathophysiology of edema (rats, cats)
R01HL 21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
R01HL 21592-01 Lipoproteins and coagulation factors in atherosclerosis (pigeons)
R01HL 21644-01 Fibronectin and related glycoproteins (human, rodents)
** R01HL 21791-01 Precipitation of proteins with poly (ethylene glycol) (human)
R01HL 21988-01 Biochemistry of human platelet chemotaxis
** P01HL-22163-01 0001 Surface thrombogenesis - Mechanisms and prevention - Initial blood protein and platelet interactions with biomaterials (baboons)
P01HL 22163-01 0003 Surface thrombogenesis - Mechanisms and prevention - In vivo mechanisms of biomaterial thrombogenesis and its prevention (baboons)
** R01HL-22530-01 Active site studies on blood proteases (human)
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
** R01HL-22585-01 Plasma proteins adsorbed to artificial organs (human, rabbits)
** P01HL-22602-01 0002 Pathophysiology of the endothelium - Molecular charge and endothelial permeability (rats, mice)
** R23HL-22933-01 Transvascular fluid and protein exchange in the lung (sheep)
** R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces
** N01HR-72923-01 Cystic fibrosis factor identification and quantification (human)
** N01HV-32917-08 Materials development and testing

BLOOD PROTEINS DISORDERS

SEE ALSO HEMOPROTEINS, HEMOGLOBIN, METHEMOGLOBIN
SEE ALSO HEMOPROTEINS, METHEMOGLOBINEMIA
SEE ALSO LIPOPROTEINS BLOOD, DYSLIPOPROTEINEMIAS
P01HL-09011-15 0005 A research and resource program in blood - Characterization of hepatitis-B antigen and the cause of serum hepatitis (human)
R01HL-09163-13 Control mechanisms in hemostasis (human)
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
** R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)
** R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)

BLOOD PROTEINS DISORDERS, HYPERVISCOSITY SYNDROME

R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
** R01HL-19456-03 Immunoglobulins associated with serum hyperviscosity (human)

BLOOD PROTEINS DISORDERS, HYPOPROTEINEMIA

SEE ALSO LIPOPROTEINS BLOOD, HYPOLIPOPROTEINEMIA
R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)

BLOOD PROTEINS DISORDERS CONGENITAL

SEE ALSO BLOOD COAGULATION DISORDERS
SEE ALSO HEMOPROTEINS, HEMOGLOBINOPATHIES
SEE ALSO METABOLIC DISORDERS INBORN, ACATALASEMIA
SEE ALSO METABOLIC DISORDERS INBORN, HEPATOLENTICULAR DEGENERATION
SEE ALSO METABOLIC DISORDERS INBORN, HYPOLIPOPROTEINEMIAS FAMILIAL, ABETALIPOPROTEINEMIA
SEE ALSO METABOLIC DISORDERS INBORN, HYPOLIPOPROTEINEMIAS FAMILIAL, TANGIER DISEASE
** R01HL-02799-22 Abnormal hemoglobins (human)
** P01HL-06350-17 0015 Hemostasis research program project - Genetics (human)
** R01HL-07449-17 Formation and survival of red blood cells (human)
R01HL-09163-13 Control mechanisms in hemostasis (human)
** R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)
** R01HL-16872-04 Antihemophilic factor (human)
R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
R01HL-19267-02 Serial comparative study of Von Willebrand's disease (human)
R01HL-20074-02 Structure and function of amidinated human hemoglobin
** R01HL-20092-02 Structural and biological properties of fibrinogen (human, rabbits)
** R01HL-20142-02 Functional studies of abnormal human hemoglobins
R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
R01HL-20920-01 Control of hemoglobin synthesis (baboon)
R01HL-21403-02 Blood clotting kinetics studied by radioimmunoassay (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R23HL-21730-01 vWagII--A new vWO deficient antigen (human)
** R01HL-22505-01 Molecular pathology of fibrinogen and factor XIII (human, animals)
R23HL-22799-01 Interaction of the complement and coagulation systems (monkeys)

BLOOD REPLACEMENT PERFUSION (WHOLE BODY)

SEE BLOOD TREATMENT, WHOLE BODY PERFUSIDN (BLDOD REPLACEMENT)

BLOOD RESOURCES - REGISTRIES

SEE BLOOD PRESERVATION, BLOOD BANKS, CENTERS-RESOURCES-REGISTRIES

BLOOD RHEOLOGY

SEE ALSO BLODO OSMOTIC PRESSURE
SEE ALSD BLDOD VISCDSITY-VISCOELASTICITY
SEE ALSD CARDIOVASCULAR DISOROERS OIAGNDSIS, BLDOD FLDW MEASUREMENTS*
SEE ALSD CARDIOVASCULAR FUNCTIDN, BLDDO CIRCULATION DYNAMICS (GENERAL)
SEE ALSD CAROIOVASCULAR FUNCTION, BLOOO FLDW
SEE ALSD CARDIOVASCULAR FUNCTIDN, BLOOD FLOW IMPEOANCE
SEE ALSO CARDIDVASCULAR FUNCTION, BLOOD FLDW DSCILLATORY
SEE ALSD CARDIDVASCULAR FUNCTIDN, VASOMOTIDN, PULSE PRESSURE WAVES
SEE ALSO HEART DISOROERS OIAGNOSIS, FICK METHDD*
** R01HL-11901-12 0017 Effects of metabolic surgery on the hyperlipidemias - Membrane permeability, blood viscosity, oxygen uptake--Rheology studies (rabbits)
** P01HL-12738-10 0069 Physiologic pharmacology and its clinical applications - Blood rheology in coronary heart disease (dogs)
** R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
R01HL-13426-09 Left ventricular bypass for myocardial infarction (cattle, human)
** P01HL-14388-07 0217 Regulation of the circulation in pathological states - Fluid mechanics of aortic flow (dogs, human)
** P60HL-15162-07 0019 Comprehensive sickle cell center - RBC-Blood rheology in sickle cell anemia and related disorders (human, animal)
R01HL-15270-06 Local mechanical properties of the aortic tissue (dogs, pigs)
** R01HL-15722-06 Hemorrheology studies related to in vivo blood flow (human)
R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
P01HL-16387-04 0005 The blood vessel and thrombogenesis - Fluid engineering considerations in thrombogenesis
** R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
R01HL-16580-04 Mathematical models for studying sickle-cell disease
** R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
** P01HL-16833-04 0009 Hemoglobin and red cell system in hemoglobinopathies - Rheological studies of sickled cells (human)
M P01HL-16851-04 Human red cell membrane in health and disease
** P01HL-16851-04 0001 Human red cell membrane in health and disease - Rheology of erythrocyte membrane (human, amphiuma)
** P01HL-16851-04 0003 Human red cell membrane in health and disease - Modeling membrane mechanics and blood rheology
P01HL-16851-04 0005 Human red cell membrane in health and disease - Relation of hemoglobin species to membrane properties (human)
** P01HL-16851-04 0008 Human red cell membrane in health and disease - Force balance in red cell interactions (human)
P01HL-16851-04 0009 Human red cell membrane in health and disease - Blood cell properties in circulatory regulation (dogs, rabbits)
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
** R01HL-17408-03 Fresh blood rheology--Relation to cardiovascular risk (human)
R01HL-17591-03 Development of electromagnetic rheoangiography (human, dogs)
R01HL-17821-03 Cavitation phenomena near prosthetic devices
M P01HL-18208-04 Center for the study of blood cell rheology
P01HL-18208-04 0004 Center for the study of blood cell rheology - Splenic microcirculation (rats, mice)
** P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
P01HL-18208-04 0006 Center for the study of blood cell rheology - Analysis of flow in arterioles and capillaries (human)
** R01HL-18321-03 Fluid shear or magnetic alignment of blood components (human)
** P50HL-18323-04 0042 SCDR hypertension center - Blood viscosity and blood volume in hypertensive disease (human, dog)
R01HL-18584-03 Effects of physical forces on platelets (human)
R01HL-18672-03 Dynamic studies of clot structure formation (human)
** R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
** R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
R01HL-19993-02 Optical detection of platelet aggregates (human, baboons)
R01HL-20079-02 0003 Thromboresistant material - Blood surface interactions (human, cattle)
R01HL-20163-02 Competitive coronary flow in native and graft vessels (dog)
R01HL-20177-02 Effects of erythrocyte deformability on tissue perfusion (rats)
** R01HL-20829-02 Fluid mechanics of heart valve prostheses (dogs, human)
** P60HL-20985-01 0003 Northern California sickle cell center - Kinetics of sickling and clinical manifestations in sickling disorders (human)
R01HL-21001-01 Protein and thrombus deposition on vascular grafts
P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
P01HL-21016-02 0013 Sickle cell anemia and other hemoglobinopathies - Microcirculatory response to sickle cell treated with anti-sickling agents (rats)
** R01HL-21188-02 Pulsatory water flux and endothelial cell desquamation
R01HL-21270-01 Correlation of arterial hemodynamics and morphology (human)
** R01HL-21859-01 Unsteady flow in arterial bifurcations (human)
** R01HL-22233-01 Characterization of bio-materials by elastic property
** R01HL-22338-01 Platelet adhesion and aggregation in a flow chamber (human)
R01HL-22455-01 Platelet concentration in the marginal layer (dogs, human)
R01HL-22783-01 Hemodynamic induction of intimal fibromuscular lesion
** R01HL-23267-01 Rheology and kinetics of hemoglobin S gelation (human)
R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces

BLOOD STASIS

R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
** R01HL-01648-31 Blood coagulation and hemophilia (dogs, swine)
** R01HL-01661-27 Hemostatic mechanisms (human)
** R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
M P01HL-06350-17 Hemostasis research program project
P01HL-06350-17 0005 Hemostasis research program project - Purification of plasma antihemophilic factor (human)
** P01HL-06350-17 0015 Hemostasis research program project - Genetics (human)
P01HL-06350-17 0018 Hemostasis research program project - Varients of factors IX (human, cattle)
P01HL-06350-17 0019 Hemostasis research program project - Microcirculation (human, rats, rabbits)
P01HL-06350-17 0020 Hemostasis research program project - Structure and function of coagulant venom proteases
** R01HL-09163-13 Control mechanisms in hemostasis (human)
** R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-11775-11 Platelet mechanisms in disease (human, primates)
** R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
R01HL-13160-08 Human thrombin (also cattle)
R01HL-13198-21 Blood coagulation--Physico-chemical properties (human, cattle)
P01HL-13262-07 0022 Arterial wall in atherosclerosis - Mechanisms of platelet prostaglanoin formation
P01HL-13737-07 0002 Assisted circulation - U-shaped mechanical auxiliary ventricle (dogs)
** P01HL-13737-07 0026 Assisted circulation - Hemostatic mechanism (human, dogs)
P50HL-14147-08 0017 Specialized center of research in thrombosis - Core coagulation laboratory (human)
P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activity (human)
R01HL-14344-07 Platelet function and adenine nucleotide metabolism (human)
R01HL-14595-07 Primary disorders of platelet function (human, rats)
** R01HL-14697-07 Role of platelet membranes in hemostasis (human)
R01HL-14992-07 Mechanism of thrombin action (human)
P01HL-15195-04 0004 Program project in biological materials - Biological evaluation and surface interaction studies (dogs)
** R01HL-15335-06 The nature of the collagen-platelet interaction (animals)
R01HL-15474-06 Structure and function of the antihemophilic factor (human, cattle)
M P01HL-15486-06 Studies on thrombosis
R01HL-15491-06 Blood coagulation--Platelet-plasma protein interaction (human)
M P01HL-15596-05 Coagulation, fibrinolysis, hemostasis and hepatitis
R01HL-15616-04 Platelet membrane proteins in aggregation (human)
R01HL-15690-07 Hydrolytic enzymes of blood in health and disease (human, animals)
P01HL-16387-04 0005 The blood vessel and thrombogenesis - Fluid engineering considerations in thrombogenesis
P01HL-16387-04 0006 The blood vessel and thrombogenesis - Mechanism of delayed vessel graft failure (dogs, rabbits)
** P01HL-16387-04 0008 The blood vessel and thrombogenesis - Factor VIII in hemostasis (human, rabbits)
** P01HL-16411-04 0003 Blood systems in coagulation and vessel disease - Molecular events involving the late stages of coagulation (rabbits)
** P01HL-16411-04 0005 Blood systems in coagulation and vessel disease - Chemical analysis of serum components associated with coagulation (human, animal)
R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
P60HL-17265-04 0001 Community blood resource center support - Demonstration and evaluation
** P60HL-17265-04 0007 Community blood resource center support - Research--Massive transfusion and trauma (human)
M P01HL-17419-04 Studies on mechanisms of hemostasis
** P01HL-17419-04 0001 Studies on mechanisms of hemostasis - Structure and metabolism of fibrinogen (human)
** P01HL-17419-04 0003 Studies on mechanisms of hemostasis - Characterization of fibrinogen (human)
** P01HL-17419-04 0006 Studies on mechanisms of hemostasis - Effect of hormones, drugs and other agents on fibrinogen synthesis (chick)
** P01HL-17419-04 0007 Studies on mechanisms of hemostasis - Structural analysis of ordered forms of fibrinogen (human, cattle)
M P01HL-17430-05 Control of coagulation
** P01HL-17430-05 0001 Control of coagulation - Porcine von Willebrand's disease
P01HL-17430-05 0002 Control of coagulation - Isolation of ristocetin--von Willebrand factor (swine)
P01HL-17430-05 0005 Control of coagulation - The activation of prothrombin (human, cattle, dogs)
P01HL-17430-05 0007 Control of coagulation - Platelet adhesion, aggregation, ultrastructure in flowing blood (human, animals)
R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)
R01HL-17513-04 Role of PF-4 in detecting and promoting thrombosis (human, primates)
R01HL-17525-03 Molecular basis of collagen-platelet interaction (human, rat)
R01HL-17729-04 Stimulus-response coupling in platelets (human)
R01HL-17930-03 Platelet membrane function--Assessment and application (animals)
** R01HL-18030-04 The role of contractile proteins in platelets (human, rabbits)
R01HL-18321-03 Fluid shear or magnetic alignment of blood components (human)
R01HL-18502-03 Enzymatic regulation of platelet function (human)
M P01HL-18576-03 Thrombosis research program project
P01HL-18576-03 0004 Thrombosis research program project - Mechanism and control of collagen-platelet interaction
** P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
** P01HL-18576-03 0009 Thrombosis research program project - Biology of factor VII (human, rabbits, cattle)
P01HL-18576-03 0012 Thrombosis research program project - Synthetic anticoagulant and thrombolytic agents (dogs)
** R01HL-18586-03 Role of platelet lipids in hemostasis and thrombosis (human)
R01HL-18650-03 Platelet collagen interaction (human)
R01HL-18815-03 Surgical vascular disorders (human, dogs)
P01HL-18827-02 0007 Platelet vessel wall interactions in thrombogenesis - Biochemistry and role factor V in thrombogenesis (human, cattle)
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-18828-03 0002 Specialized center of research in thrombosis Endothelial cell biology (human, guinea pig)
R01HL-18834-04 Metal-dependant complex formation in blood coagulation (human, cattle)
R01HL-18935-03 Platelets, fibrinogen, soluble fibrin interaction (human)
** R01HL-19270-03 Effects of erythropoiesis on platelets and hemostasis (rats)
R01HL-19282-03 Regulation of the activation of human factor X
R01HL-19996-02 Role of membrane proteins in platelet function (human, rabbits)
R01HL-20014-02 Radioimmunoassay of hyper and hypocoagulable states (rabbits)
R01HL-20106-02 Coupling of platelet contractile proteins to fibrin (human)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R01HL-20846-02 Purification of bovine plasminogen proactivator
R01HL-20956-02 Early events following stimulation of human platelets
P01HL-21016-02 0013 Sickle cell anemia and other hemoglobinopathies Microcirculatory response to sickle cell treated with anti-sickling agents (rats)
R01HL-21113-01 Control mechanisms in coagulation (cattle)
R01HL-21217-01 Ion and 5-hydroxytryptamine transport by platelets
R01HL-21379-01 Structure of factor VIII-Von Willebrand protein (human)
R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
R01HL-21487-01 Molecular characterization of Glanzmann's thrombasthenia (human)
R23HL-21490-02 Studies of enzymes in human platelet membranes
R01HL-21988-01 Biochemistry of human platelet chemotaxis
** R01HL-22289-01 Endothelial cell mediated fibrinolysis (rabbits)
R01HL-22355-01 Purification, structure and function of factor VIII (human)
R01HL-22502-01 Role of phosphoinositides in human platelet secretion
R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
R01HL-22671-01 Removal of senescent and stored human red cells
R01HL-22955-01 inetics of prothrombin activation

BLOOD SUBSTITUTES

** R01HL-15520-06 Total blood replacement by fluorocarbons and polyols (rats)
** R01HL-16643-02 Fluorocarbon emulsions as artificial blood (animals)
R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
** R01HL-17794-03 Chelating agents as blood substitutes
** R01HL-17844-04 Artificial blood substitutes--02-binding iron chelates (human, mammals)
** R01HL-23120-01 Chelating agents as blood substitutes

BLOOD SUBSTITUTES, PLASMA SUBSTITUTES

P01HL-11678-11 0034 Cardiovascular dynamics and their control - Renal function curves in intact dogs
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)

BLOOD SUGAR

SEE CARBOHYDRATE BALANCE, BLOOD SUGAR

BLOOD SUPPLY

SEE CARDIOVASCULAR SYSTEM, BLOOD SUPPLY

BLOOD SUPPLY OF NEOPLASMS

SEE NEOPLASMS VASCULAR SUPPLY

BLOOD (HEMATOLOGIC) TESTS*

** R01HL-10567-12 Erythropoietin--Immunoassay and characterization (dogs)
** P50HL-14230-07 0097 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)
P60HL-15158-07 0008 Comprehensive sickle cell center - Core laboratory of the center
P60HL-17265-04 0001 Community blood resource center support - Demonstration and evaluation
** R01HL-18256-01 Optical properties of platelets and erythrocytes (rabbits, dogs, human)

BLOOD (HEMATOLOGIC) TESTS, BLOOD CELL COUNT*

R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
R01HL-11152-12 Vascular physiology (human, cats, dogs)
R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
** P01HL-12738-10 0069 Physiologic pharmacology and its clinical applications Blood rheology in coronary heart disease (dogs)
P01HL-14985-07 0013 Adaptation to hypoxia Chronic mountain sickness (men)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
P60HL-15169-05 0019 Support for center for sickle cell disease Central screening and reference laboratory
R01HL-15520-06 Total blood replacement by fluorocarbons and polyols (rats)
P01HL-16851-04 0009 Human red cell membrane in health and disease - Blood cell properties in circulatory regulation (dogs, rabbits)
P01HL-18208-04 0003 Center for the study of blood cell rheology - Bone marrow microcirculation (rats, mice)
R01HL-18321-03 Fluid shear or magnetic alignment of blood components (human)
P50HL-19153-02 0005 SCOR--Pulmonary edemas--Etiology, pathogenesis - Lung vascular permeability measured by indicator dilution methods (sheep)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
R01HL-19270-03 Effects of erythropoiesis on platelets and hemostasis (rats)
R01HL-19993-02 Optical detection of platelet aggregates (human, baboons)
P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)

BLOOD (HEMATOLOGIC) TESTS, BLOOD SEDIMENTATION, ERYTHROCYTE*

R01HL-18321-03 Fluid shear or magnetic alignment of blood components (human)

BLOOD (HEMATOLOGIC) TESTS, OSMOTIC FRAGILITY*

R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
R01HL-20882-02 Interactions of plasma lipoproteins with erythrocytes (Rhesus, human)

BLOOD TOXICOLOGY

SEE ALSO IMMUNOLOGICAL TESTS AND IMMUNOASSAY, HEMAGGLUTINATION*
N01HB-22919-08 Hemoglobin carbamylation in the treatment of sickle cell anemia (human, dogs)
N01HB-22922-08 Develop effective therapy for sickle cell disease (human, dogs)
P01HL-09011-15 0022 A research and resource program in blood - Cryopreservation of blood components (human)
R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)
N01HV-32950-08 Blood compatible poly-electrolytes
N01HV-32953-10 Materials compatible with blood (dogs)

BLOOD TOXICOLOGY, BACTEREMIA-SEPTICEMIA

** R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
R01HL-03181-21 0029 Hemodynamics as applied to surgical problems - Indocyanine green clearance for estimation of hepatic blood flow (human)
P01HL-06350-17 0019 Hemostasis research program project - Microcirculation (human, rats, rabbits)
R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
M P01HL-08682-15 Regulation of the cardiovascular system
** P01HL-08682-15 0019 Regulation of the cardiovascular system - Hepatic immunophysiology and host-defense in shock (rat, dog, human)
** P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
** P01HL-08682-15 0021 Regulation of the cardiovascular system - Hypoglycemia in pathogenesis of shock (dog)
** P01HL-08899-14 0010 Tolerance to respiratory gases in health and disease - High oxygen pressure in septic shock (human)
** R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
P60HL-15162-07 0021 Comprehensive sickle cell center - Pneumococcal vaccine in sickle cell disease (children)
P60HL-15169-05 0009 Support for center for sickle cell disease - Infections in sickle cell anemia (human)
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
P01HL-16411-04 0004 Blood systems in coagulation and vessel disease - Platelets reactions in vascular injury (human, animals)
R01HL-16642-05 Biochemistry and pathophysiology of plasma kallikrein (human, animals)
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
** R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)
** R01HL-17751-03 Experimental endocarditis (rabbits)
** P01HL-17812-04 0007 Thrombosis and plasma proteins - Blood components--Response to endotoxin (dogs, baboons)
R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
P50HL-19153-02 0001 SCOR-Pulmonary edemas-Etiology, pathogenesis Prostaglandins and the lung circulation (sheep)
P50HL-19153-02 0002 SCOR-Pulmonary edemas-Etiology, pathogenesis Lung fluid dynamics-Classical mediators and their inhibitors (sheep)
** P50HL-19153-02 0003 SCOR-Pulmonary edemas-Etiology, pathogenesis Possible inhibitors of mediator release and pulmonary vascular response (sheep)
R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-19725-03 Complement induced pulmonary injury (dogs, rabbits, sheep)
** R01HL-19977-02 Genesis of circulatory shock by pancreatic peptides (cats, dogs)
R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
R01HL-20787-02 Thromboxanes and prostaglandins Biochemical pharmacology (rabbits, human)
R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
R01HL-21172-02 Regional oxygen consumption of heart and other organs (animals)
R01HL-22435-02 Pulmonary alveolar-capillary permeability characteristic (dogs)
R01HL-22520-01 Pulmonary vascular response to group B Streptococci (human, mammals)
** R01HL-23114-01 Control of platelet aggregation in shock (dogs, rabbits)
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)

BLOOD TOXICOLOGY, HEMOLYSINS

SEE ALSO BLOOD CELLS, ERYTHROCYTES, HEMOLYSIS
SEE ALSO PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, LYSOLECITHIN
R01HL-19532-01 Oxygen toxicity in the red cell (human)

BLOOD TOXICOLOGY, HEMOTOXINS

** R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)

BLOOD TRANSFUSION

SEE ALSO BLOOD GROUP INCOMPATIBILITY
SEE ALSO BLOOD SUBSTITUTES
SEE ALSO CARDIOVASCULAR SURGERY, EXTRACORPOREAL CIRCULATION, CROSS CIRCULATION
N01HB-62963-03 International bone marrow transplant registry
N01HB-62964-03 International bone marrow transplant registry
R01HL-08696-15 0011 Orthotopic heart transplantation - Transplantation immunology--Immunodepressive factor (human, dogs)
P01HL-09011-15 0017 A research and resource program in blood - Operations research laboratory
P01HL-09011-15 0022 A research and resource program in blood - Cryopreservation of blood components (human)
** R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
** P01HL-11310-12 0095 Mechanisms of cardiovascular disease - Blood and transfusion disorders (human, rats, monkeys)
P60HL-15158-07 0004 Comprehensive sickle cell center - Expression of abnormal hemoglobin synthesis in the neonate and young child
P60HL-15158-07 0012 Comprehensive sickle cell center - Clinical services--Pediatric patients
** P60HL-15160-07 0011 Center for sickle cell disease - Study of human sickle cells in an animal model (rats)
** P60HL-15160-07 0014 Center for sickle cell disease - Replacement therapy of opsonin deficiency in sickle cell anemia (children)
P60HL-16008-06 0014 Wayne State University comprehensive sickle cell center - Zinc and red blood cell metabolism in sickle cell anemia (rats, human)
R01HL-16626-05 Studies of antibodies to antihemophilic factors (human, rabbits)
** R01HL-16931-04 Red cell storage and transfusion (human, animals)
M P60HL-17265-04 Community blood resource center support
P60HL-17265-04 0001 Community blood resource center support - Demonstration and evaluation
** P60HL-17265-04 0007 Community blood resource center support - Research--Massive transfusion and trauma (human)
P60HL-17265-04 0008 Community blood resource center support - Research--Blood genetic markers as biological probes (human)
P01HL-17430-05 0001 Control of coagulation - Porcine von Willebrand's disease
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)
P01HL-18646-03 0004 Studies basic to heart transplantation - Presensitization--Detection, incidence and clinical significance
R01HL-19898-03 Desferrioxamine therapy in thalassemia (dogs, rats, children)
** R01HL-19946-03 Reduction of iron overload in thalassemia (children, rabbits, dogs, monkeys)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-19961-03 Management of hemosiderosis in thalassemia (childrenn adults)
** R01HL-19993-02 Optical detection of platelet aggregates (human, baboons)
R01HL-20000-03 Iron overload in homozygous beta thalassemia (human)
R01HL-20016-03 Chelator development for thalassemia (human, mice, rats, dogs, monkeys)
R01HL-20141-02 Biochemical approaches to management of iron overload (human, sheep, dogs)
P60HL-20985-01 0007 Northern California sickle cell center - Immunohematologic abnormalities in sickle cell anemia (human)
R01HL-22671-01 Removal of senescent and stored human red cells
** R01HL-22838-01 Post-transfusion hepatitis in newborn children
P60HL-23282-01 0002 Comprehensive hospital/community sickle cell center - Clinical evaluation of alternate pathaway of compliment activation
** R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)

BLOOD TRANSFUSION, AUTOTRANSFUSION
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-18815-03 Surgical vascular disorders (human, dogs)
R01HL-20716-02 Freezing and electromagnetic thawing of platelets (rats)
** R01HL-22005-01 Intermittent retroperfusion of ischemic myocardium (dogs)

BLOOD TRANSFUSION, BLOOD DONORS
N01HB-62970-02 Collection, function and transfusion of granulocytes
N01HB-62973-05 Collection, function and transfusion of granulocytes
P01HL-09011-15 0017 A research and resource program in blood - Operations research laboratory
** P01HL-09011-15 0018 A research and resource program in blood - Hepatitis B in normal populations--Epidemiology, risk factors and transmission
P01HL-09011-15 0020 A research and resource program in blood - Passive immunization in the prevention of transmission of hepatitis B (human)
P60HL-15996-06 0008 Cincinnati comprehensive sickle cell center - Patient care (children, adults)
** P60HL-17265-04 0001 Community blood resource center support - Demonstration and evaluation
R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)

BLOOD TRANSFUSION, EXCHANGE
SEE ALSO BLOOD TREATMENT, WHOLE BODY PERFUSION (BLOOD REPLACEMENT)
** P50HL-15061-07 0013 Response of lung to injury - Exchange transfusion in infants with respiratory distress syndrome (human, sheep)
R01HL-15215-06 Role of complement in intravascular coagulation (rabbits, mice)
** P60HL-16005-05 0021 Comprehensive sickle cell center - Management of pregnancy in sickle cell anemia (human)
P60HL-16005-05 0022 Comprehensive sickle cell center - Regulation of erythropoiesis in patients with sickle cell anemia
P01HL-19737-02 0006 Cellular and molecular aspects of respiratory physiology - Tissue oxygenation and mitochondrial respiratory activity (sheep)
R01HL-20337-02 Thromboembolic diseases (human)

BLOOD TRANSFUSION, LEUKOCYTE TRANSFUSION
** N01HB-62970-02 Collection, function and transfusion of granulocytes
** N01HB-62971-03 Collection, function and transfusion of granulocytes
** N01HB-62972-05 Collection, function and transfusion of granulocytes
** N01HB-62973-05 Collection, function and transfusion of granulocytes
** P60HL-17265-04 0009 Community blood resource center support - Research--Developing granulocyte transfusion therapy (human, rabbit)
R23HL-21997-01 Pulmonary immunopathology in the compromised host (guinea pigs)

BLOOD TRANSFUSION, PLATELET TRANSFUSION
P01HL-11310-12 0095 Mechanisms of cardiovascular disease - Blood and transfusion disorders (human, rats, monkeys)
R01HL-13629-08 Hemorrhagic diseases (human)
R01HL-14637-05 Thrombopoietin--Immunoassay and characterization (mice)
** P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)
R01HL-20716-02 Freezing and electromagnetic thawing of platelets (rats)
R01HL-20788-02 Preservation of human platelets for transfusion
R01HL-20818-02 Platelet storage at 22 degrees C (human)
** R01HL-20856-02 Platelet transfusions--Usage and complications (human)

BLOOD TREATMENT, BLOOD FILTERS
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
P60HL-17265-04 0009 Community blood resource center support - Research--Developing granulocyte transfusion therapy (human, rabbit)
R01HL-19993-02 Optical detection of platelet aggregates (human, baboons)
** R01HL-20554-02 Memory-alloy-filters for venous emboli (dogs)

BLOOD TREATMENT, BLOOD FILTERS, VENA CAVA FILTERS
** P01HL-11414-11 0027 Thrombosis and atherosclerosis program - Thermal memory wire filter to prevent pulmonary embolism (human, dogs)

BLOOD TREATMENT, HEMODIALYSIS
SEE ALSO KIDNEY PROSTHESIS, ARTIFICIAL KIDNEY
** N01HB-22919-08 Hemoglobin carbamylation in the treatment of sickle cell anemia (human, dogs)
** N01HB-22922-08 Develop effective therapy for sickle cell disease (human, dogs)
** N01HB-62962-02 Red cell distributions in cyanate-treated blood (human, sheep)
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
** P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
P01HL-09011-15 0020 A research and resource program in blood - Passive immunization in the prevention of transmission of hepatitis B (human)
P01HL-09011-15 0023 A research and resource program in blood - Evaluation of hepatitis B vaccine in endemic settings (human)
P01HL-11310-12 0084 Mechanisms of cardiovascular disease - Evaluation of cardiac function in chronic renal failure (human)
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)
R01HL-14133-08 Intrarenal regulation of sodium reabsorption (dogs, hamsters, rats)
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
** R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)
R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
** R01HL-20141-02 Biochemical approaches to management of iron overload (human, sheep, dogs)
R01HL-20177-02 Effects of erythrocyte deformability on tissue perfusion (rats)
R01HL-22627-01 An inhibitor of platelet adhesion to artificial organs (human)
R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces

BLOOD TREATMENT, LEUKAPHERESIS
P60HL-17265-04 0009 Community blood resource center support - Research--Developing granulocyte transfusion therapy (human, rabbit)

BLOOD TREATMENT, PLASMAPHERESIS
P01HL-11414-11 0033 Thrombosis and atherosclerosis program - Human coumarin-induced prothrombin
P01HL-17430-05 0001 Control of coagulation - Porcine von Willebrand's disease
P01HL-17430-05 0002 Control of coagulation - Isolation of ristocetin--von Willebrand factor (swine)

BLOOD TREATMENT, PLATELETPHERESIS
P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)

BLOOD TREATMENT, WHOLE BODY PERFUSION (BLOOD REPLACEMENT)
** R01HL-15520-06 Total blood replacement by fluorocarbons and polyols (rats)
** R01HL-17844-04 Artificial blood substitutes--02-binding iron chelates (human, mammals)

BLOOD TYPES
SEE BLOOD GROUPS

BLOOD VESSELS
SEE CARDIOVASCULAR SYSTEM, BLOOD VESSELS (GENERAL)

BLOOD VESSELS DISORDERS (GENERAL)
SEE CARDIOVASCULAR DISORDERS, VASCULAR DISORDERS (GENERAL)

BLOOD VESSELS NEOPLASMS
SEE NEOPLASMS OF CARDIOVASCULAR SYSTEM

BLOOD VESSELS PRESERVATION
SEE CARDIOVASCULAR TISSUE PRESERVATION

BLOOD VESSELS PROSTHESIS
SEE CARDIOVASCULAR PROSTHESIS, BLOOD VESSELS PROSTHESIS

BLOOD VESSELS RESTORATION
SEE CARDIOVASCULAR SURGERY, BLOOD VESSELS RESTORATION

BLOOD VESSELS SHUNTS ARTERIOVENOUS ABNORMAL
SEE CARDIOVASCULAR DISORDERS, ARTERIOVENOUS SHUNTS ABNORMAL

BLOOD VESSELS SHUNTS ARTERIOVENOUS NORMAL
SEE CARDIOVASCULAR SYSTEM, ARTERIOVENOUS ANASTOMOSIS NORMAL

BLOOD VESSELS SHUNTS COLLATERAL CIRCULATION NORMAL
SEE CARDIOVASCULAR SYSTEM, BLOOD SUPPLY, COLLATERAL CIRCULATION

BLOOD VESSELS SHUNTS DUCTUS ARTERIOSUS EMBRYONIC
SEE CARDIOVASCULAR SYSTEM, DUCTUS ARTERIOSUS EMBRYONIC

BLOOD VESSELS SHUNTS SURGICAL
SEE CARDIOVASCULAR SURGERY, CARDIOVASCULAR SHUNTS

BLOOD VESSELS TRANSPLANTATION
SEE CARDIOVASCULAR TRANSPLANTATION, BLOOD VESSELS TRANSPLANTATION

BLOOD VISCOSITY-VISCOELASTICITY
SEE ALSO BLOOD PROTEINS DISORDERS, HYPERVISCOSITY SYNDROME
** R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
R01HL-08977-14 Quantitation of flow and solute flux in microvessels (cats, rats)
R01HL-11901-12 0017 Effects of metabolic surgery on the hyperlipidemias - Membrane permeability, blood viscosity, oxygen uptake--Rheology studies (rabbits)
R01HL-12256-15 Polymerization of sickle-cell hemoglobin (human)
P01HL-12738-10 0069 Physiologic pharmacology and its clinical applications - Blood rheology in coronary heart disease (dogs)
R01HL-12775-08 Cerebral microcirculation (mice)
P60HL-15157-07 0011 Comprehensive center for sickle cell disease - Development of specific anti-sickling compound (human)
P60HL-15162-07 0019 Comprehensive sickle cell center - RBC-Blood rheology in sickle cell anemia and related disorders (human, animal)
** P60HL-15996-06 0010 Cincinnati comprehensive sickle cell center - Whole blood viscosity in sickle cell anemia (human)
P01HL-16387-04 0005 The blood vessel and thrombogenesis - Fluid engineering considerations in thrombogenesis
R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
P01HL-16833-04 0008 Hemoglobin and red cell system in hemoglobinopathies - Membrane associated phenomena in SS disease
P01HL-16833-04 0009 Hemoglobin and red cell system in hemoglobinopathies - Rheological studies of sickled cells (human)
M P01HL-16851-04 Human red cell membrane in health and disease
** P01HL-16851-04 0001 Human red cell membrane in health and disease - Rheology of erythrocyte membrane (human, amphiuma)
P01HL-16851-04 0003 Human red cell membrane in health and disease - Modeling membrane mechanics and blood rheology
R01HL-16927-05 Structure and function of normal and abnormal hemoglobin (human)
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
R01HL-17408-03 Fresh blood rheology--Relation to cardiovascular risk (human)
P01HL-18208-04 0004 Center for the study of blood cell rheology - Splenic microcirculation (rats, mice)
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
P01HL-18208-04 0006 Center for the study of blood cell rheology - Analysis of flow in arterioles and capillaries (human)
** P50HL-18323-04 0042 SCOR hypertension center - Blood viscosity and blood volume in hypertensive disease (human, dog)
R01HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL 18584-03 Effects of physical forces on platelets (human)
R01HL-18672-03 Dynamic studies of clot structure formation (human)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
R01HL-20106-02 Coupling of platelet contractile proteins to fibrin (human)
P60HL-20985-01 0003 Northern California sickle cell center - Kinetics of sickling and clinical manifestations in sickling disorders (human)
P01HL-21016-02 0013 Sickle cell anemia and other hemoglobinopathies - Microcirculatory response to sickle cell treated with anti-sickling agents (rats)
R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
** R01HL-22233-01 Characterization of bio-materials by elastic property
R01HL-22455-01 Platelet concentration in the marginal layer (dogs, human)
** R01HL-23267-01 Rheology and kinetics of hemoglobin S gelation (human)
** R01HL-23900-01 Mechanical measurement of cell membrane viscosity (human)

BLOOD VOLUME
SEE CARDIOVASCULAR FUNCTION, BLOOD VOLUME

BLOODLETTING
P01HL-11310-12 0095 Mechanisms of cardiovascular disease - Blood and transfusion disorders (human, rats, monkeys)

BLOOM'S SYNDROME
SEE GENETIC DISORDERS, BLOOM'S SYNDROME

BODY CAVITIES, DIAPHRAGM
SEE ALSO BODY CAVITY DISORDERS, DIAPHRAGMATIC HERNIA
SEE ALSO NERVOUS SYSTEM, SPINAL NERVES, PHRENIC NERVE
** R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)
P01HL-14580-07 0003 Program project in respiratory mechanics - Chest wall mechanics and respiratory control (human, dogs)
R01HL-17715-04 Respiratory muscle afferents in respiratory control (cats)
R01HL-18007-05 Neural mechanisms controling motor act of breathing (cats, human)
P01HL-21584-02 0004 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on respiratory mechanics (dogs)
** R13HL-22525-01 International symposium on the diaphragm (Virginia)
** R01HL-22844-01 Phrenic nerve pacing--Noninvasive diaphragm analysis (human, dogs)
** R01HL-23985-01 Role of the diaphragm in regional lung mechanics (dogs)

BODY CAVITIES, MEDIASTINUM
P01HL-21584-02 0004 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on respiratory mechanics (dogs)

BODY CAVITIES, MESENTERY
R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
R01HL-13437-09 Physical and mechanical parameters in the microcirculation (animals)
** P01HL-17421-05 0003 Regulation and exchange in the microcirculation - Transcapillary fluid exchange in rat intestinal muscle, mucosa, and mesentery
P01HL-17421-05 0004 Regulation and exchange in the microcirculation - Localization of flow regulation in the microcirculation (cats, human)
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
R01HL-18831-03 Microscopy of spontaneously hypertensive arterial lesion (rats)
** P01HL-20581-01 0004 Vascular neuroeffector mechanisms in health and disease - Neuroeffector characteristics of mesenteric and pulmonary blood vessels (rabbits)
R01HL-21351-02 Renal and vascular control by sympathetic ganglia (animals)
** R01HL-22561-01 Hormonal control of mesenteric circulation (cats)

BODY CAVITIES, OMENTUM
R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)

BODY CAVITIES, PERITONEUM
R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)

BODY CAVITIES, PLEURAL CAVITY
SEE ALSO BODY REGIONS, THORAX
R01HL 14495-05 Solid and structural mechanics of lungs (mammals)

BODY CAVITY DISORDERS, DIAPHRAGMATIC HERNIA
R01HL 15526-05 Respiratory mechanics in children
R01HL 19839-09 Factors in youth predisposing to chronic diseases (former college students)

BODY CAVITY DISORDERS, PERITONEAL
R01HL 13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)

BODY CAVITY DISORDERS, PERITONEAL EFFUSIONS, ASCITES
R01HL-18020-04 Splanchnic hemodynamics in man
R01HL-22051-01 Role of angiotensin II in vasopressin release (human)

BODY CAVITY DISORDERS, PLEURAL
P01HL-06312-17 0050 Surgical cardiology - Prevention of pericardial and pleural adhesions by silicone oil (dogs)
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
P01HL-21584-02 0002 Respiratory mechanics in normal and abnormal states - Lung mechanics--Regional deformation and ventilation (dogs)

BODY CAVITY DISORDERS, PLEURAL, PNEUMOTHORAX (GENERAL)
SEE ALSO RESPIRATORY DISORDERS, ATELECTASIS
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
** R23HL-21050-02 Mechanisms of re-expansion pulmonary edema (rabbits)

BODY CAVITY DISORDERS, PLEURAL EFFUSIONS
** P01HL-06285-18 0145 Cardiovascular-respiratory physiology and biochemistry - Pulmonary, pleural and systemic microcirculation (animals)
** R01HL-19678-01 Quantification of intrathoracic fluid by impedance (human, dogs)
P01HL-19717-02 0043 Response of the lung to injury - Asbestosis as a model of usual interstitial pneumonia (human)
R23HL-21050-02 Mechanisms of re-expansion pulmonary edema (rabbits)

BODY COMPOSITION
R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
R01HL-21578-01 Effect of exercise upon the hypertensive adolescent

BODY FLUIDS (AND RELATED SUBSTANCES)
SEE ALSO BIOLOGICAL TRANSPORT, FLUID EXCHANGE AND TRANSPORT
SEE ALSO BLOOD AND RE SYSTEM, BLOOD*
SEE ALSO BLOOD AND RE SYSTEM, LYMPH
SEE ALSO CELL FLUIDS
SEE ALSO EAR, LABYRINTHINE FLUIDS
SEE ALSO EYE, AQUEOUS HUMOR
SEE ALSO NERVOUS SYSTEM CENTRAL, CEREBROSPINAL FLUID
SEE ALSO URINE*
P01HL-06835-17 0059 Cardiovascular disease - Metyrapone-induced hypertension in dog
** P01HL-08214-15 0047 Chemical and biological properties of lipids - High resolution liquid chromatography for the analysis of biological substances
R01HL-10942-09 Study of genetic hypertension in rats
** P01HL-11678-11 0020 Cardiovascular dynamics and their control - Circulatory and pulmonary fluid dynamics during pulmonary edema
P01HL-11678-11 0064 Cardiovascular dynamics and their control - Renal medulla--Control of renal hemodynamics, electrolyte excretion (dogs)
** P01HL-11678-11 0065 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (dogs)
P01HL-11678-11 0068 Cardiovascular dynamics and their control - Basic hemodynamics (rats, dogs)
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)
R01HL-16855-03 Cavitation in biological systems (microorganisms, animals)
R01HL-19065-02 Molecular oxygen in biological fluids
R01HL-19678-01 Quantification of intrathoracic fluid by impedance (human, dogs)
R01HL-19825-02 Renin-volume interactions in coarctation hypertension (dogs)
R01HL-21498-02 Pathophysiology of edema (rats, cats)
R01HL-22026-01 Endogenous prostaglandins in asthma
R01HL-22233-01 Characterization of bio-materials by elastic property
R01HL-22506-01 Hemodynamics of the clinical hypertensions

BODY FLUIDS, EXTRACELLULAR SPACE (COMPARTMENT)
SEE ALSO CONNECTIVE TISSUE, GROUND SUBSTANCE
R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
** P01HL 11678-11 0035 Cardiovascular dynamics and their control - Lymph flow rate and protein concentration (dogs)
** P01HL 11678-11 0039 Cardiovascular dynamics and their control - Capillary and interstitial fluid dynamics of the intestine (cats)
P01HL-11678-11 0040 Cardiovascular dynamics and their control - Control of plasma potassium concentration (dogs)
** P01HL-11678-11 0057 Cardiovascular dynamics and their control - Return of urine to circulation using cystico-caval shunt (dogs)
P01HL-11678-11 0070 Cardiovascular dynamics and their control - Interaction of the four Starling forces (dogs)
R01HL-13841-16 Respiration during altitude acclimatization (goats, dogs, rats, rabbits)
P50HL 14159-08 0008 Specialized center of research in hypertension - Renal function and sodium metabolism in hypertension (rats, human, rabbits)
P50HL-14214-07 0025 Newborn lung center for hyaline membrane disease - Pulmonary vascular permeability and lung water--Hyaline membrane disease (sheep)
P01HL-14388-07 0154 Regulation of the circulation in pathological states - Energetics of smooth muscle contraction (rats)
P01HL-15835-06 0023 Study of muscles related to heart disease - Cellular basis of the Frank-Starling curve (frogs, rats)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
P50HL-18318-03 0004 Pathogenesis and complications of hypertension - Steroid and renin profiles in hypertension (rats, human)
P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
P50HL-18318-03 0010 Pathogenesis and complications of hypertension - Hemodynamics in mineralocorticoid and low renin hypertension (human)
P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
R01HL-20749-01 Developing heart--Biophysical aspects (sheep)
R01HL-20878-02 Cellular aspects of lung injury (rats, rabbits)
** R01HL-21282-01 Dynamics of interstitial space in whole animals (rats)
** R01HL-22261-01 Compliance of fluid spaces in advancing hypertension (rats)
R01HL-22281-01 Microprobe analysis and metabolite levels of ischemic myocardium (dogs)
R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)
P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
R01HL-22911-01 Mechanism of clearance of lung edema fluid (dogs)
R01HL-23201-01 Mechanisms of hypertension (human, rats)

BODY FLUIDS, EXUDATES AND TRANSUDATES
SEE ALSO BODY FLUID BALANCE, EDEMA
P01HL-10342-13 0006 The integrated function of respiration and circulation - Lung inflation effects on pulmonary vasculature and interstitial space (dogs)
** R01HL-13596-07 Clearance of plasma proteins from alveoli
P01HL-15832-06 0010 Chemical-structural predispositions to lung injury - Kinin generating systems in pulmonary disease (human, animals)

BODY FLUIDS, MILK
SEE ALSO REPRODUCTIVE SYSTEM FEMALE, MAMMARY GLANDS
R01HL-18712-03 Iron deficiency-hyperlipidemia in development (rats)

BODY FLUIDS, MUCUS
SEE ALSO PROTEOGLYCANS, MUCIN
SEE ALSO RESPIRATORY SYSTEM, BRONCHIAL MUCUS
R01HL-14271-07 Physico-chemical properties of tracheal mucus (dogs, frogs)
R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)
** P50HL-19157-02 0003 Studies in cystic fibrosis and bronchiolitis - Nasal mucosal function in patients with cystic fibrosis
** P50HL-19157-02 0004 Studies in cystic fibrosis and bronchiolitis - Macromolecular regulators of mucus secretion--Invertebrate model

BODY FLUIDS, SPUTUM
SEE ALSO ORAL-PHARYNGEAL, SALIVA
SEE ALSO RESPIRATORY SYSTEM, BRONCHIAL MUCUS

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
P50HL-19160-02 0002 Mucus abnormality in cystic fibrosis - Ultrastructure, cytochemistry of pulmonary secretion (human, rat)

BODY FLUIDS, TISSUE SPACES

P01HL-06285-18 0212 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gap junction (bovine)

BODY FLUIDS, VISCOSITY-VISCOELASTICITY

SEE ALSO BLOOD VISCOSITY-VISCOELASTICITY
** R01HL-14271-07 Physico-chemical properties of tracheal mucus (dogs, frogs)
** R01HL-15155-05 Rheology of pulmonary secretions (dogs)
R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)
R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)

BODY FLUID BALANCE, ACID-BASE

SEE ALSO ACIDS-BASES, HYDROGEN-ION CONCENTRATION
SEE ALSO RESPIRATORY GAS LEVELS, BOHR EFFECT
SEE ALSO URINE ACIDITY
** R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
** R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
** P01HL-06285-18 0197 Cardiovascular-respiratory physiology and biochemistry - Microperfusion and micropuncture of renal tubules (hamsters, desert rats)
P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)
P01HL-08805-15 0006 Regulation of ventilation and pulmonary circulation - Adaptation of lungfish--Estivation
P01HL-08899-14 0031 Tolerance to respiratory gases in health and disease - Studies in exercise (human, dogs)
** P01HL-08899-14 0033 Tolerance to respiratory gases in health and disease - Acid-base related influences of hypoxia (human)
** P01HL-08899-14 0034 Tolerance to respiratory gases in health and disease - Hyperoxygenation and respiratory response to acid-base stimuli (human, dog)
P01HL-08899-14 0041 Tolerance to respiratory gases in health and disease - Blood gas transport and brain circulatory control (human)
** P01HL-10342-13 0023 The integrated function of respiration and circulation - Carbon dioxide transport and CSF acid base balance (hogs, pigs)
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
P50HL-14218-07 0004 Pulmonary SCOR--Newborn lung center - Metabolism of infants with respiratory distress syndrome (human)
** P50HL-14218-07 0018 Pulmonary SCOR--Newborn lung center - Whole body buffering in acute hypercapnia (dogs)
P01HL-14414-07 0010 Environmental influences on cardiorespiratory and cellular functions - Pressure effects on cardiac electrical phenomena (animals)
** P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
R01HL-14720-08 Factors governing the renal excretion of acid (humans, rats)
** P60HL-15157-07 0012 Comprehensive center for sickle cell disease - Sickling and intracellular pH (human)
R01HL-15469-06 Human ventilatory adaptation (also, dogs, rats)
** R01HL-15810-06 Electrolyte physiology and respiratory acid-base (dogs)
R01HL-16292-05 0002 Surgery and non-obstructive coronary insufficiency - Effects of hypothermia during cardiopulmonary bypass (dogs)
R01HL-16463-05 Localization of airways obstruction and responses
R01HL-16916-04 0002 The role of albumins in lung water accumulation - Lung water balance--Forces, models and albumin concentrations (rabbits, dogs)
R01HL-17352-03 Physiological regulation during chronic hyperthermia (sheep)
R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
P01HL-17731-04 0010 Physiological basis of pulmonary disease - Gas exchange kinetics (dogs)
R01HL-17963-04 Human erythrocyte carbonic anhydrase
R01HL-18082-03 Erythrocyte phosphates and vertebrate gas transport (amphibians, reptiles)
** R01HL-18351-03 Brain metabolism, acid-base balance, and respiration
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
R01HL-18489-03 Hemodynamic interactions of vasoactive chemicals (rats)
R01HL-18798-04 0001 Nervous and ionic factors in sudden cardiac death - Potassium loss during myocardial ischemia (rabbits)
P50HL-19190-02 0006 Pulmonary SCOR--Pathophysiology, management of IRDS - Asphyxia--Respiratory control (dogs)
P50HL-19190-02 0007 Pulmonary SCOR--Pathophysiology, management of IRDS - Asphyxia--Cerebral metabolism (dog, rat)
P01HL-19737-02 0005 Cellular and molecular aspects of respiratory physiology - Interaction of respiratory exchanges and blood gas parameters (human, animals)
** R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
R01HL-20262-02 Cardiac glycosides and the mechanism of the sodium-potassium pump
R01HL-20568-03 Respiration during prolonged hypercapnia (rats)
R01HL-20635-03 Factors in lung development (rat and chick embryo)
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
** R01HL-22650-01 Regulatory mechanisms of erythropoietin production (human, rats, mice)

BODY FLUID BALANCE, ACID-BASE, ACIDOSIS

SEE ALSO CARBOHYDRATES METABOLISM DISORDERS, DIABETIC ACIDOSIS
SEE ALSO KETONE BODIES
SEE ALSO METABOLIC DISORDERS (INBORN), RENAL TUBULAR ACIDOSIS
SEE ALSO RESPIRATORY DISORDERS, ACIDOSIS, RESPIRATORY
R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
P01HL-06285-18 0125 Cardiovascular-respiratory physiology and biochemistry - Myocardial function in the fetal and neonatal lamb
P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
** R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
P01HL-08899-14 0035 Tolerance to respiratory gases in health and disease - Simulation of the increased metabolism of exercise (dogs)
P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
R01HL-14646-05 Pathophysiology of myocardial ischemia (dogs, rats)
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
** P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
R01HL-16022-05 Determinants of the ventilatory response to hypoxia (goats, cats)
** P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
P50HL-17669-04 0007 Ischemic heart disease center (SCOR) - Relationship between myocardial depression and compliance (dogs, cats)
P50HL-17669-04 0011 Ischemic heart disease center (SCOR) - Lysosomal function and lysosomal enzymes in normal and ischemic heart (rabbit)
P50HL-17669-04 0022 Ischemic heart disease center (SCOR) - Pathological studies of human and experimental ischemic heart disease
P50HL-17682-04 0024 Study of ischemic heart disease - Phosphorylation of cardiac contractile proteins during ischemia (rat, guinea pig)
R01HL-18647-03 Ischemic myocardial injury in cultured heart cells (rats)
R01HL-19410-03 Dynamic interrelations underlying exercise hyperpnea (human)
** R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
R01HL-21187-01 Potassium, norepinephrine, and coronary arterial tone (dogs)
R23HL-21262-02 Sodium-calcium interactions in mammalian myocardium (rabbits, cats)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
R01HL-22650-01 Regulatory mechanisms of erythropoietin production (human, rats, mice)
R01HL-23128-01 Cardiac contractility--Ischemia and hypoxia (rabbits, rats)
R01HL-23166-01 Pathology of mitochondria in ischemic myocardium (rats, cattle)

BODY FLUID BALANCE, ACID-BASE, ALKALOSIS

P01HL-08899-14 0030 Tolerance to respiratory gases in health and disease - Dynamic characteristics of respiratory control components (human, cats)
P50HL-14218-07 0018 Pulmonary SCOR--Newborn lung center - Whole body buffering in acute hypercapnia (dogs)
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
P01HL-14985-07 0002 Adaptation to hypoxia - Oxygen transport in man at high altitude
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
** R01HL-15810-06 Electrolyte physiology and respiratory acid-base (dogs)
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
R01HL-16022-05 Determinants of the ventilatory response to hypoxia (goats, cats)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
R01HL-18328-03 Hemoglobin function and tissue oxygenation (human, dogs)
R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
R01HL-20196-02 Regulation of coronary arterial smooth muscle
R01HL-22390-01 Effect of chloride on renin (rats, dogs)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)

BODY FLUID BALANCE, ACID-BASE, ANTIACIDOSIS DRUGS

P50HL-19185-02 0007 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sodium bicarbonate and albumin in resuscitation of preterm infants (human)

BODY FLUID BALANCE, BODY WATER

SEE ALSO BIOLOGICAL TRANSPORT, FLUID EXCHANGE AND TRANSPORT
SEE ALSO CELL FLUIDS, CELL WATER
SEE ALSO NUTRIENT INTAKE ACTIVITY, DRINKING BEHAVIOR (WATER)
SEE ALSO NUTRIENT INTAKE ACTIVITY, THIRST
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
** P01HL-06312-17 0047 Surgical cardiology - Myocardial extravascular water (dogs)
** P01HL-11678-11 0027 Cardiovascular dynamics and their control - Vasopressin and thirst in control of body fluid volumes and osmolality (dogs)
P01HL-11678-11 0035 Cardiovascular dynamics and their control - Lymph flow rate and protein concentration (dogs)
** P01HL-11678-11 0046 Cardiovascular dynamics and their control - Regulation of aldosterone secretion and related factors (dogs)
P01HL-11678-11 0058 Cardiovascular dynamics and their control - Overall control of the circulation--Computer analysis
R01HL-12690-09 Systemic and local vascular adjustment in shock (monkeys, cats)
P50HL-14159-08 0008 Specialized center of research in hypertension - Renal function and sodium metabolism in hypertension (rats, human, rabbits)
P50HL-14214-07 0025 Newborn lung center for hyaline membrane disease - Pulmonary vascular permeability and lung water--Hyaline membrane disease (sheep)
P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in RDS (sheep, cat)
P50HL-14218-07 0018 Pulmonary SCOR--Newborn lung center - Whole body buffering in acute hypercapnia (dogs)
P01HL-14388-07 0192 Regulation of the circulation in pathological states - Renal tubular secretion of magnesium (rats)
P01HL-14414-07 0004 Environmental influences on cardiorespiratory and cellular functions - Role of diffusion in gas exchange (chicken egg)
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-16916-04 0002 The role of albumins in lung water accumulation Lung water balance--Forces, models and albumin concentrations (rabbits, dogs)
** R01HL-16916-04 0011 The role of albumins in lung water accumulation - Whole body distribution and exchange of albumin (rabbits, human, monkeys)
R01HL-17571-03 Study of membrane permeability by NMR relaxation (human)
P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
P01HL-18575-03 0005 Mechanisms of vascular changes in hypertension - Renin synthesis in normotensive and hypertensive pigs (also rats, dogs)
P50HL-19155-02 0001 Pathophysiology of pulmonary edema - Pulmonary edema study unit (human, dog)
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)
** R01HL-21800-01 Angiotensin effects on water intake and excretion
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)
R01HL-22859-01 Effect of carbon monoxide on the developing heart (rats)

BODY FLUID BALANCE, BODY WATER, DEHYDRATION

SEE ALSO BODY FLUID BALANCE, BODY WATER LOSS
P01HL-11678-11 0040 Cardiovascular dynamics and their control - Control of plasma potassium concentration (dogs)
P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
R01HL-19209-03 Role of AOH in experimental renal hypertension (dogs, rats)
R01HL-22051-01 Role of angiotensin II in vasopressin release (human)

BODY FLUID BALANCE, BODY WATER EXCESS

SEE ALSO BODY FLUID BALANCE, EDEMA
R01HL-20110-02 Microwave methods of lung water measurement (dogs, phantom models)

BODY FLUID BALANCE, BODY WATER LOSS

SEE ALSO BODY FLUID BALANCE, BODY WATER, DEHYDRATION
SEE ALSO SKIN SECRETIONS, SWEAT
SEE ALSO URINE*
R01HL-19352-03 Respiratory heat and water loss in neonates
R01HL-21126-02 Exercise-induced bronchospasm in children

BODY FLUID BALANCE, EDEMA

SEE ALSO BODY FLUIDS, EXUDATES AND TRANSUDATES
SEE ALSO BRAIN DISORDERS, BRAIN EDEMA
SEE ALSO CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC)
SEE ALSO CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), ANGIOTENSIN-RENIN-ALDOSTERONE-ASSOCIATED
SEE ALSO EYE DISORDERS, PAPILLEDEMA
SEE ALSO METABOLIC DISORDERS INBORN, ANGIONEUROTIC EDEMA (HEREDITARY)
SEE ALSO RESPIRATORY DISORDERS, PULMONARY EDEMA
R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
P01HL-06285-18 0143 Cardiovascular-respiratory physiology and biochemistry - Myocardial ischemia (human, dogs, lambs)
** P01HL-06664-17 0010 Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
** P01HL-11310-12 0053 Mechanisms of cardiovascular disease - Ventricular pressure-volume after cardiopulmonary bypass (dogs)
P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
P01HL-11678-11 0035 Cardiovascular dynamics and their control - Lymph flow rate and protein concentration (dogs)
P01HL-11678-11 0068 Cardiovascular dynamics and their control - Basic hemodynamics (rats, dogs)
** R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
** R01HL-13323-08 Infrarenal pressure and renal function (human, dogs)
** P01HL-14388-07 0232 Regulation of the circulation in pathological states - Idiopathic cyclic edema
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
** R01HL-17458-04 Renal control of sodium excretion (rats)
P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)
P50HL-17667-04 0022 Study of ischemic heart disease Preventing myocardial injury in surgery using cardiopulmonary bypass (human, rat)
P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
P50HL-17669-04 0022 Ischemic heart disease center (SCOR) - Pathological studies of human and experimental ischemic heart disease
R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
P01HL-18646-03 0008 Studies basic to heart transplantation Immunophysiology and early detection of rejection (dogs)
P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
** R01HL-18862-02 Thirst and its contribution to edema (dogs)
R01HL-19678-01 Quantification of intrathoracic fluid by impedance (human, dogs)
** R01HL-20080-02 Surgically induced myocardial edema (dogs)
R01HL-20143-02 Hypothermic circulatory arrest--Cerebral vascular change (dogs)
R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
R01HL-20648-01 Physical factors and coronary flow (dogs)
** R23HL-21066-02 Angiotensin and prostaglandin control of aldosterone (rats)
** R01HL-21498-02 Pathophysiology of edema (rats, cats)
R01HL-21572-01 Natural history of the postphlebitic syndrome
R01HL-22051-01 Role of angiotensin II in vasopressin release (human)
** P01HL-22602-01 0002 Pathophysiology of the endothelium - Molecular charge and endothelial permeability (rats, mice)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

BODY FLUID BALANCE, IONIC

SEE ALSO ADRENAL GLANDS DISORDERS, HYPERALDOSTERONISM
SEE ALSO BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS
SEE ALSO BIOLOGICAL TRANSPORT, ION EXCHANGE AND TRANSPORT
SEE ALSO BLOOD TREATMENT, HEMODIALYSIS
SEE ALSO BODY FLUID BALANCE, ACID-BASE
SEE ALSO CALCIUM (MINERAL) BALANCE (METABOLISM)
SEE ALSO CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), ANGIOTENSIN-RENIN-ALDOSTERONE-ASSOCIATED
SEE ALSO KIDNEY FUNCTION
SEE ALSO NUTRIENT INTAKE ACTIVITY, SALT INTAKE
R01HL-02228-24 Respiration, circulation, and heat regulation in exercise (bird, mammals)
R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
** R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
** R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
** R01HL-03303-21 Factors regulating electrolyte excretion by the kidney (human, dogs)
P01HL-06285-18 0145 Cardiovascular-respiratory physiology and biochemistry - Pulmonary, pleural and systemic microcirculation (animals)
** P01HL-06285-18 0197 Cardiovascular-respiratory physiology and biochemistry - Microperfusion and micropuncture of renal tubules (hamsters, desert rats)
P01HL-06285-18 0200 Cardiovascular-respiratory physiology and biochemistry - Medullary counter-current system (animals)
** P01HL-06312-17 0051 Surgical cardiology - Diuretic therapy on myocardial electrolyte composition and water content (human)
P01HL-06664-17 0037 Cardiopulmonary function in remediable vascular disease - Salt and water balance of cells and tissues (rabbits)
P01HL-06835-17 0048 Cardiovascular disease - Aldosterone producing adenoma prediction of curability (human)
** P01HL-08682-15 0026 Regulation of the cardiovascular system - Hypertension--High renin vs low renin (dog)
** P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation of renal function (dogs)
** R01HL-09906-13 0019 Membrane transport processes in red blood cells - Hemoglobin change and membrane potentials in red blood cells at varying volumes
R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
** R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
M P01HL-11678-11 Cardiovascular dynamics and their control
P01HL-11678-11 0027 Cardiovascular dynamics and their control Vasopressin and thirst in control of body fluid volumes and osmolality (dogs)
P01HL-11678-11 0031 Cardiovascular dynamics and their control Hypertension caused by stimulation of renal sympathetic nerves (dogs)
** P01HL-11678-11 0040 Cardiovascular dynamics and their control Control of plasma potassium concentration (dogs)
** P01HL-11678-11 0060 Cardiovascular dynamics and their control Salt and water balance in one kidney Goldblatt hypertension (rat)
** P01HL-12157-11 0058 Functions and mechanisms of cell membrane ion transport Ionic and osmotic regulation in toadfish--A euryhaline eglomarular teleost
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
R01HL-13237-09 Erythrocytes during early development (human, animals)
** R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
** R01HL-14306-07 Quantification of arterial pressure control (dogs)
P01HL-14388-07 0192 Regulation of the circulation in pathological states - Renal tubular secretion of magnesium (rats)
P01HL-14388-07 0223 Regulation of the circulation in pathological states Kallikrein-kinin system in hypertension (rats)
P01HL-14388-07 0224 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (human)
R01HL-14720-08 Factors governing the renal excretion of acid (humans, rats)
R01HL-15469-06 Human ventilatory adaptation (also, dogs, rats)
R01HL-15810-06 Electrolyte physiology and respiratory acid-base (dogs)
R01HL-16657-06 Innervation of coronary arteries and heart (rats)
P01HL-16910-05 0001 Regulation of the peripheral circulation - Quantitative studies of microcirculatory control (bats)
** R01HL-17407-05 Peripheral circulation and fluid balance (fish, mammals, human)
R01HL-17847-04 Cardiovascular and renal functions of marmots
R01HL-17944-03 Studies in lung preservation (dogs)
R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
** P50HL-18323-04 0011 SCOR hypertension center - Endocrine profiling on a selected normal population (human)
P50HL-18323-04 0037 SCOR hypertension center - Adrenocortical factors in childhood hypertension
P50HL-18323-04 0045 SCOR hypertension center - Laboratory programs--Prorenin (human)
R01HL-18426-04 Regulation of renal hemodynamics (dogs)
** P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
M R01HL-18798-04 Nervous and ionic factors in sudden cardiac death
** R01HL-18798-04 0001 Nervous and ionic factors in sudden cardiac death - Potassium loss during myocardial ischemia (rabbits)
** R01HL-18798-04 0002 Nervous and ionic factors in sudden cardiac death - Electron microprobe, ultrastructure analysis of ischemic myocardium (dog, rabbit)
R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
R01HL-18862-02 Thirst and its contribution to edema (dogs)
R01HL-19320-03 Angiotensin neuropharmacology--Relationship to sodium
R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)
R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)
R23HL-21066-02 Angiotensin and prostaglandin control of aldosterone (rats)
R01HL-21092-02 Factors other than renin in renal hypertension (rats)
** R01HL-21094-01 Arterial baroreceptors and renal function (dogs)
** R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
R01HL-21274-01 Prorenin--Physiological and biochemical analysis (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
R01HL-21800-01 Angiotensin effects on water intake and excretion
R01HL-22069-02 Experimental renal arterial hypertension (dogs)
R23HL-22245-02 Functional characteristics of atrial receptors (rats)
R01HL-22411-01 Neuroendocrine involvement in hypertension (rats)
R01HL-22482-01 Circulatory hemodynamics and sodium excretion (dogs)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
R01HL-23166-01 Pathology of mitochondria in ischemic myocardium (rats, cattle)
** R01HL-23600-01 Ions, water, and hypertension (human, dogs, rats)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)

BODY FLUID BALANCE, IONIC, HYPERKALEMIA
P01HL-10342-13 0024 The integrated function of respiration and circulation - Cytochrome P450 and physiological response to hypoxia (rats)
R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
** R01HL-21786-01 Long-term effects of myocardial protection (dogs, rats)
R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)

BODY FLUID BALANCE, IONIC, HYPOKALEMIA
SEE ALSO CAROIOVASCULAR OISOROERS, HYPERTENSION (SYSTEMIC), ANGIOTENSIN-RENIN-ALOOSTERONE-ASSOCIATEO
SEE ALSO METABOLIC OISOROERS INBORN, BARTTER'S SYNOROME
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
** R01HL-02986-21 Zonal renal change with potassium deficiency (rats, human)
R01HL-03303-21 Factors regulating electrolyte excretion by the kidney (human, dogs)
P01HL-06835-17 0059 Cardiovascular disease - Metyrapone-induced hypertension in dog
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
** R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
** R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
R01HL-16918-05 Role of steroids in hypertension (human)
R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
R01HL-19933-02 Membrane and red cell dysfunction in hemolytic anemia (human)
** R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
R01HL-22390-01 Effect of chloride on renin (rats, dogs)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

BODY FLUID BALANCE, IONIC, HYPONATREMIA
R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
P01HL-06835-17 0047 Cardiovascular disease - Spironolactone in primary aldosteroidism (human)
P01HL-06835-17 0049 Cardiovascular disease - Selective hypoaldosteronism (human)
P01HL-06835-17 0050 Cardiovascular disease - 18-Hydroxylase block in the 17 alpha-hydroxylase deficiency syndrome (human)
R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
P01HL-11678-11 0001 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (rats, dogs)

BODY FLUID BALANCE, IONIC, SALT GLAND
R01HL-16318-21 Biochemistry and pharmacology of Na-K transport

BODY FLUID BALANCE, OSMOTIC PRESSURE
SEE ALSO BLOOO OSMOTIC PRESSURE
SEE ALSO CELL FLUIOS, OSMOTIC PRESSURE
SEE ALSO SENSE ORGANS, OSMORECEPTORS
** P01HL-06285-18 0199 Cardiovascular-respiratory physiology and biochemistry - Renal tubular reabsorption of sodium chloride (hamsters, rabbits)
R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
** P01HL-11678-11 0027 Cardiovascular dynamics and their control - Vasopressin and thirst in control of body fluid volumes and osmolality (dogs)
P01HL-11678-11 0035 Cardiovascular dynamics and their control - Lymph flow rate and protein concentration (dogs)
P01HL-11678-11 0036 Cardiovascular dynamics and their control - Pulmonary capillary dynamics and edema (dogs)
P01HL-11678-11 0039 Cardiovascular dynamics and their control - Capillary and interstitial fluid dynamics of the intestine (cats)
** P01HL-11678-11 0057 Cardiovascular dynamics and their control - Return of urine to circulation using cystico-caval shunt (dogs)
P01HL-11678-11 0070 Cardiovascular dynamics and their control - Interaction of the four Starling forces (dogs)
P01HL-12157-11 0058 Functions and mechanisms of cell membrane ion transport - Ionic and osmotic regulation in toadfish--A euryhaline aglomerular teleost
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
M R01HL-12879-09 Pulmonary transport and metabolism in vivo
** R01HL-12879-09 0002 Pulmonary transport and metabolism in vivo - Osmotic compartmental model of barrior exchange
P01HL-14388-07 0192 Regulation of the circulation in pathological states - Renal tubular secretion of magnesium (rats)
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)
R01HL-18426-04 Regulation of renal hemodynamics (dogs)
R01HL-20080-02 Surgically induced myocardial edema (dogs)
R01HL-21376-02 Blood-gas barrier solute and water transport (rabbits)
R23HL-22933-01 Transvascular fluid and protein exchange in the lung (sheep)
R01HL-23015-01 Mechanisms of hypo-oncotic pulmonary edema (human, dogs)

BODY FLUID BALANCE, OSMOTIC PRESSURE, HYPEROSMOLARITY
P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
P50HL-17669-04 0022 Ischemic heart disease center (SCOR) - Pathological studies of human and experimental ischemic heart disease
R01HL-17944-03 Studies in lung preservation (dogs)
R01HL-18590-03 Cerebral blood flow after cardiac arrest (dogs, monkeys)
R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
R23HL-21663-01 Regulation of collagen biosynthesis (chick, embryo)

BODY FLUID BALANCE THERAPY
SEE ALSO BLOOO TREATMENT, HEMOOIALYSIS
SEE ALSO NUTRITION, OIET THERAPEUTIC, SALT RESTRICTEO
R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)

BODY MOVEMENT DISORDERS
SEE NEUROMOTOR OISOROERS

BODY MOVEMENT SENSE
SEE SENSORY-PERCEPTUAL PROCESSES, PROPRIOCEPTION

BODY PHYSICAL CHARACTERISTICS (GENERAL)
SEE ALSO SKELETAL OISOROERS OIAGNOSIS (INCL EXAMS)*
** P50HL-14136-07 0004 Pulmonary SCOR--Airways obstructive diseases - Morphometric studies of developing emphysema (human)
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
** R01HL-18639-03 Human anatomy for cardiac prostheses (human)
R01HL-19859-03 Epidemiological studies, precursors of hypertension (human)
R01HL-19864-03 0001 Blood pressure of children and young adults - Follow up of students from Oormont, Pennsylvania
R01HL-19869-03 Antecedents of adolescent hypertension (human)
R01HL-19870-03 Hypertensive progeny--Physical and humoral precursor search
R01HL-19956-03 High blood pressure in the young (human)
R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
R01HL-20124-02 Coronary risk factors (human)
R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)
N01HV-53010-03 NAS-NRC twin registry

BODY POSITION SENSE
SEE SENSORY-PERCEPTUAL PROCESSES, PROPRIOCEPTION

BODY REGIONS (GENERAL)
SEE ALSO ORAL-PHARYNGEAL (REGION)
SEE ALSO SKELETAL SYSTEM, LIMB
P01HL-13480-09 0017 Cardiac electrophysiology - Body surface potential mapping (human, dogs)

BODY REGIONS, ABDOMEN
P01HL-14414-07 0007 Environmental influences on cardiorespiratory and cellular functions - Neural control of respiration (human, cats)
P01HL-21584-02 0004 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on respiratory mechanics (dogs)

BODY REGIONS, THORAX
SEE ALSO BOOY CAVITIES, PLEURAL CAVITY
SEE ALSO INJURIES, CHEST
SEE ALSO RESPIRATORY FUNCTION, RESPIRATION, THORACIC PRESSURE
** P01HL-14580-07 0003 Program project in respiratory mechanics - Chest wall mechanics and respiratory control (human, dogs)
R01HL-16292-05 0020 Surgery and non-obstructive coronary insufficiency - Limitation of transthoracic ECG in detecting subendocardial ischemia (dogs)
** R01HL-18639-03 Human anatomy for cardiac prostheses (human)
P50HL-19170-02 0006 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanism of overdistension (human, animal)
R01HL-19678-01 Quantification of intrathoracic fluid by impedance (human, dogs)
R01HL-20110-02 Microwave methods of lung water measurement (dogs, phantom models)
R23HL-21405-01 Respiratory muscles in regulation of infant breathing (human)
P01HL-21584-02 0004 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on respiratory mechanics (dogs)

BODY TEMPERATURE
SEE TEMPERATURE (BOOY)

BODY TEMPERATURE REGULATION
SEE TEMPERATURE (BOOY) REGULATION

BODY VOLUME
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)

BODY WATER BALANCE
SEE BOOY FLUIO BALANCE, BOOY WATER

BODY WATER EXCESS
SEE BOOY FLUIO BALANCE, BOOY WATER EXCESS

BODY WATER LOSS
SEE BOOY FLUIO BALANCE, BOOY WATER LOSS

BODY WEIGHT
SEE ALSO AGE (ANIMAL), INFANTS, BIRTH WEIGHT
SEE ALSO GROWTH ANO OEVELOPMENT
R01HL-01979-22 Arteriosclerosis in zoo animals on controlled diets (animals)
R01HL-03299-21 Oietary effects on cholesterol metabolism (rats, rabbits)
P01HL-06835-17 0017 Cardiovascular disease - Studies on obese hypertensive rats
P01HL-06835-17 0018 Cardiovascular disease - Fatty acid concentration (rats)
P01HL-06835-17 0019 Cardiovascular disease - Fatty acid distribution (rats)
P01HL-06835-17 0020 Cardiovascular disease - Lipid metabolism (rats)
P01HL-06835-17 0024 Cardiovascular disease - Studies on the obese spontaneously hypertensive rat
P01HL-06835-17 0046 Cardiovascular disease - Renin activity during salt depletion in essential hypertension (human)
R01HL-11901-12 0019 Effects of metabolic surgery on the hyperlipidemias - Cholesterol, bileacids, lipoproteins in obese humans
R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
R01HL-18040-04 Waveform dependency in defibrillation (calves)
R01HL-18235-03 Cardiovascular fitness and other risk factors (human)
R01HL-19858-03 UMMC--Blood pressure precursors and consequences (human)
R01HL-19864-03 0001 Blood pressure of children and young adults - Follow up of students from Oormont, Pennsylvania
R01HL-20629-02 Catheter ventricular defibrillation studies (dogs)
R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)

BODY WEIGHT, OBESITY
SEE ALSO METABOLIC OISOROERS INBORN, OBESITY HEREOITARY HYPERGLYCEMIC
SEE ALSO NUTRIENT INTAKE ACTIVITY, APPETITE OEPRESSANTS
SEE ALSO NUTRITION, OIET THERAPEUTIC, REOUCING OIET
R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
** P01HL-06835-17 0017 Cardiovascular disease - Studies on obese hypertensive rats
P01HL-06835-17 0018 Cardiovascular disease - Fatty acid concentration (rats)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P01HL 06835 17 0019 Cardiovascular disease - Fatty acid distribution (rats)
P01HL 06835 17 0020 Cardiovascular disease Lipid metabolism (rats)
** P01HL 06835 17 0024 Cardiovascular disease Studies on the obese spontaneously hypertensive rat
** R01HL 09914 13 The myocardium in diabetes mellitus (dogs, monkeys)
R01HL 11901 12 0001 Effects of metabolic surgery on the hypertipidemias Partial ileal bypass (human)
R01HL 11901 12 0014 Effects of metabolic surgery on the hypertipidemias Effect of bypass on gastrin levels (dogs, human)
** R01HL 11901 12 0019 Effects of metabolic surgery on the hypertipidemias Cholesterol, bileacids, lipoproteins in obese humans
** R01HL 11901 12 0020 Effects of metabolic surgery on the hypertipidemias - Jejuno-ileal bypass Endogenous animal model of obesity (rats)
R01HL 12085 10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL 13626 06 Lipoprotein lipase and lipoprotein removal (human, rats, bacteria)
P50HL 14164 07 0041 A/S SCOR Comparative and experimental atherosclerosis Nonhuman primate pediatric atherosclerosis risk factor
P50HL 14230 07 0088 A/S SCOR Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children-- The Muscatine study
P50HL 14236 05 0009 Prevention of premature arteriosclerosis - Clinical studies on cholesterol metabolism (human)
P01HL 14985 07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
P01HL 14985 07 0009 Adaptation to hypoxia Influence of chemosensitivity on control of breathing during sleep (human, dogs)
P50HL 15103 07 0001 A/S SCOR--Early natural history of arteriosclerosis Clinical research--Bogalusa heart study (children)
R01HL 16774 04 Genetic epidemiology of hyperlipemia (Honolulu)
P50HL 18318 03 0002 Pathogenesis and complications of hypertension - Core experimental animal facility (rats, rabbits)
P50HL 19362 02 0002 A/S SCOR--Atherosclerosis in nonhuman primates - Infant caloric intake, adipose tissue development and atherosclerosis (baboon)
R01HL 19870 03 Hypertensive progeny--Physical and humoral precursor search
R01HL 19877 02 Prevention of high blood pressure in children
R01HL 20159 03 Genetic epidemiology of precursors of hypertension (human)
R01HL 20439 02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
R01HL 21010 02 Glycemia, other fraits and CV death in 40,000 persons
R01HL 21416 02 Atherosclerosis in new modles of diabetes mellitus
R23HL 22345 02 0001 Behavioral cardiovascular compliance strategies - Long term modification of dietary patterns (human)
R01HL 22378 01 Psyco-somatic predictors of CHD in adolescence (human)
** R01HL 23201 01 Mechanisms of hypertension (human, rats)
N01HV 12159 09 Lipid research clinic
N01HV 62955 04 Data collection in clinical pathology and morbid anatomy (men)

BOHR EFFECT
SEE RESPIRATORY GAS LEVELS, BOHR EFFECT

BOMBAY BLOOD GROUP
SEE BLOOD GROUPS, BOMBAY

BOMBESIN
SEE ENDOCRINOLOGY, HORMONES, PEPTIDE-POLYPEPTIDE HORMONES

BOND CLEAVAGE
SEE CHEMICAL BONDS, BOND CLEAVAGE

BOND FREQUENCIES
SEE CHEMICAL BONDS, VIBRATIONS

BONDS
SEE CHEMICAL BONDS

BONE
SEE SKELETAL SYSTEM, BONE

BONE CIRCULATION
SEE SKELETAL SYSTEM CIRCULATION

BONE DENSITY
SEE SKELETAL SYSTEM, BONE DENSITY

BONE MARROW
SEE BLOOD AND RE SYSTEM, BONE MARROW

BONE MARROW DISORDERS
SEE BLOOD AND RE DISORDERS, BONE MARROW

BONE MARROW GIANT CELLS
SEE BLOOD AND RE SYSTEM, MEGAKARYOCYTES

BONE MARROW LYMPHOCYTES
SEE BLOOD CELLS, B LYMPHOCYTES

BONE MARROW TRANSPLANTATION
SEE BLOOD AND RE SYSTEM, BONE MARROW TRANSPLANTATION

BONE NECROSIS
SEE SKELETAL DISORDERS, BONE NECROSIS

BONE NECROSIS ISCHEMIC
SEE SKELETAL DISORDERS, BONE NECROSIS ISCHEMIC

BONE PROSTHESIS
SEE SKELETAL TISSUE PROSTHESIS, BONE

BONE SCANNING
SEE SKELETAL VISUALIZATION, BONE SCANNING*

BORANES
SEE METALS, BORON COMPOUNDS, BORANES

BOROHYDRIDES
SEE METALS, BORON COMPOUNDS, BORANES

BOVIDS
SEE MAMMALS, ARTIODACTYLA, CATTLE*

BOVINE SERUM ALBUMIN
SEE ALBUMINS, SERUM ALBUMIN BOVINE

BRADYCARDIA
SEE HEART DISORDERS, ARRHYTHMIA, BRADYCARDIA

BRADYKININ
SEE PEPTIDES, VASOACTIVE PEPTIDES, KALLIDIN-9

BRADYKININ-ASSOCIATED HYPERTENSION
SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), KININS-BRADYKININ-KALLIKREIN-ASSOCIATED

BRAIN
SEE ALSO CEREBROVASCULAR SYSTEM
SEE ALSO CEREBROVASCULAR SYSTEM, CEREBRAL CIRCULATION
SEE ALSO NERVOUS SYSTEM CENTRAL
SEE ALSO PITUITARY GLAND
SEE ALSO SENSE ORGANS
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
** P01HL-14388-07 0207 Regulation of the circulation in pathological states - Brain and renin-angiotension interaction in spontaneous hypertension (rats)
R01HL-18007-05 Neural mechanisms controling motor act of breathing (cats, human)
R01HL-21471-02 Structure-function studies on actin and myosin (human, protozoa, rabbits, cattle)
** R01HL-21969-01 Prevention of myocardial hypoxia during by-pass (rats, mice, squirrels)
R01HL-22088-02 Metabolic basis for diabetic microangiopathy (cattle)

BRAIN, AUDITORY CORTEX
** P01HL-08899-14 0052 Tolerance to respiratory gases in health and disease - Oxygen effects on auditory and vestibular function (human, guinea pigs)

BRAIN, BASAL GANGLIA, CAUDATE NUCLEUS
P01HL-14388-07 0151 Regulation of the circulation in pathological states - Catecholamine release in potassium ion-free contractures in the caudal artery
P01HL-14388-07 0152 Regulation of the circulation in pathological states - Ion flux alterations in caudal artery in SHR
** P01HL-18974-03 0009 Experimental neurogenic hypertension program - Biochemistry of brain tyrosine hydroxylase (rats)
R01HL-20194-01 Brain catecholamines in control of blood pressure (rats)

BRAIN, BRAIN STEM
P01HL-06835-17 0060 Cardiovascular disease - Ventricular performance experimental models of arterial hypertension (rats, dogs)
P01HL-07896-15 0008 Environmental biomedical research program - Otologic studies under hyperbaric conditions (human, animals)
P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
** R01HL-13888-15 Regulation of respiration
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
** P01HL-16878-05 0003 Control of ventilation in health and disease - Brain stem respiratory neurons in response mechanical/chemical loading (animal)
P01HL-16878-05 0004 Control of ventilation in health and disease - Neurotransmitters in the respiratory system (cats)
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
P01HL 18974-03 0001 Experimental neurogenic hypertension program Central neural systems regulating arterial pressure (rabbits)
P50HL 19187-02 0011 Pediatric pulmonary SCOR Hyaline membrane disease Effects of hypoxia and hypercapnia on developing nervous system (monkey, human)
R01HL 20194 01 Brain catecholamines in control of blood pressure (rats)
** R01HL-20574-03 Brain stem integration of chemoreceptor activity (cats)
** R01HL 20800-17 Neural basis of respiratory and vasomotor activity (cats)
R01HL-21257-02 Breathing in sleep Airway control and blood gases (cats)
R23HL-21914-01 Studies of vasomotor control (rats)
** R01HL-22418-01 Neural control of cardio respiratory function (cats)

BRAIN, CENTRAL SPACES
SEE ALSO NERVOUS SYSTEM CENTRAL, CEREBROSPINAL FLUID
P01HL-14388-07 0207 Regulation of the circulation in pathological states Brain and renin-angiotension interaction in spontaneous hypertension (rats)
R01HL-21799-01 Circumventricular sites of pressor action of angiotensin II (rats)

BRAIN, CENTRAL SPACES, CEREBRAL VENTRICLES
R01HL-19320-03 Angiotensin neuropharmacology Relationship to sodium

BRAIN, CENTRAL SPACES, CHOROID PLEXUS
** P01HL-08899-14 0054 Tolerance to respiratory gases in health and disease - Glucose transport across choroid plexus (dogs)
R01HL-19320-03 Angiotensin neuropharmacology Relationship to sodium

BRAIN, CEREBELLAR CORTEX, PURKINJE CELLS
P01HL-07896-15 0008 Environmental biomedical research program - Otologic studies under hyperbaric conditions (human, animals)

BRAIN, CEREBELLAR NUCLEI
P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)
** R23HL-22747-01 Cardiodynamics and hypertension under cerebellar control (dogs)

BRAIN, CEREBELLUM
R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)
P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)

BRAIN, CEREBRAL CORTEX
SEE ALSO BRAIN, AUDITORY CORTEX
SEE ALSO BRAIN ELECTRICAL ACTIVITY
P01HL-07896-15 0030 Environmental biomedical research program - Narcosis caused by inert gases at raised pressures (human, animals)
** P01HL-07896-15 0049 Environmental biomedical research program - Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
P01HL-07896-15 0052 Environmental biomedical research program - Effects of hypoxia on cerebral function
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)
R01HL-20500-02 Diabetic human brain microvascular basement membrane (human)

BRAIN, CEREBRAL CORTEX, MOTOR CORTEX
P01HL-06296-18 0007 Cardiovascular and pulmonary adaptation to stress - Cardiovascular control during isometric exercise (cats)

BRAIN, CEREBRUM
SEE ALSO BRAIN, LIMBIC SYSTEM
SEE ALSO BRAIN, LIMBIC SYSTEM, SEPTAL AREA
SEE ALSO BRAIN LESIONS SURGI[illegible]
P01HL-14388-07 0179 Regulation of the [illegible] pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
** P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
** R01HL-19053-03 Vascular anatomy of the telencephalon (human)
R01HL-21799-01 Circumventricular sites of pressor action of angiotensin II (rats)

(contd)

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BRAIN, CEREBRUM, FRONTAL LOBE
R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)

BRAIN, CEREBRUM, HIPPOCAMPAL FORMATION
R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)
R01HL-17800-04 Pulmonary reflexes--Central pathways (cats, dogs, rabbits)

BRAIN, CEREBRUM, OCCIPITAL LOBE
R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)

BRAIN, CEREBRUM, ORBITAL GYRI
R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)

BRAIN, CEREBRUM, PARIETAL LOBE
R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)

BRAIN, DRINKING REGULATORY CENTERS
P01HL-14388-07 0156 Regulation of the circulation in pathclogical states - Blood pressure with drinking to intracranial angiotensin II injections (rats)

BRAIN, HYPOTHALAMUS
SEE ALSO PITUITARY-DIENCEPHALON (HORMONES)
R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
P01HL-08682-15 0006 Regulation of the cardiovascular system - Cardiovascular studies of mammalian hibernators (sciuromorpha)
P01HL-08682-15 0017 Regulation of the cardiovascular system - Neurally induced cardiac dysrhythmias (dog)
P01HL-08682-15 0022 Regulation of the cardiovascular system - Blood pressure responses and preganglionic sympathetic outflow (cat)
P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
R01HL-13454-08 Behavioral stress and cardiomyopathy (monkeys, cats)
P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
** R01HL-14560-07 Hypertension produced by sympathetic dysfunction (human, rats)
** R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)
** R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
R01HL-18085-03 Neural factors in atherogenesis (squirrel monkeys)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
R01HL-19144-03 Contraceptive steroids and experimental hypertension (rats)
R01HL-19209-03 Role of AOH in experimental renal hypertension (dogs, rats)
R01HL-20194-01 Brain catecholamines in control of blood pressure (rats)
** R01HL-22411-01 Neuroendocrine involvement in hypertension (rats)

BRAIN, LIMBIC SYSTEM
SEE ALSO BRAIN, CEREBRUM, HIPPOCAMPAL FORMATION
P01HL-18974-03 0012 Experimental neurogenic hypertension program - Immunohistochemistry of central monoamine neurons (rats)

BRAIN, LIMBIC SYSTEM, SEPTAL AREA
** P01HL-18974-03 0011 Experimental neurogenic hypertension program - Biochemistry and regulation of brain tryptophane hydroxylase (rats)

BRAIN, MEDULLA OBLONGATA
SEE ALSO BRAIN, RESPIRATORY CENTER
P01HL-08805-15 0046 Regulation of ventilation and pulmonary circulation - Sites and modes of interaction of peripheral and central chemoreceptors
R01HL-13841-16 Respiration during altitude acclimatization (goats, dogs, rats, rabbits)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
R01HL-15392-06 Autonomic and circulatory actions of anesthetics (dog, cat, rabbit, monkey)
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
R01HL-17689-06 Neurophysiologic studies of respiratory control (cats)
P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)

BRAIN, MEDULLA OBLONGATA, AREA POSTREMA
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)

BRAIN, MEDULLA OBLONGATA, SOLITARY TRACT NUCLEUS
P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
P01HL-18974-03 0006 Experimental neurogenic hypertension program - Model of sustained arterial hypertension (cats)
** P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)

BRAIN, MESENCEPHALON
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
R01HL-17903-03 Regional circulatory responses to hypoxia (rats, cats, rabbits)

BRAIN, MESENCEPHALON, COLLICULUS INFERIOR
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)

BRAIN, MESENCEPHALON, RAPHE NUCLEUS, DORSAL
** P01HL-18974-03 0011 Experimental neurogenic hypertension program - Biochemistry and regulation of brain tryptophane hydroxylase (rats)
P01HL-18974-03 0012 Experimental neurogenic hypertension program - Immunohistochemistry of central monoamine neurons (rats)

BRAIN, PONS
** P01HL-08682-15 0037 Regulation of the cardiovascular system - Central nervous regulation of cardiopulmonary mechanisms (cats)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-16878-05 0003 Control of ventilation in health and disease - Brain stem respiratory neurons in response mechanical/chemical loading (animal)
R01HL-17689-06 Neurophysiologic studies of respiratory control (cats)

BRAIN, PONS, TRIGEMINAL NUCLEUS (SPINAL)
** P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)

BRAIN, PROSENCEPHALON (GENERAL)
** R01HL-22418-01 Neural control of cardio-respiratory function (cats)

BRAIN, REGULATORY CENTERS (GENERAL)
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)

BRAIN, RESPIRATORY CENTER
SEE ALSO RESPIRATORY SYSTEM REFLEXES
P01HL-11678-11 0009 Cardiovascular dynamics and their control - Control of respiration (cat, human)
** R01HL-13888-15 Regulation of respiration
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
R01HL-15659-05 Oynamic isolation studies of control of respiration (human)
** R01HL-16022-05 Determinants of the ventilatory response to hypoxia (goats, cats)
** R01HL-16430-05 Neural control of respiration (cats)
P01HL-16878-05 0003 Control of ventilation in health and disease - Brain stem respiratory neurons in response mechanical/chemical loading (animal)
** P01HL-16878-05 0004 Control of ventilation in health and disease - Neurotransmitters in the respiratory system (cats)
R01HL-17715-04 Respiratory muscle afferents in respiratory control (cats)
** R01HL-17800-04 Pulmonary reflexes--Central pathways (cats, dogs, rabbits)
** P50HL-19190-02 0006 Pulmonary SCOR--Pathophysiology, management of IROS - Asphyxia--Respiratory control (dogs)
R01HL-20574-03 Brain stem integration of chemoreceptor activity (cats)
** R01HL-20800-17 Neural basis of respiratory and vasomotor activity (cats)
R23HL-21405-01 Respiratory muscles in regulation of infant breathing (human)

BRAIN, RETICULAR FORMATION
P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)

BRAIN, SUBCORTICAL STRUCTURES
P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)

BRAIN, THALAMUS
** R01HL-22732-01 Central organization of cardiac afferent nerves (cats, monkeys)

BRAIN, VISUAL PATHWAYS
** P01HL-07896-15 0051 Environmental biomedical research program - Relationships of retinal circulation to disease (rabbits)
** P01HL-08899-14 0047 Tolerance to respiratory gases in health and disease - Oxygen effects on visual function (human)

BRAIN CELLS
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)

BRAIN CIRCULATION DYNAMICS
SEE CEREBROVASCULAR SYSTEM, BRAIN CIRCULATION

BRAIN CONCUSSION
SEE BRAIN INJURY

BRAIN CONTROL
SEE PSYCHOLOGY, BRAIN CONTROL

BRAIN DEATH
SEE OEATH, CEREBRAL

BRAIN DISORDERS
SEE ALSO CEREBROVASCULAR OISOROERS
SEE ALSO CONGENITAL ABNORMALITIES, BRAIN (GENERAL)
SEE ALSO NERVOUS DISOROERS, MYELINOPATHIES (GENERAL)
SEE ALSO NERVOUS OISOROERS CENTRAL (GENERAL)
SEE ALSO NEUROMOTOR DISOROERS, PARKINSON'S DISEASE
SEE ALSO PSYCHOLOGY ABNORMAL, MENTAL DISOROERS (GENERAL)
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)

BRAIN DISORDERS, BRAIN EDEMA
P01HL-06285-18 0147 Cardiovascular-respiratory physiology and biochemistry - Metabolic regulation of cerebral microcirculation (cats)
R01HL-16643-02 Fluorocarbon emulsions as artificial blood (animals)
R13HL-20765-01 Eleventh Princeton Conference on Cerebrovascular Disease (new Jersey)

BRAIN DISORDERS, CEREBELLAR DISORDERS
R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)

BRAIN DISORDERS, CEREBRAL ATROPHY DIFFUSE, SENILE DEMENTIA
** P01HL-07896-15 0055 Environmental biomedical research program - Cerebral blood flow by Xenon-133 inhalation (human)
N01HV-52971-06 Reexamination of Framingham heart study cohort

BRAIN DISORDERS, EPILEPSY
SEE ALSO NEUROMOTOR OISOROERS, CONVULSIONS
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)

BRAIN DISORDERS CONGENITAL
SEE CONGENITAL ABNORMALITIES, BRAIN (GENERAL)

BRAIN EDEMA
SEE BRAIN DISOROERS, BRAIN EOEMA

BRAIN ELECTRICAL ACTIVITY
SEE ALSO BRAIN OISOROERS, EPILEPSY
P01HL-08899-14 0006 Tolerance to respiratory gases in health and disease - Effects of extreme pressures of inert gases in macaque monkey
** P01HL-08899-14 0013 Tolerance to respiratory gases in health and disease - Oxygen and carbon dioxide effects upon human brain metabolism
** P01HL-08899-14 0022 Tolerance to respiratory gases in health and disease - Effect of inert gas and hydrostatic pressures on physiological functions (monkey)
** P50HL-14214-07 0032 Newborn lung center for hyaline membrane disease - Evoked electroencephalographic potential in infants with HMO (human)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
R01HL-16430-05 Neural control of respiration (cats)
R01HL-17715-04 Respiratory muscle afferents in respiratory control (cats)
** P50HL-19187-02 0011 Pediatric pulmonary SCOR--Hyaline membrane disease - Effects of hypoxia and hypercapnia on developing nervous system (monkey, human)

BRAIN INJURY
SEE ALSO INJURIES, HEAO ANO NECK
** R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

BRAIN INTERHEMISPHERIC ACTIVITY, CEREBRAL DOMINANCE
P50HL-14214-07 0013 Newborn lung center for hyaline membrane disease Developmental outcome of children who had HMD as infants

BRAIN ISCHEMIA AND HYPOXIA
SEE CEREBROVASCULAR DISORDERS, BRAIN ISCHEMIA AND HYPOXIA

BRAIN LESIONS SURGICAL
** R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)

BRAIN LESIONS SURGICAL, CEREBELLECTOMY
R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)

BRAIN LESIONS SURGICAL, DECEREBRATION
P01HL-06296-18 0007 Cardiovascular and pulmonary adaptation to stress - Cardiovascular control during isometric exercise (cats)

BRAIN MAPPING
R01HL-21257-02 Breathing in sleep -Airway control and blood gases (cats)

BRAIN METABOLISM
R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
** P01HL-08899-14 0055 Tolerance to respiratory gases in health and disease - Oxygen effects on organ functions--Extension of tolerance
R01HL-14020-06 Characterization of myosin from blood platelets (rabbit)
P50HL-14218-07 0018 Pulmonary SCOR--Newborn lung center - Whole body buffering in acute hypercapnia (dogs)
R01HL-15469-06 Human ventilatory adaptation (also, dogs, rats)
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
R01HL-16828-04 Gradient and transport of oxygen in tissue and organs (mammals)
R01HL-18567-03 A routine diagnostic test for minimal heart damage (human, rat)
** P01HL-18974-03 0010 Experimental neurogenic hypertension program - Biochemistry and regulation of PNMT in brain (rats)
R01HL-18994-03 Substance P--Occurrence, pharmacology and physiology (mammals non-human, human)
P50HL-19190-02 0006 Pulmonary SCOR--Pathophysiology, management of IRDS - Asphyxia--Respiratory control (dogs)
** P50HL-19190-02 0007 Pulmonary SCOR--Pathophysiology, management of IRDS - Asphyxia--Cerebral metabolism (dog, rat)
R01HL-20194-01 Brain catecholamines in control of blood pressure (rats)
R01HL-20317-02 Procoagulant lipoproteins--Biochemistry and bioactivity (goats, rabbits)

BRAIN NEOPLASMS
SEE NEOPLASMS OF BRAIN

BRAIN OSCILLOGRAPHY
SEE BRAIN ELECTRICAL ACTIVITY

BRAIN SCANNING
SEE BRAIN VISUALIZATION, BRAIN SCANNING*

BRAIN STEM
SEE BRAIN, BRAIN STEM

BRAIN STIMULATOR (PACEMAKER)
SEE BRAIN STIMULATORS ELECTRONIC

BRAIN STIMULATORS ELECTRONIC
R01HL-11153-12 Quantitation of flow and solute flux in microvessels (cats, rats)
P01HL-12738-10 0042 Physiologic pharmacology and its clinical applications - Centrogenic cardiac arrhythmias (cats)
R01HL-13454-08 Behavioral stress and cardiomyopathy (monkeys, cats)
R01HL-14560-07 Hypertension produced by sympathetic dysfunction (human, rats)
R01HL-15562-05 Regulation of skeletal muscle blood flow (dogs)
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
R01HL-18085-03 Neural factors in atherogenesis (squirrel monkeys)

BRAIN TUMOR
SEE NEOPLASMS OF BRAIN

BRAIN VISUALIZATION, BRAIN SCANNING*
P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)
** P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)

BRAIN VISUALIZATION, ULTRASONIC ECHOENCEPHALOGRAPHY*
R01HL 16260-04 Development of clinical cine ultrasound cardiography

BRAIN WAVE DETERMINATION OF DEATH
SEE DEATH, CEREBRAL

BRAN, DIETARY
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY RESIDUES-FIBERS

BRANCHED CHAIN AMINO ACIDS
SEE AMINO ACIDS, BRANCHED CHAIN AMINO ACIDS

BRAZIL
SEE GEOGRAPHICAL SITES, S. AMERICA, BRAZIL

BREAST NEOPLASMS
SEE NEOPLASMS OF REPRODUCTIVE SYSTEM, BREAST NEOPLASMS

BRETYLIUM
SEE PHENYLALKYLAMINES, BENZYLAMINES, BRETYLIUM TOSYLATE

BROMINE RADIOISOTOPES
SEE RADIOISOTOPES, BROMINE

BROMOCHLOROTRIFLUOROETHANE
SEE HALOALKANES, HALOTHANE

5-BROMODEOXYURIDINE
SEE HALOPYRIMIDINE NUCLEOSIDES, HALOURACIL NUCLEOSIDES, 5-BROMODEOXYURIDINE

BROMSULPHTHALEIN
SEE BENZOFURANONES, PHTHALIDES, BROMSULPHTHALEIN

BRONCHI
SEE RESPIRATORY SYSTEM, BRONCHI

BRONCHIAL ASTHMA
SEE HYPERSENSITIVITY, RESPIRATORY HYPERSENSITIVITY, ASTHMA

BRONCHIAL CIRCULATION
SEE RESPIRATORY CIRCULATION, BRONCHIAL CIRCULATION

BRONCHIAL DISORDERS (GENERAL)
SEE RESPIRATORY DISORDERS, BRONCHIAL DISORDERS (GENERAL)

BRONCHIAL MUCUS
SEE RESPIRATORY SYSTEM, BRONCHIAL MUCUS

BRONCHIAL NEOPLASMS (GENERAL)
SEE NEOPLASMS OF RESPIRATORY SYSTEM, BRONCHIAL NEOPLASMS

BRONCHIECTASIS
SEE RESPIRATORY DISORDERS, BRONCHIECTASIS

BRONCHIOLE
SEE RESPIRATORY SYSTEM, BRONCHIOLE

BRONCHITIS ACUTE
SEE RESPIRATORY DISORDERS, BRONCHITIS ACUTE

BRONCHITIS CHRONIC AND EMPHYSEMA
SEE RESPIRATORY DISORDERS, BRONCHITIS CHRONIC AND EMPHYSEMA

BRONCHOCONSTRICTORS
SEE RESPIRATORY DRUGS, BRONCHOCONSTRICTORS

BRONCHODILATORS
SEE RESPIRATORY DRUGS, BRONCHODILATORS

BRONCHOGRAPHY
SEE RESPIRATORY VISUALIZATION, BRONCHOGRAPHY*

BRONCHOMOTION
SEE RESPIRATORY FUNCTION, BRONCHOMOTION

BRONCHOPULMONARY LAVAGE
SEE RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, PULMONARY LAVAGE

BRONCHOSCOPY
SEE RESPIRATORY VISUALIZATION, BRONCHOSCOPY*

BRONCHOSPASM
SEE RESPIRATORY DISORDERS, BRONCHOSPASM

BROWNING REACTION
SEE CHEMICAL REACTIONS, BROWNING REACTION

BRUSH BORDER MEMBRANES
SEE MEMBRANE, BRUSH BORDER MEMBRANES

BUFADIENOLIDES
SEE CARDIAC GLYCOSIDES AGLYCONES, BUFADIENOLIDES

BUFFERS
SEE ACIDS-BASES, BUFFERS

BUNDLE BRANCH BLOCK
SEE HEART DISORDERS, ARRHYTHMIA, HEART BLOCK, BUNDLE BRANCH

BUNDLE OF HIS
SEE HEART, CONDUCTION SYSTEM, BUNDLE OF HIS

BURN THERAPY
SEE THERAPY, BURN THERAPY

BURNS
SEE INJURIES, BURNS

BURNS, ELECTRICAL
SEE INJURIES, BURNS, ELECTRICAL

BURSA DEPENDENT IMMUNE SYSTEM
SEE IMMUNITY, HUMORAL IMMUNITY

BUTANOL, BUTYL ALCOHOL
SEE ALCOHOLS, BUTANOL

BUTYRIC ACID
SEE FATTY ACIDS, BUTYRIC ACID

BUTYRYLCHOLINESTERASE
SEE CHOLINE ESTERASES

BYPASS ARTERIOVENOUS ABNORMAL
SEE CARDIOVASCULAR DISORDERS, ARTERIOVENOUS SHUNTS ABNORMAL

BYPASS ARTERIOVENOUS NORMAL
SEE CARDIOVASCULAR SYSTEM, ARTERIOVENOUS ANASTOMOSIS NORMAL

BYPASS CARDIOVASCULAR ABNORMAL
SEE CONGENITAL ABNORMALITIES, CARDIOVASCULAR SHUNTS ABNORMAL

BYPASS CARDIOVASCULAR SURGICAL
SEE CARDIOVASCULAR SURGERY, CARDIOVASCULAR SHUNTS

BYPASS COLLATERAL CIRCULATION NORMAL
SEE CARDIOVASCULAR SYSTEM, BLOOD SUPPLY, COLLATERAL CIRCULATION

BYPASS CORONARY
SEE HEART REVASCULARIZATION, CORONARY BYPASS

BYPASS DUCTUS ARTERIOSUS EMBRYONIC
SEE CARDIOVASCULAR SYSTEM, DUCTUS ARTERIOSUS EMBRYONIC

BYPASS HEART EXTRACARDIAC ABNORMAL
SEE CONGENITAL ABNORMALITIES, CARDIOVASCULAR SHUNTS ABNORMAL

BYPASS HEART INTRACARDIAC ABNORMAL
SEE CONGENITAL ABNORMALITIES, HEART SEPTAL DEFECTS

BYPASS HEART-LUNG
SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART-LUNG BYPASS

BYPASS HEART SURGICAL
SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART BYPASS SURGICAL

BYSSINOSIS
SEE RESPIRATORY DISORDERS, BYSSINOSIS

C'
SEE IMMUNOLOGY, COMPLEMENT

CACHEXIA, PITUITARY
SEE PITUITARY GLAND DISORDERS, HYPOPITUITARISM

CADAVER (TISSUE)
SEE DEATH, CADAVER (TISSUE)

CADMIUM (COMPOUNDS)
SEE METALS, HEAVY METALS, CADMIUM

CAFFEINE
SEE PURINES, XANTHINES, CAFFEINE

CALCIFICATION INHIBITORS (CALCIUM NEGATIVE BALANCE DRUGS)
P50HL-14230-07 0094 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of atherosclerosis and regression (monkeys)
P60HL-15999-05 0021 Miami comprehensive sickle cell center - Diphosphonates--Erythrocyte calcium loading, maturation (human, chick embryo)

CALCIFICATION PATHOLOGIC
SEE CALCIUM (MINERAL) IMBALANCES, CALCIFICATION PATHOLOGIC

CALCIFICATION PHYSIOLOGIC
SEE CALCIUM (MINERAL) BALANCE, CALCIFICATION PHYSIOLOGIC

CALCINOSIS
SEE CALCIUM (MINERAL) IMBALANCES, CALCIFICATION PATHOLOGIC

CALCITONIN
SEE THYROID HORMONES, (THYRO)CALCITONIN

CALCIUM
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
R01HL-02212-23 Coagulation of blood (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
R01HL-05883-18 0002 Reflex control of resistance and capacitance vessels - Adenosine, adenine nucleotides and vascular smooth muscle (dog)
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
P01HL-06285-18 0195 Cardiovascular-respiratory physiology and biochemistry - Thyroid thermogenesis and sodium transport (rats)
P01HL-06308-18 0039 Mechanisms and therapy of circulatory disease - ANS in regulation of electrophysiology--Role of cyclic nulceotides (animals)
P01HL-06312-17 0051 Surgical cardiology - Diuretic therapy on myocardial electrolyte composition and water content (human)
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)
P01HL-06314-17 0057 Immunologic mechanisms in cardiovascular disease - Antigens in cardiovascular disease (human)
R01HL-09283-14 Pharmacology of molluscan hearts (also rabbits)
R01HL-09544-12 Biochemistry of contractile proteins (animals)
** R01HL-09906-13 0025 Membrane transport processes in red blood cells - Mechanism of propranolol induced Ca-dependent K efflux from human RBCs
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
R01HL-10942-09 Study of genetic hypertension in rats
P01HL-11307-12 0003 Biophysical studies in pediatric cardiology - Cellular biophysics (animals)
P01HL-11351-12 0018 Cellular and molecular mechanisms of myocardial function - Quantitative localization of electrolytes in cardiac tissue
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
P01HL-12157-11 0038 Functions and mechanisms of cell membrane ion transport - Mechanisms and interactions of gases and ions with bilayer membranes (human)
R01HL-12486-10 Structure-function correlation in the atrium (rabbits)
R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-12820-09 In vitro regulation of prothrombin activation
R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
R01HL-13198-21 Blood coagulation--Physico-chemical properties (human, cattle)
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
P01HL-13262-07 0016 Arterial wall in atherosclerosis - Lipids in elastin preparations from atherosclerotic plaques (human, animals)
R01HL-13349-06 Analysis of activation process in heart muscle (guinea pigs, rabbits, human)
R01HL-14020-06 Characterization of myosin from blood platelets (rabbit)
P50HL-14147-08 0003 Specialized center of research in thrombosis - Surface thrombogenicity and phospholipid vesicle physical properties
P50HL-14147-08 0013 Specialized center of research in thrombosis - Mathematical models of blood coagulation kinetics
P50HL-14230-07 0097 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)
** P01HL-14388-07 0153 Regulation of the circulation in pathological states - Subcellular distribution of calcium (rats)
R01HL-14461-08 Cardiac metabolism in heart failure (rats)
R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)
R01HL-14614-07 Voltage control of contraction in heart (sheep)
R01HL-14820-07 Factors affecting physiology of biological membranes (human)
R01HL-14890-07 Platelet prostaglandins (human, rabbits)
R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
R01HL-14903-07 A new index of cardiac contractility (human, dogs, baboons)
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-15498-06 Effects of physical training on heart (rats)
R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)
R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
R01HL-15740-06 In vitro studies on heart cell function (rats)
** R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
P01HL-15835-06 0001 Study of muscles related to heart disease - Control of contraction-relaxation of heart and muscle (rabbits, chickens)
P01HL-15835-06 0011 Study of muscles related to heart disease - Energetics and mechanism of muscle contraction (frogs, rabbits)
P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
P01HL-15835-06 0013 Study of muscles related to heart disease - Cardiac bioenergetics (rats)
** P01HL-15835-06 0018 Study of muscles related to heart disease - Pharmacology of excitation coupling in muscle (frog, barnacles)
P01HL-15835-06 0023 Study of muscles related to heart disease - Cellular basis of the Frank-Starling curve (frogs, rats)
R01HL-15852-06 Vascular ion transport and hypertensive mechanisms
R01HL-15887-05 Enzymes of blood coagulation and fibrinolysis (human)
R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
P01HL-16117-05 0002 Ion movements and membranes in cardiovascular control - Fluorescence and excitation-contraction coupling in heart (frogs)
** P01HL-16117-05 0003 Ion movements and membranes in cardiovascular control - Fast kinetic study of calcium membrane interactions
** P01HL-16117-05 0005 Ion movements and membranes in cardiovascular control - Properties of isolated cell membranes (rabbits, cats)
P01HL-16117-05 0007 Ion movements and membranes in cardiovascular control - Physiological and molecular properties of ionophores (dogs, rabbits)
R01HL-16346-09 Enzyme assay for blood clotting (human)
R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
** R01HL-16436-04 Role of calcium and thyroxine in heart function (rats)
R01HL-16606-11 Contraction in heart and other striated muscles (frogs)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions
R01HL-16678-03 Fluorescent probe studies of heart muscle proteins (rabbit, dog)
P01HL-16683-04 0002 Function and growth of cardiac and skeletal muscle - Myosin, actin, ATP, interaction in solution
R01HL-16746-04 Design of ion-selective molecules
** P01HL-16833-04 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
R01HL-17335-05 Contractile properties of hypertensive arterioles (rats)
P01HL-17430-05 0005 Control of coagulation - The activation of prothrombin (human, cattle, dogs)
R01HL-17451-05 Digitalis effects on cardiac automaticity mechanisms
R01HL-17721-04 Effect of sex hormones on vascular connective tissue (rats)
R01HL-17729-04 Stimulus-response coupling in platelets (human)
R01HL-18032-03 Development of normal and myopathic mammalian heart (hamsters)
R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18148-04 Adrenal catecholamine secretion
R01HL-18199-03 Effects of ions on vascular reactivity
P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
P01HL-18208-04 0007 Center for the study of blood cell rheology - RBC membrane protein (human)
** R01HL-18255-04 Lipid-protein interactions and calcium transport (models)
R01HL-18280-03 Regulation of cardiac contractility and metabolism (rats)
R01HL-18516-03 Atherosclerosis and the arterial contractile proteins (pigs, rabbits)
R01HL-18554-03 Taurine metabolism in mammalian heart (rodents, cattle, swine)
R01HL-18612-03 Thin filament control of heart contraction (cattle)
R01HL-18737-03 Human erythrocyte membrane structure
P01HL-18827-02 0007 Platelet vessel wall interactions in thrombogenesis - Biochemistry and role factor V in thrombogenesis (human, cattle)
R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
R01HL-18852-03 Biochemical studies on the blood coagulation process (human, cattle)
** R01HL-18937-03 Cyclic nucleotides and calcium in platelets (human)
R01HL-19012-03 Smooth muscle of resistance vessels in hypertension (rats)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
R01HL-19138-03 Contractile activation of skinned cardiac cells (mammals)
R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R01HL-19252-02 Vascular connective tissue--Role in atherosclerosis (rabbits)
R01HL-19324-02 Mechanisms of the inhibition of sickling by DBA (human)
R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport
R01HL-19848-02 Contractile activation by rapid temperature jumps (frogs)
R01HL-19982-02 Blood coagulation--Protein-metal ion-lipid interactions
R01HL-20079-02 0001 Thromboresistant material - Active and passive thromboresistant surfaces
R01HL-20087-02 Developmental processes in pulmonary hypertension (rats)
R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
R01HL-20196-02 Regulation of coronary arterial smooth muscle
R01HL-20319-02 Assembly, structure and interactions of fibrin (human)
R01HL-20369-03 The effect of alcohol on the heart (rats)
R01HL-20464-01 Regulation of cardiac and skeletal muscle contraction (mammals)
P01HL-20552-02 0003 The development and regression of cardiac hypertrophy - Muscle mechanics of the hypertrophied left ventricle (rats)
P01HL-20592-02 0004 Cell biology of cardiac and skeletal muscle - Excitation, conduction and contraction--Modelling in Purkinje fibers
P01HL-20592-02 0013 Cell biology of cardiac and skeletal muscle - Sarcoplasmic reticulum in skinned muscle cells (frogs)
R01HL-20643-02 Analysis of heart cell contraction (rats)
R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-20782-01 Coronary flow regulation by adenosine (rats, dogs)
R01HL-20882-02 Interactions of plasma lipoproteins with erythrocytes (Rhesus, human)
R01HL-20902-02 Studies on marginal band system of erythrocytes (amphibians, reptiles, fish)
R01HL-20956-02 Early events following stimulation of human platelets
P01HL-20984-02 0004 Cellular mechanisms in cardiac hypertrophy - Myofibril accumulation in cardiac and vascular muscle cells in hypertrophy
P01HL-20993-02 0007 Population dynamics of arterial cells in atherogenesis - Interaction of lipoproteins in hypercholesteremia (human, swine)
R01HL-21103-01 Parametric mechanical studies of hypertensive arteries (dogs, rats)
R01HL-21139-02 Molecular biology of factor XIII (human)
R01HL-21145-02 Response of atria to hyperosmolality--Mechanisms (rabbits)
R23HL-21208-02 Structure-function relationships of human factor VIII
R01HL-21294-02 Voltage clamp of isolated cardiac Purkinje cells (dogs)
R01HL-21312-01 Sarcomere mechanics in disrupted ventricular muscle (guinea pigs)
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
R01HL-21371-02 Energy loss microanalysis of myocardial cations
R23HL-21488-01 Myosin-linked regulation in vertebrate smooth muscle (calf aorta)
R01HL-21493-02 Contractility in cardiac failure (hamsters)
R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)
R01HL-21820-01 Regulatory role of myosin in cardiac hypertrophy (dogs)
R01HL-21860-18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-21922-01 Transient currents induced by strophanthidin in the heart
R01HL-21975-01 Studies on normal and abnormal factor IX (human, dogs, cows)
R01HL-21988-01 Biochemistry of human platelet chemotaxis
** R01HL-22008-01 Left ventrivular calcium content and contractility (rats)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
R01HL-22088-02 Metabolic basis for diabetic microangiopathy (cattle)
** R01HL-22137-02 Structure-function pathology of isoleted heart cells (mice, rats)
** R01HL-22177-02 Mechanisms of control of pulmonary smooth muscle (dogs)
R01HL-22194-02 Allosteric function of platelet contractile proteins (human)
R01HL-22216-02 Vascular mechenisms in renal hypertension (dogs)
R01HL-22281-01 Microprobe analysis and metabolite levels of ischemic myocardium (dogs)
R01HL-22361-01 Regulation of cardiac adaptation to exercise (rats)
R01HL-22401-01 Regulation of tension end active state in the heart
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rebbits)
R01HL-22461-01 Cerdiac tropomyosin and tropomyosin-action interactions (rabbit)
R01HL-22500-01 Conversion of choline to phosphatidylcholine in lung (rabbits, pigs)
R01HL-22505-01 Molecular pathology of fibrinogen and factor XIII (human, animels)
R01HL-22560-02 Structure and motion of cilia (Tetrahymena, mussels)
** P01HL-22619-01 0005 Cellular mechanisms of heart failure - Molecular mechanism of regulation of cardiac muscle contraction (cattle)
** P01HL-22619-01 0006 Cellular mechanisms of heart failure - Phosphorylation of contractile proteins in cardiac muscle contraction (dogs, rabb
P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
R01HL-22771-01 Thrombogenic phospholipid surfaces (cattle)
** R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)
R01HL-22955-01 inetics of prothrombin activation
R23HL-22959-01 Heart development in inherited cardiomyopathy (hamsters)
R01HL-22985-01 Properties and assembly of Z-disk proteins (human, other species)
R01HL-23010-01 Control and mechanism of platelet aggregation (human)
R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)
R01HL-23392-01 Membrane binding and transport of calcium and potassium ionophores
R01HL-23593-01 Mast cell granules--Structure and secretion (rats)
R01HL-23614-02 Pharmacology of relaxation in smooth muscle (mollusks)
R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses
R01HL-23994-01 Biochemical properties of human cardiac myosin

CALCIUM (MINERAL) BALANCE (METABOLISM)

R01HL-04512-19 Ultrastructural studies of capillary permeability (rats, mice)
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
** R01HL-12186-09 Calcium transients in striated muscle and other cells (mammals, frogs)
R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
** R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
P50HL-14147-08 0014 Specialized center of research in thrombosis - Theoretical models for electrostatic effects in blood clot formation
P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
P01HL-14388-07 0167 Regulation of the circulation in pathological states - Increased reactivity of artery vascular muscle in spontaneously hypertensive rat
P01HL-14388-07 0172 Regulation of the circulation in pathological states - cAMP-dependent protein kinase from heart and vascular smooth muscle (guinea pigs)
R01HL-14820-07 Factors affecting physiology of biological membranes (human)
P60HL-15157-07 0009 Comprehensive center for sickle cell disease - Red cell membrane alterations during sickling (human)
P60HL 15169-05 0018 Support for center for sickle cell disease Studies on sickle cell disease (human, rats, dogs)
** P60HL 15999-05 0014 Miami comprehensive sickle cell center Biochemical and morphological paramaters of sickle cells (human)
** R01HL-16003-08 Sources and roles of calcium in smooth muscle excitetion (rats)
R01HL-16714-05 Endothelial cell communicetion in homeostasis (human, mammals)
P60HL 17265-04 0003 Community blood resource center support - Research-Human factor IX Role in intrinsic clotting (also baboons, dogs)
P60HL 17269-04 0007 Netional heart end blood vessel research and demonstration center Correlative studies of experimentel myocerdiel ischemia (dog)
** P60HL 17269-04 0019 Nationel heart and blood vessel research and demonstration center - Sarcoplasmic reticulum (dog, rabbit, hamster, cat)
R01HL-17597-05 Role of plasma lipoproteins in atherosclerosis (swine, human)
P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
P50HL-17669-04 0022 Ischemic heart disease center (SCOR) - Pathological studies of human and experimental ischemic heart disease
P50HL-17670-04 0022 Study of ischemic heart disease - Myocardial metabolism in hypoxia and recover (rabbit, toad, dog)
P50HL-17682-04 0012 Study of ischemic heart disease - Pathology core laboratory (human)
P50HL-17682-04 0024 Study of ischemic heart disease - Phosphorylation of cardiac contractile proteins during ischemia (rat, guinea pig)
** R01HL-18077-04 Smooth muscle cell organization and Ca20 concentration control (chickens)
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
R01HL-19000-03 Irreversible myocardial injury (rats)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
R01HL-19399-02 Atherosclerosis--Early events and regression factors (rats)
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
R01HL-20754-02 Anesthetic-induced myocardial depression (rabbits)
R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
** R23HL-21213-01 A model for calcium homeostasis in excitable tissue (marine worms)
R23HL-21413-02 Structure and function of platelet calcium-binding protein (human)
** R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
** R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)
** R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
R23HL-22984-01 Cyclic AMP dependent protein kinases in hypertension (rat)
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)
** R01HL-23153-01 Mechanisms of altered CA20 transport in ischemic heart (dog, rabbit)
R01HL-23161-01 0003 Biology of myocardial ischemia - Phosphorylase coupling to myocardial sarcoplasmic reticulum (dog)
R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)

CALCIUM (MINERAL) BALANCE, CALCIFICATION PHYSIOLOGIC

P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
** P01HL-11310-12 0101 Mechanisms of cardiovascular disease - Molecular pathogenesis of vascular disease

CALCIUM (MINERAL) BALANCE, PHOSPHORUS BALANCE (METABOLISM)

R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)

CALCIUM (MINERAL) IMBALANCES, CALCIFICATION PATHOLOGIC

** P01HL-11310-12 0101 Mechanisms of cardiovascular disease - Molecular pathogenesis of vascular disease
R01HL-15965-06 Experimental atherosclerosis and elastin metabolism (chicks)
** R01HL-20764-02 Elastin and calcification in pulmonary and vascular disease (human, mammals)

CALCIUM (MINERAL) IMBALANCES, HYPERCALCEMIA

R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
R01HL 16603-05 Human and experimental renal diseases (animals)
R01HL 22506-01 Hemodynamics of the clinical hypertensions

CALCIUM (MINERAL) IMBALANCES, PHOSPHORUS IMBALANCE

SEE ALSO METABOLIC DISORDERS INBORN, HYPOPHOSPHATASIA
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)

CALCIUM PUMP

SEE BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS, CALCIUM PUMP

CALCULI

SEE BILIARY TRACT DISORDERS, CHOLELITHS

CALF

SEE MAMMALS, ARTIODACTYLA, CATTLE*

CALLITHRIX

SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*

CALORIC CONTENT (OF FOODS)

SEE NUTRITION, DIETARY CONSTITUENTS, CALORIC CONTENT

CALORIC STIMULATION

SEE TEMPERATURE, HEAT, CALORIC STIMULATION

CALORIMETRY

SEE TEMPERATURE, HEAT, CALORIMETRY*

CAMERAS, SCINTILLATION

SEE RADIOASSAY, SCINTILLATION CAMERAS*

CANADA

SEE GEOGRAPHICAL SITES, N. AMERICA, CANADA

CANCER

SEE NEOPLASMS

CANCER CELLS

SEE NEOPLASTIC CELLS

CANCER CHEMOTHERAPY

SEE NEOPLASTIC THERAPY, CANCER CHEMOTHERAPY

CANCER COMPLICATIONS, INFECTIONS

SEE NEOPLASMS, CANCER COMPLICATIONS OF, INFECTIONS

CANCER DIAGNOSIS

SEE NEOPLASMS DIAGNOSIS

CANCER EPIDEMIOLOGY

SEE NEOPLASTIC DISEASE EPIDEMIOLOGY-STATISTICS

CANCER GENETICS

SEE NEOPLASMS GENETICS

CANCER PATIENT CARE

SEE HEALTH CARE SERVICES, CASE FINDING AND OUTREACH

CANCER PATIENTS, DISEASE COMPLICATIONS

SEE NEOPLASMS, CANCER COMPLICATIONS OF

CANCER RADIOTHERAPY

SEE NEOPLASTIC THERAPY, CANCER RADIOTHERAPY

CANCER SURGERY

SEE NEOPLASMS SURGERY

CANCER SURVIVAL RATES

SEE NEOPLASTIC DISEASE EPIDEMIOLOGY-STATISTICS

CANNABIS

SEE ALKALOIDS, CANNABIS

CANNULATION

SEE ALSO CATHETERIZATION
** P01HL-06312-17 0042 Surgical cardiology - Right ventricular assist device (sheep)

CAPILLARIES

SEE CARDIOVASCULAR SYSTEM, CAPILLARIES

CAPILLARY BEDS

SEE CARDIOVASCULAR SYSTEM, CAPILLARY BEDS

CAPRIDS

SEE MAMMALS, ARTIODACTYLA, GOATS*

CAPSID AND CAPSOMERE, VIRAL

SEE VIRUS COMPONENTS, CAPSID AND ENVELOPE

CAPSULES

SEE DOSAGE FORMS

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

CAPUCHINS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*

CARBACHOL
SEE CHOLINE, CARBACHOL

CARBAMAMIDINE
SEE GUANIDINES

CARBAMATES
SEE ALSO PHENYLAMINES, NEOSTIGMINE
P01HL-20993-02 0005 Population dynamics of arterial cells in atherogenesis - Drugs other than hypolipidemic drugs affecting atherosclerosis (swine, rabbits)

CARBAMATES, URETHAN
P01HL-13737-07 0002 Assisted circulation - U-shaped mechanical auxiliary ventricle (dogs)
N01HV-32959-10 Development of materials for heart assist devices

CARBAMIDINE
SEE GUANIDINES

CARBAMOYLPHOSPHATE:L-ASPARTATE TRANSCARBAMYLASE
SEE TRANSCARBAMYLASES, ASPARTATE TRANSCARBAMYLASE

N-CARBAMYL AMINO ACIDS
SEE AMINO ACIDS, N-CARBAMYL AMINO ACIDS

CARBAMYL PHOSPHATE
N01HB-22919-08 Hemoglobin carbamylation in the treatment of sickle cell anemia (human, dogs)
R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
** P60HL-15169-05 0018 Support for center for sickle cell disease - Studies on sickle cell disease (human, rats, dogs)
R01HL-16375-04 Investigation of hemoglobin S properties (human)
P01HL-16833-04 0009 Hemoglobin and red cell system in hemoglobinopathies - Rheological studies of sickled cells (human)
P01HL-16833-04 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)

CARBAMYLTRANSFERASES
SEE TRANSCARBAMYLASES

CARBOHYDRASES
SEE ALSO N-GLYCOSYLHYDROLASES
R01HL-15474-06 Structure and function of the antihemophilic factor (human, cattle)
** R01HL-17881-15 Biosynthesis and degradation of blood group substances (human, animals)
R01HL-20301-02 Genetics of glycosyltransferases in human blood
R23HL-21411-02 Control of extracellular lysosomal hydrolase levels (rats)

CARBOHYDRASES, N-ACETYLGLUCOSAMINIDASES
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
R01HL-20301-02 Genetics of glycosyltransferases in human blood
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)

CARBOHYDRASES, ALPHA-AMYLASE
N01HR-72921-01 Cystic fibrosis factor identification and quantification (human)

CARBOHYDRASES, BETA-GALACTOSIDASE
P50HL-14153-07 0004 Johns Hopkins Lung Center--Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)

CARBOHYDRASES, ALPHA-GLUCOSIDASE
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)

CARBOHYDRASES, BETA-GLUCURONIDASE
R01HL-13885-08 0008 Cystic fibrosis and pulmonary disease - Pseudomonas specific activation of alveolar macrophages (human, rabbits)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)

CARBOHYDRASES, HEXOSAMINIDASES
R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)

CARBOHYDRASES, HYALURONIDASE
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
P01HL-14388-07 0221 Regulation of the circulation in pathological states - Experimental myocardial infarction (dogs)
P01HL-15832-06 0005 Chemical-structural predispositions to lung injury - Pulmonary structure and stress-strain relationships (rats)
P50HL-17669-04 0012 Ischemic heart disease center (SCOR) - Circulatory assistance (human, dog)
R01HL-19370-03 Coronary capillary exchange--The effects of ischemia (dogs, sheep)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-20199-02 Drug-induced alterations in infarct size in the rat
R01HL-21282-01 Dynamics of interstitial space in whole animals (rats)
R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)
** R01HL-22227-01 A new source of hyaluronidase and anticoagulants (leeches)

CARBOHYDRASES, LYSOZYME
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)
P50HL-14153-07 0004 Johns Hopkins Lung Center--Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)
P01HL-16748-05 0006 Cellular and immunological basis of pulmonary diseases - Sarcoidosis--Studies with bronchial lavage (human)
R01HL-17895-04 Myocardial function and metabolism following ischemia (rats)
R01HL-18087-03 Development and regression of cardiac hypertrophy (rats, rabbits)
R01HL-18625-03 Organization of arterial ground substance (cattle)
R01HL-19237-03 Obstructive lung disease and alveolar macrophages (human, animals)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
P01HL-22619-01 0007 Cellular mechanisms of heart failure - Regulation of contractile protein levels in heart muscle (rats)
R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)

CARBOHYDRASES, NEURAMINIDASE
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
P01HL-16851-04 0008 Human red cell membrane in health and disease - Force balance in red cell interactions (human)
P01HL-17382-05 0003 Chemical mediators of acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
R01HL-19278-03 Ristocetin induced platelet aggregation (human)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)
R01HL-22738-01 Role of bioelectric potentials in platelet adherence (bats, rats, hamsters)

CARBOHYDRATE BALANCE
SEE ALSO CARBOHYDRATES METABOLISM DISORDERS
** P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
P01HL-08682-15 0021 Regulation of the cardiovascular system - Hypoglycemia in pathogenesis of shock (dog)
R01HL-13630-08 Control of glycogen synthesis in heart (cattle)
R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)

CARBOHYDRATE BALANCE, BLOOD SUGAR
P01HL-08682-15 0019 Regulation of the cardiovascular system - Hepatic immunophysiology and host-defense in shock (rat, dog, human)
P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
** P01HL-08682-15 0021 Regulation of the cardiovascular system - Hypoglycemia in pathogenesis of shock (dog)
P50HL-14141-05 0008 SCOR for atherosclerosis in childhood - Core laboratory
R01HL-16774-04 Genetic epidemiology of hyperlipemia (Honolulu)
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)
R01HL-20393-03 Postsynthetic modifications of hemoglobin in diabetics (human)
R01HL-20447-03 Connective tissue and diabetic vascular disease (human)
R01HL-20483-03 Sterol balance and cholesterol absorption in diabetics (human)
R01HL-20488-03 Cholesterol metabolism in diabetic man
R01HL-20508-03 Diabetes, hyperglycemia and cardiovascular disease (human)
R01HL-20522-03 Peripheral arterial disease in the diabetic (human)
R01HL-20539-03 Blood glucose, hemoglobin A1c, and diabetic vascular disease (human)

CARBOHYDRATE BALANCE, GLUCOSE TOLERANCE
** P01HL-06285-18 0151 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in diabetic and glucose intolerant children
** P50HL-14138-05 0008 Center for research on atherosclerosis - Core lipid laboratory (human)
P50HL-14138-05 0014 Center for research on atherosclerosis - Core biostatistics laboratory
P50HL-14164-07 0041 A/S SCOR--Comparative and experimental atherosclerosis - Nonhuman primate pediatric atherosclerosis risk factor
P50HL-14236-05 0006 Prevention of premature arteriosclerosis - Carbohydrate metabolism and hypertriglyceridemia (human)
R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
P50HL-19362-02 0013 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Lipid biochemistry (baboons)
R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
R01HL-20508-03 Diabetes, hyperglycemia and cardiovascular disease (human)
R01HL-20535-02 Cardiovascular disease and evolving diabetes mellitus (human)
R01HL-20645-01 Etiology of myocardial infaction (human)
** R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
R01HL-21416-02 Atherosclerosis in new modles of diabetes mellitus

CARBOHYDRATE BALANCE, HYPERGLYCEMIA
SEE ALSO CARBOHYDRATES METABOLISM DISORDERS, DIABETES
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
P01HL-06285-18 0149 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in prediabetic and diabetic subjects (human)
** P01HL-06285-18 0150 Cardiovascular-respiratory physiology and biochemistry - Basement membrane width in non-diabetic hyperglycemia
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
R01HL-20381-03 Long-term study of diabetic vascular disease (human)
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
R01HL-20460-03 Aortic histamine synthesis in diabetes (rat)
R01HL-20483-03 Sterol balance and cholesterol absorption in diabetics (human)
** R01HL-20508-03 Diabetes, hyperglycemia and cardiovascular disease (human)
** R01HL-20539-03 Blood glucose, hemoglobin A1c, and diabetic vascular disease (human)
** R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
R01HL-21416-02 Atherosclerosis in new modles of diabetes mellitus

CARBOHYDRATE BALANCE, HYPOGLYCEMIA
SEE ALSO PANCREATIC ISLETS DISORDERS, HYPERINSULINISM
P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
** P01HL-08682-15 0021 Regulation of the cardiovascular system - Hypoglycemia in pathogenesis of shock (dog)

CARBOHYDRATE BALANCE, HYPOGLYCEMIC AGENTS
SEE ALSO PANCREAS HORMONES
R01HL-18175-03 Drug taking for hypertension in a rural community

CARBOHYDRATES
SEE ALSO GLYCOLIPIDS
SEE ALSO GLYCOPROTEINS
SEE ALSO NUCLEIC ACIDS
SEE ALSO NUCLEOSIDES
SEE ALSO NUCLEOTIDES
SEE ALSO NUTRITION, DIETARY CONSTITUENTS, DIETARY CARBOHYDRATES
SEE ALSO OLIGOSACCHARIDES
SEE ALSO POLYSACCHARIDES
** R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
P01HL-08214-15 0047 Chemical and biological properties of lipids - High resolution liquid chromatography for the analysis of biological substances
R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-13237-09 Erythrocytes during early development (human, animals)
P50HL-14164-07 0040 A/S SCOR-Comparative and experimental atherosclerosis - Core angiochemistry laboratory
R01HL-15535-06 Structure and function of human plasmin
R01HL-16872-04 Antihemophilic factor (human)
R01HL-18095-04 Human dopamine beta-hydroxylase (also cattle)
R01HL-18593-03 Characterization of heart valve collagen (human, pig)
R01HL-19456-03 Immunoglobulins associated with serum hyperviscosity (human)
R01HL-20092-02 Structural and biological properties of fibrinogen (human, rabbits)
R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)

CARBOHYDRATES, AMINO SUGARS

SEE ALSO SUGAR ACIDS, SIALIC ACIDS
** R01HL-17796-04 Importance of aminosugars in digitalis activity (cats, rabbits)
R01HL-18593-03 Characterization of heart valve collagen (human, pig)

CARBOHYDRATES, GLYCOSIDES

SEE ALSO PLANTS EXTRACTS, MEDICINAL PLANTS
SEE ALSO STEROIDS GLYCOSIDES
SEE ALSO TERPENES SAPONINS
R01HL-07502-13 Phytochemistry of the genus thalictrum (dogs, plants)
R01HL-14775-08 Mechanisms of drug action in vascular smooth muscle (dog, rabbits)

CARBOHYDRATES, MONOSACCHARIDES

SEE ALSO HEXOSES
R01HL-18028-03 Absorption of nonvolatile compounds from the lung
R01HL-21763-09 Heparin and heparan sulfate–Structure and activity (beef, hog)

CARBOHYDRATES, PROTEIN BOUND CARBOHYDRATES

SEE ALSO GLYCOPROTEINS
** R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
P01HL-11310-12 0099 Mechanisms of cardiovascular disease - Carbohydrate chemistry of thy-1 and related synaptosomal proteins
P01HL-11310-12 0103 Mechanisms of cardiovascular disease - Heparin–Metabolism and function
P01HL-11310-12 0104 Mechanisms of cardiovascular disease - Structure of connective tissue proteoglycans (rabbits)
P01HL-11310-12 0105 Mechanisms of cardiovascular disease - Biosynthesis of mammalian glycoproteins (rabbits)
R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
R01HL-14865-07 Biochemical studies on the pathogenesis of emphysema (human, rats)
R01HL-15615-06 Structure-function studies of human factor VIII/vWF
** R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
R01HL-17194-03 Comparison of two inherited forms of alpha-1-antitrypsin (human)
** R01HL-17783-04 Complex carbohydrates–Structure, function, synthesis (swine)
R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
R23HL-21369-02 Tracheal mucin synthesis in experimental bronchitis (rats)
** R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
R01HL-21626-01 Proteoglycans of animal lung parenchyma (cattle, pigs, rabbits)
R01HL-21649-01 Biochemistry of lung proteoglycans (mammals)
R01HL-23233-01 Pulmonary artery intermediate filament structure (cattle)

CARBOHYDRATES, SULFOSUGARS

SEE ALSO POLYSACCHARIDES, SULFOPOLYSACCHARIDES
R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)

CARBOHYDRATES, SULFOSUGARS, THIOSUGARS

R01HL-21763-09 Heparin and heparan sulfate–Structure and activity (beef, hog)

CARBOHYDRATES BIOSYNTHESIS

SEE ALSO HEXOSES, GLUCOGENESIS
P01HL-11310-12 0103 Mechanisms of cardiovascular disease - Heparin–Metabolism and function
P01HL-11310-12 0104 Mechanisms of cardiovascular disease - Structure of connective tissue proteoglycans (rabbits)
** P01HL-11310-12 0105 Mechanisms of cardiovascular disease - Biosynthesis of mammalian glycoproteins (rabbits)
** R01HL-13630-08 Control of glycogen synthesis in heart (cattle)
** P50HL-14236-05 0006 Prevention of premature arteriosclerosis - Carbohydrate metabolism and hypertriglyceridemia (human)
R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
** R01HL-17783-04 Complex carbohydrates–Structure, function, synthesis (swine)
R01HL-17995-04 Cellular synthesis and release of mucopolysaccharides (rabbits)
R01HL-19752-03 Phospholipid synthesis by fetal lung in organ culture (rats)
** R01HL-20868-02 Regulation of glycoprotein biosynthesis in lung (swine)
R23HL-22818-01 Biosynthesis of human respiratory mucous glycoprotein (also dog)
R01HL-23161-01 0003 Biology of myocardial ischemia - Phosphorylase coupling to myocardial sarcoplasmic reticulum (dog)

CARBOHYDRATES BIOSYNTHESIS, GLYCONEOGENESIS

SEE ALSO HEXOSES, GLUCONEOGENESIS
R01HL-15622-05 Computer simulation in cardiology (rats, dogs)
R01HL-20476-03 Effects of diabetes on cardiac performance (rat)

CARBOHYDRATES METABOLISM

SEE ALSO CARBOHYDRATE BALANCE
SEE ALSO CARBOHYDRATES BIOSYNTHESIS
R01HL-01813-25 Regulation of metabolism by drugs and hormones (rats)
** P01HL-06312-17 0046 Surgical cardiology - The relationship of prostaglandins to heart disease
R01HL-06950-17 Red cell metabolism (human, vertebrates)
P01HL-08899-14 0007 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on visual function (human, animals)
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-12138-08 Nutritional regulation of enzyme activity (rats, human)
R01HL-12740-10 Hypocholesterolemic agents–Stereochemistry (rats)
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
R01HL-14526-07 Oral contraceptives and hypertension (rats)
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
** R01HL-15813-05 Cardiac anoxia–Protective effect of carbohydrate (dogs)
R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
P50HL-17646-04 0009 Study of ischemic heart disease - Regional metabolic derangements indicating ischemia (rabbit, dog, human)
P50HL-19171-02 0010 Pulmonary SCOR–Lung injury by childhood infections - Metabolic pathways of normal and injured respiratory cells
R01HL-20408-03 Hyperlipidemia in diabetics during muscular training (human)
R01HL-20520-03 Protein modification–The key to diabetic sequelae (human, animal)
R01HL-21416-02 Atherosclerosis in new modles of diabetes mellitus

CARBOHYDRATES METABOLISM, GLUCOSE METABOLISM

SEE ALSO CARBOHYDRATE BALANCE
SEE ALSO HEXOSES, GLYCOLYSIS
SEE ALSO TRICARBOXYLIC ACIDS, KREBS CYCLE
P01HL-06285-18 0135 Cardiovascular-respiratory physiology and biochemistry - Beta-adrenergic agents and fetal cardiovascular dynamics (lambs)
** R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
** P01HL-11310-12 0080 Mechanisms of cardiovascular disease - Metabolism of the hypertrophied myocardium (human)
R01HL-12740-10 Hypocholesterolemic agents–Stereochemistry (rats)
R01HL-12879-09 0008 Pulmonary transport and metabolism in vivo - Stop-flow technique for permeability measurements
R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)
R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
R01HL-14706-07 Fetal hearts in organ culture (mice)
P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
P50HL-15092-07 0006 Immune and fibrotic response to occupational environments - Immunologic studies in silicosis (human, rabbits, hamsters, guinea pigs)
R01HL-17437-03 'Perfusion lung'-Role of traumatized leukocytes (dogs, human)
P50HL-17667-04 0012 Study of ischemic heart disease - Biochemistry of normal and ischemic heart-Glycolysis (rats)
P50HL-17667-04 0040 Study of ischemic heart disease - Core biochemistry-Cardiac metabolism (human)
** R01HL-17895-04 Myocardial function and metabolism following ischemia (rats)
R01HL-18176-02 Effect of thyroid hormone on cultured cardiac cells (rat)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
P01HL-19242-02 0001 Study of vascular smooth muscle - Energy metabolism and protein turnover in vascular smooth muscle (rats)
** R01HL-20206-02 Carbohydrates-nucleotides and adrenergic interactions (rabbits, cats, rats)
R01HL-20401-03 Relationship of insulin to catechol cardiomyopathy (rabbit, pig)
R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
** R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)
R01HL-22088-02 Metabolic basis for diabetic microangiopathy (cattle)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)

CARBOHYDRATES METABOLISM DISORDERS

SEE ALSO CARBOHYDRATE BALANCE
SEE ALSO METABOLIC DISORDERS INBORN, DISACCHARIDE (OLIGOSACCHARIDE) INTOLERANCE
SEE ALSO METABOLIC DISORDERS INBORN, GLUCOSE-6-PHOSPHATE DEHYDROGENASE DEFICIENCY
SEE ALSO METABOLIC DISORDERS INBORN, GLYCOGENOSIS
SEE ALSO METABOLIC DISORDERS INBORN, OBESITY HEREDITARY HYPERGLYCEMIC
SEE ALSO PANCREATIC ISLETS DISORDERS
** R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism–Regulation, implications (human, mammals, birds)
** R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-19961-03 Management of hemosiderosis in thalassemia (children, adults)

CARBOHYDRATES METABOLISM DISORDERS, DIABETES

SEE ALSO CARBOHYDRATE BALANCE, GLUCOSE TOLERANCE
SEE ALSO CARBOHYDRATE BALANCE, HYPOGLYCEMIC AGENTS
SEE ALSO CARBOHYDRATES METABOLISM DISORDERS, DIABETIC ANGIOPATHIES
SEE ALSO METABOLIC DISORDERS INBORN, OBESITY HEREDITARY HYPERGLYCEMIC
SEE ALSO PANCREATIC ISLETS DISORDERS
R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)
R01HL-04300-20 Fine structure of diseased glomeruli (human, rats, dogs)
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
** P01HL-06285-18 0149 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in prediabetic and diabetic subjects (human)
P01HL-06285-18 0150 Cardiovascular-respiratory physiology and biochemistry - Basement membrane width in non-diabetic hyperglycemia
** P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
P01HL-08214-15 0006 Chemical and biological properties of lipids - Analysis and properties of lipids
R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
P01HL-08974-14 0028 Natural and experimental atherosclerosis - Geographic pathology of atherosclerosis and coronary heart disease (human)
** R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
** P01HL-11678-11 0046 Cardiovascular dynamics and their control - Regulation of aldosterone secretion and related factors (dogs)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (ratsi rabbits, pigeons)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
** R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)
R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
P50HL-14138-05 0015 Center for research on atherosclerosis - Arterial wall--Intermediary metabolism, enzyme activity and bioenergetics
P50HL-14236-05 0004 Prevention of premature arteriosclerosis - Plasma lipoproteins (human, rats)
P50HL-14236-05 0006 Prevention of premature arteriosclerosis - Carbohydrate metabolism and hypertriglyceridemia (human)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
R01HL-15427-06 Secretion of plasma lipoproteins (rats)
R01HL-15622-05 Computer simulation in cardiology (rats, dogs)
R01HL-15696-06 Mechanism and role of cyclic GMP in heart (animals)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
P50HL-17667-04 0012 Study of ischemic heart disease - Biochemistry of normal and ischemic heart--Glycolysis (rats)
P50HL-18318-03 0002 Pathogenesis and complications of hypertension - Core experimental animal facility (rats, rabbits)
P50HL-18318-03 0014 Pathogenesis and complications of hypertension - Arterial metabolism and atherogenesis (rat, rabbit)
P01HL-18645-03 0007 Biology of the artery wall and atherosclerosis - Lipoprotein metabolism in subhuman primates
R01HL-18687-03 Pathophysiology of genetic hypertriglycerinemias (human)
R01HL-18705-03 Regulation of plasma triglyceride metabolism (rats)
R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)
R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
R01HL-19467-03 Regulation of blood pressure (rats, dogs)
R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
** R01HL-20381-03 Long-term study of diabetic vascular disease (human)
** R01HL-20388-03 Regulation of protein turnover in diabetic heart (rat)
R01HL-20391-03 Polydisperse LDL--Structure, metabolism and function (human)
** R01HL-20393-03 Postsynthetic modifications of hemoglobin in diabetics (human)
** R01HL-20397-03 VLDL-TG metabolism in diabetes mellitis (human, rat)
** R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
** R01HL-20401-03 Relationship of insulin to catechol cardiomyopathy (rabbit, pig)
** R01HL-20408-03 Hyperlipidemia in diabetics during muscular training (human)
** R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)
** R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
** R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
R01HL-20428-03 The juvenile diabetic heart (human)
** R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
** R01HL-20439-02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
** R01HL-20446-02 Autonomic neuropathy in diabetic mice (also rats)
** R01HL-20447-03 Connective tissue and diabetic vascular disease (human)
** R01HL-20460-03 Aortic histamine synthesis in diabetes (rat)
** R01HL-20471-03 Atherosclerosis and diabetes mellitus (human)
** R01HL-20476-03 Effects of diabetes on cardiac performance (rat)
** R01HL-20483-03 Sterol balance and cholesterol absorption in diabetics (human)
** R01HL-20484-03 Effects of diabetes on cardiac function and metabolism (rats)
** R01HL-20488-03 Cholesterol metabolism in diabetic man
** R01HL-20508-03 Diabetes, hyperglycemia and cardiovascular disease (human)
** R01HL-20517-03 Diabetes, somatotropin, factor VIII and atherosclerosis (human, animal)
** R01HL-20520-03 Protein modification--The key to diabetic sequelae (human, animal)
** R01HL-20522-03 Peripheral arterial disease in the diabetic (human)
** R01HL-20535-02 Cardiovascular disease and evolving diabetes mellitus (human)
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
** R23HL-21291-02 Renin-mineralocorticoid axis in hypertensive diabetics (human)
R23HL-21320-02 Cyclic nucleotide metabolism in vascular endothelium
** R01HL-21416-02 Atherosclerosis in new modles of diabetes mellitus
** R01HL-21482-01 Cardiac function and metabolism in diabetes (rats)
** R23HL-21842-01 Control of sugar entry in normal and diabetic heart (rats)
** R01HL-21843-01 Ischemia, diabetes and the microcirculation (rats, cats, hamsters)
** R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
** R01HL-22064-02 Glycogen metabolism in anoxic diabetic myocardium (rats)
** R01HL-22088-02 Metabolic basis for diabetic microangiopathy (cattle)
** R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
** R01HL-22106-02 Diabetic cerebral vascular structure and function
** R01HL-22113-02 Micro/macrovasculature in healing of foot lesions (human)
** R01HL-22115-02 Lipid-mobilization and diabetic atherosclerosis (human)
** R01HL-22118-02 Microcirculation in patients with diabetes mellitus
** R01HL-22121-02 Dyslipoproteinemia in diabetes and vascular disease (human)
** R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)
R01HL-22474-01 Cholesterol metabolism and atherosclerosis (rats, human, rabbits)
R01HL-22506-01 Hemodynamics of the clinical hypertensions
** R01HL-22581-02 Neurocirculatory control in diabetes mellitus (human)
R01HL-22812-01 Regulation of hepatic production of HDL (rats)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)
N01HV-12156-10 Lipid research clinic
N01HV-12159-09 Lipid research clinic
N01HV-22916-16 Establishment of a lipid research clinic

CARBOHYDRATES METABOLISM DISORDERS, DIABETES, INSULIN (RESISTANCE) TOLERANCE

SEE ALSO METABOLIC DISORDERS INBORN, OBESITY HEREDITARY HYPERGLYCEMIC
** P01HL-06835-17 0024 Cardiovascular disease - Studies on the obese spontaneously hypertensive rat
** R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-22115-02 Lipid-mobilization and diabetic atherosclerosis (human)
R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)

CARBOHYDRATES METABOLISM DISORDERS, DIABETES, JUVENILE

R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
P01HL-06285-18 0151 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in diabetic and glucose intolerant children
P01HL-09011-15 0001 A research and resource program in blood - Genetic markers of human blood and gene mapping (human)
** R01HL-13632-08 Vascular changes in diabetes mellitus (human)
R01HL-20401-03 Relationship of insulin to catechol cardiomyopathy (rabbit, pig)
R01HL-20408-03 Hyperlipidemia in diabetics during muscular training (human)
R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
** R01HL-20428-03 The juvenile diabetic heart (human)
R01HL-20446-02 Autonomic neuropathy in diabetic mice (also rats)
R01HL-20447-03 Connective tissue and diabetic vascular disease (human)
** R01HL-20517-03 Diabetes, somatotropin, factor VIII and atherosclerosis (human, animal)
** R01HL-20539-03 Blood glucose, hemoglobin A1c, and diabetic vascular disease (human)
R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)

CARBOHYDRATES METABOLISM DISORDERS, DIABETES, PREDIABETIC STATE

** P01HL-06285-18 0149 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in prediabetic and diabetic subjects (human)
R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
R01HL-20535-02 Cardiovascular disease and evolving diabetes mellitus (human)

CARBOHYDRATES METABOLISM DISORDERS, DIABETES IN PREGNANCY

R01HL-19752-03 Phospholipid synthesis by fetal lung in organ culture (rats)
R01HL-20535-02 Cardiovascular disease and evolving diabetes mellitus (human)

CARBOHYDRATES METABOLISM DISORDERS, DIABETIC ACIDOSIS

SEE ALSO KETONE BODIES
R01HL-22581-02 Neurocirculatory control in diabetes mellitus (human)

CARBOHYDRATES METABOLISM DISORDERS, DIABETIC ANGIOPATHIES

SEE ALSO CARBOHYDRATES METABOLISM DISORDERS, DIABETIC NEUROPATHIES
SEE ALSO CARBOHYDRATES METABOLISM DISORDERS, DIABETIC RETINOPATHY
R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
** P01HL-03174-23 0007 Mechanisms of acute vascular reaction to injury - Healing of injured myocardium--Basal lamina scaffold (human, rats, dogs)
** P01HL-06285-18 0149 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in prediabetic and diabetic subjects (human)
P01HL-06285-18 0151 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in diabetic and glucose intolerant children
** P01HL-06285-18 0152 Cardiovascular-respiratory physiology and biochemistry - Diabetic microangiopathy by organ and tissue culture (human)
** P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
** R01HL-13632-08 Vascular changes in diabetes mellitus (human)
** R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
** R01HL-17932-04 Blood flow regulation in muscle (cats)
R01HL-18977-03 Non-invasive diagnosis of peripheral arterial disease (human, dogs)
R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
** R01HL-20381-03 Long-term study of diabetic vascular disease (human)
R01HL-20393-03 Postsynthetic modifications of hemoglobin in diabetics (human)
** R01HL-20400-03 Diabetic neuropathy and peripheral vascular diseases (human, hamsters)
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)
R01HL-20428-03 The juvenile diabetic heart (human)
** R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
R01HL-20447-03 Connective tissue and diabetic vascular disease (human)
** R01HL-20500-02 Diabetic human brain microvascular basement membrane (human)
R01HL-20508-03 Diabetes, hyperglycemia and cardiovascular disease (human)
** R01HL-20517-03 Diabetes, somatotropin, factor VIII and atherosclerosis (human, animal)
** R01HL-20520-03 Protein modification--The key to diabetic sequelae (human, animal)
** R01HL-20539-03 Blood glucose, hemoglobin A1c, and diabetic vascular disease (human)
** R01HL-21039-02 Vascular lesions of diabetes in Oklahoma Indians
R23HL-21320-02 Cyclic nucleotide metabolism in vascular endothelium
R01HL-21416-02 Atherosclerosis in new modles of diabetes mellitus
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
** R01HL-22064-02 Glycogen metabolism in anoxic diabetic myocardium (rats)
** R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
R01HL-22113-02 Micro/macrovasculature in healing of foot lesions (human)
** R01HL-22115-02 Lipid-mobilization and diabetic atherosclerosis (human)
** R01HL-22118-02 Microcirculation in patients with diabetes mellitus
R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

CARBOHYDRATES METABOLISM DISORDERS, DIABETIC NEPHROPATHIES

P01HL-06314-17 0062 Immunologic mechanisms in cardiovascular disease Immunologic renal vascular disease (human, animals)
R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)
R01HL-20381-03 Long term study of diabetic vascular disease (human)
** R01HL-22581-02 Neurocirculatory control in diabetes mellitus (human)

CARBOHYDRATES METABOLISM DISORDERS, DIABETIC NEUROPATHIES

R01HL-20206-02 Carbohydrates-nucleotides and adrenergic interactions (rabbits, cats, rats)
** R01HL-20400-03 Diabetic neuropathy and peripheral vascular diseases (human, hamsters)
** R01HL-20439-02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
** R01HL-20446-02 Autonomic neuropathy in diabetic mice (also rats)

CARBOHYDRATES METABOLISM DISORDERS, DIABETIC RETINOPATHY

** P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
R01HL-13632-08 Vascular changes in diabetes mellitus (human)
P50HL-14236-05 0009 Prevention of premature arteriosclerosis - Clinical studies on cholesterol metabolism (human)
** R01HL-20455-03 Role of systemic hypertension on diabetic retinopathy (human)
R01HL-22088-02 Metabolic basis for diabetic microangiopathy (cattle)

CARBOHYDRATES STRUCTURE

R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
P01HL-09011-15 0005 A research and resource program in blood - Characterization of hepatitis-B antigen and the cause of serum hepatitis (human)
** P01HL-11310-12 0099 Mechanisms of cardiovascular disease - Carbohydrate chemistry of thy-1 and related synaptosomal proteins
P01HL-11310-12 0103 Mechanisms of cardiovascular disease - Heparin--Metabolism and function
** P01HL-11310-12 0105 Mechanisms of cardiovascular disease - Biosynthesis of mammalian glycoproteins (rabbits)
P50HL-15389-07 0014 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of pigeon antigens
R01HL-15474-06 Structure and function of the antihemophilic factor (human, cattle)
R01HL-16166-05 Structure of alpha-1-antitrypsin in relation to emphysema (human)
R01HL-17194-03 Comparison of two inherited forms of alpha-1-antitrypsin (human)
** R01HL-17783-04 Complex carbohydrates--Structure, function, synthesis (swine)
R01HL-17995-04 Cellular synthesis and release of mucopolysaccharides (rabbits)
R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
R01HL-19011-03 Smooth muscle cell membrane glycoprotein biosynthesis (cattle)
P50HL-19190-02 0005 Pulmonary SCOR--Pathophysiology, management of IROS - Glycoproteins in mucous secretions (human, cattle)
R01HL-19820-02 The chemistry and biological effects of heparin (Rhesus, human, other mammals)
R01HL-20500-02 Diabetic human brain microvascular basement membrane (human)
R01HL-20547-02 Glycoproteins in pulmonary alveolar proteinosis (human)
R01HL-20868-02 Regulation of glycoprotein biosynthesis in lung (swine)
** R01HL-21615-01 Structural studies of lung heparinoid polysaccharides (cattle)
R01HL-21692-02 Purification of erythropoietin (human)
** R01HL-21763-09 Heparin and heparan sulfate--Structure and activity (beef, hog)
R01HL-22983-01 Studies on the catabolism of plasma lipoproteins (rats)

CARBOHYDRATES STRUCTURE, SUGAR SEQUENCE

R01HL-15125-07 Molecular pathology of genetic disorders in man
P50HL-15389-07 0015 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of thermophilic Actinomycete antigens
R01HL-17783-04 Complex carbohydrates--Structure, function, synthesis (swine)
R01HL-19084-03 Structure and function of serum lipoproteins (human)
R01HL-21480-01 Structure, source and functions of alveolar glycoproteins (human, rabbits)
R01HL-21612-02 Biochemistry of lung proteoglycans (human, rabbits)
R01HL-21615-01 Structural studies of lung heparinoid polysaccharides (cattle)
R01HL-21617-02 Biochemistry of lung proteoglycans (rabbits, cattle)
R01HL-21686-02 Purification of erythropoietin (human)

CARBOHYDRATES TRANSPORT (GENERAL)

P01HL-06285-18 0132 Cardiovascular respiratory physiology and biochemistry Umbilical placental circulatory responses (lambs)
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
P01HL-16851-04 0006 Human red cell membrane in health and disease Hexose transport and erythrocyte membrane proteins (human)
P01HL-19737-02 0001 Cellular and molecular aspects of respiratory physiology - Fatty acid metabolism in type II alveolar cells (rats)
** R23HL-21842-01 Control of sugar entry in normal and diabetic heart (rats)

CARBOHYDRATES TRANSPORT, GLUCOSE TRANSPORT

R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)
** P01HL-08899-14 0054 Tolerance to respiratory gases in health and disease - Glucose transport across choroid plexus (dogs)
R01HL-12879-09 0005 Pulmonary transport and metabolism in vivo - Glucose transport by pulmonary endothelium and epithelium (dogs)
** R01HL-13029-09 Metabolic regulation of sugar transport (pigeons, rats)
** R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
R01HL-16611-04 Digitalis-receptor of the heart (guinea pigs, rats)
** P01HL-16851-04 0006 Human red cell membrane in health and disease - Hexose transport and erythrocyte membrane proteins (human)
R01HL-19463-02 Pathophysiology of acute renal failure (rats)
R01HL-20605-02 Microvascular responses during intestinal absorption (rats)
R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
R01HL-22951-01 Studies on the affect of vitamin E on platelets (human, rats)

CARBON

SEE ALSO RADIOISOTOPES, CARBON
P01HL-06314-17 0048 Immunologic mechanisms in cardiovascular disease - Pathogenesis of glomerulonephritis (rats, mice)
N01HV-32919-12 Material development and testing heparinization processes
N01HV-42928-07 Continued development of carbon film deposits for prosthetics

CARBON 11

SEE RADIOISOTOPES, CARBON

CARBON 13 LABELED

SEE ISOTOPE LABELED, STABLE CARBON

CARBON-CARBON LIGASES

R01HL-16628-05 Regulation of lipid metabolism (rats)

CARBON-CARBON LIGASES, ACETYL-COA CARBOXYLASE

R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
** R01HL-16628-05 Regulation of lipid metabolism (rats)
R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)

CARBON-CARBON LIGASES, PROPIONYL COA CARBOXYLASE (ATP-HYDROLYZING)

R01HL-16628-05 Regulation of lipid metabolism (rats)

CARBON DIOXIDE

SEE RESPIRATORY GASES, CARBON DIOXIDE

CARBON DIOXIDE TENSION

SEE RESPIRATORY GAS LEVELS, CARBON DIOXIDE TENSION

CARBON DIOXIDE TRANSPORT

SEE RESPIRATORY GAS TRANSPORT, CARBON DIOXIDE TRANSPORT

CARBON MONOXIDE

R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
R01HL-12524-10 Reaction of hemoglobin with ligands and antibodies (human, carp)
R01HL-13157-09 Molecular oxygen carriers--Synthesis, structure, bonding
R01HL-13581-11 Reactions of oxygen with heme proteins
R01HL-14131-18 Abnormal hemoglobin syndromes (human)
R01HL-15520-06 Total blood replacement by fluorocarbons and polyols (rats)
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
R01HL-16686-04 Properties of cytochrome oxidase (cattle, bacteria)
R01HL-17517-03 Arterial wall oxygen transport in atherosclerosis (rabbits, dogs)
R01HL-18969-02 Arterial wall oxygenation (rabbits, dogs)
R01HL-19299-03 Myoglobin and oxygen supply to heart and muscle cells (rats, pigeons)
P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of cigarette smoking on atherosclerosis (baboon)
R01HL-19488-03 Picosecond laser studies of heme proteins
** P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
P01HL-19737-02 0011 Cellular and molecular aspects of respiratory physiology - Chemical and metabolic factors on peripheral chemoreceptor activity (cats)
R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)
R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)
R01HL-20996-02 Structural and reactivity of iron and cobalt complexes
** R01HL-22859-01 Effect of carbon monoxide on the developing heart (rats)

CARBON MONOXIDE POISONING

SEE TOXICOLOGY, GAS POISONING, CARBON MONOXIDE

CARBON RADIOISOTOPES (11,14)

SEE RADIOISOTOPES, CARBON

CARBON-SULFUR LYASES, GLYOXALASE I

R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)

CARBONATES

R01HL-20725-02 Mechanisms and cellular functions of ion transport

CARBONATES, BICARBONATES

SEE ALSO SODIUM BICARBONATE
R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)
P01HL-06285-18 0199 Cardiovascular-respiratory physiology and biochemistry - Renal tubular reabsorption of sodium chloride (hamsters, rabbits)
P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
P50HL-14218-07 0018 Pulmonary SCOR--Newborn lung center - Whole body buffering in acute hypercapnia (dogs)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
R01HL-16135-05 Mechanisms of cardiac autorhythmicity (dogs, bats)
R01HL-17963-04 Human erythrocyte carbonic anhydrase
R01HL-18351-03 Brain metabolism, acid-base balance, and respiration
R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
R01HL-19008-02 Carbon dioxide diffusion in lung and muscle tissues (dogs)
R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport

CARBONIC ANHYDRASE

SEE DEHYDRATASES, CARBONIC ANHYDRASE

CARBONIC ANHYDRASE INHIBITORS

SEE ENZYME INHIBITORS, CARBONIC ANHYDRASE INHIBITORS

CARBONYL COMPOUNDS

R01HL-18163-04 Red cell membrane effects due to oxidizing agents

CARBOPOLYCYCLICS

SEE CYCLICS, CARBOPOLYCYCLICS

CARBORANES

SEE METALS, BORON COMPOUNDS, BORANES

CARBOXYL GROUPS

R01HL-14680-07 Specific enrichment of myoglobins for carbon 13 NMR (catacea)
R01HL-16471-05 Cardioactive alloyohimbines and related indole alkaloids
R01HL-17930-03 Platelet membrane function--Assessment and application (animals)
R01HL-19278-03 Ristocetin induced platelet aggregation (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-20079-02 0001 Thromboresistant material - Active and passive thromboresistant surfaces
R01HL-20764-02 Elastin and calcification in pulmonary and vascular disease (human, mammals)

CARBOXYL GROUPS, CARBOXYLATION

** P01HL-11414-11 0035 Thrombosis and atherosclerosis program - Mechanism of action of vitamin K (rats)
R01HL-14847-07 Mechanism of action of vitamin K and anticoagulants (rats)
** R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
R01HL-20577-03 The mechanism of action of vitamin K
R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)

CARBOXYLATION

SEE CARBOXYL GROUPS, CARBOXYLATION

CARBOXYLESTERASES

SEE CARBOXYLIC ESTER HYDROLASES, CARBOXYLESTERASE

CARBOXYLIC ACIDS, ENOLATES

R01HL-21367-02 Polyether ionophores--Synthesis of X537A and analogs

CARBOXYLIC ESTER HYDROLASES, ARGININE ESTERASE

P50HL-14153-07 0015 Johns Hopkins Lung Center--Chronic diseases of airways - Kinins and human lung
P60HL-15160-07 0016 Center for sickle cell disease - Kinin and plasmin system in sickle cell disease (human)
R01HL-18526-03 Kinins and the human lung
P50HL-19157-02 0008 Studies in cystic fibrosis and bronchiolitis - Serum proteins in cystic fibrosis (human)

CARBOXYLIC ESTER HYDROLASES, CARBOXYLESTERASE

R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)

CARBOXYPEPTIDASE

SEE PROTEASES AND PEPTIDASES, CARBOXYPEPTIOASE

CARBOXYPEPTIDASE A

SEE PROTEASES AND PEPTIDASES, CARBOXYPEPTIDASE

CARBOXYPEPTIDASE B

SEE PROTEASES ANO PEPTIOASES, CARBOXYPEPTIOASE

CARCINOGENESIS, CHEMICAL

SEE NEOPLASTIC TRANSFORMATION, CARCINOGENESIS, CHEMICAL

CARCINOGENS (GENERAL)

SEE NEOPLASTIC TRANSFORMATION, CARCINOGENS (GENERAL)

CARCINOGENS, CHEMICAL

SEE NEOPLASTIC TRANSFORMATION, CARCINOGENS, CHEMICAL

CARCINOGENS, DRUGS

SEE NEOPLASTIC TRANSFORMATION, CARCINOGENS, CHEMICAL

CARCINOID

SEE NEOPLASMS OF NERVOUS SYSTEM, CARCINOIO

CARDENOLIDES

SEE CAROIAC GLYCOSIDES AGLYCONES, CARDENOLIDES

CARDIAC ANEURYSMS

SEE HEART OISORDERS, ANEURYSMS

CARDIAC ARRHYTHMIA

SEE HEART OISOROERS, ARRHYTHMIA

CARDIAC ASSIST

SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST

CARDIAC GLYCOSIDES

SEE ALSO STEROIDS GLYCOSIDES
R01HL-02953-17 Autonomic and cardiovascular pharmacology (rats, rabbits, dogs, guinea pigs)
** R01HL-05883-18 0003 Reflex control of resistance and capacitance vessels - Cardiac glycosides and sympathetic nerve terminals in vascular smooth muscle
** R01HL-05883-18 0004 Reflex control of resistance and capacitance vessels - Left ventricular receptors with nonmedullated vagal afferents (cats)
R01HL-08893-14 Structure and function of membrane proteins (human)
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
P01HL-11351-12 0001 Cellular and molecular mechanisms of myocardial function - Ionic control of myocardial contractility (animals)
P01HL-11351-12 0010 Cellular and molecular mechanisms of myocardial function - Basic ionic exchange studies (rats)
P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
** P01HL-13108-09 0018 Clinical heart transplantation - Electrophysiologic studies of cardiac drugs in the denervated heart
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
** P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
** R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
P01HL-16117-05 0005 Ion movements and membranes in cardiovascular control - Properties of isolated cell membranes (rabbits, cats)
R01HL-16549-04 Cardiotonic steroid-NaK ATPase interactions (cattle)
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
** P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
P60HL-17269-04 0022 National heart and blood vessel research and demonstration center - Medicinal chemistry (rabbit, dog, guinea pig)
R01HL-17629-03 Oevelopmental aspects of cardiovascular function (human, cats, rabbits)
** R01HL-18185-04 Cardiac glycosides and diuretics--Role of Na0 pump (dogs)
R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
R01HL-19076-03 Vagal control of heart rate--A biophysical model (rabbits)
** R01HL-19129-04 Cardiac glycosides--Mechanisms of cellular actions
** P01HL-19259-03 0004 Digoxin-specific antibody in human therapy - Oigitalis-specific antibodies pharmacological studies (human, dogs, sheep)
R01HL-20230-02 Analysis of the action potential of cardiac muscle (sheep)
** R01HL-20262-02 Cardiac glycosides and the mechanism of the sodium-potassium pump
P01HL-20552-02 0004 The development and regression of cardiac hypertrophy - Ventricular function in experimentally induced hypertrophy (hogs, sheep, baboons)
** R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
** R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
R23HL-21262-02 Sodium-calcium interactions in mammalian myocardium (rabbits, cats)
R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
** R01HL-22079-01 Heart receptor sites for digitalis and steroid hormones (animals)
R01HL-22484-01 Neural control of cardiac conduction and excitation (dogs)
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)
M P01HL-22619-01 Cellular mechanisms of heart failure
** P01HL-22619-01 0002 Cellular mechanisms of heart failure - Structure of sodium, potassium-adenosine triphosphatase (lambs, dogs)
** P01HL-22619-01 0004 Cellular mechanisms of heart failure - Mechanism of action of Na, K-ATPase (sheep, cattle)
P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)

CARDIAC GLYCOSIDES, DIGITALIS

P01HL-06312-17 0030 Surgical cardiology - Total artificial heart (calves)
P01HL-06312-17 0051 Surgical cardiology - Oiuretic therapy on myocardial electrolyte composition and water content (human)
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
R01HL-10608-12 Digoxin-specific antibodies (human)
R01HL-10951-11 Neural control of the heart (dogs, rats)
P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Oevelopmental electrophysiology and pharmacology (human, animals)
R01HL-12774-08 Ionic coupling in activation of cardiac muscle (frogs, guinea pigs)
P01HL-13108-09 0008 Clinical heart transplantation - Physiology and pharmacology of the transplanted human heart
P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
P50HL-14187-07 0005 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary hypertension and cardiac function (dogs, human)
P01HL-14388-07 0211 Regulation of the circulation in pathological states - Choline acetyltransferase activity (rats)
** P01HL-14388-07 0234 Regulation of the circulation in pathological states - Effects of antiarrhythmic drugs on the autonomic system (dogs)
R01HL-14545-06 Mechanics of compensatory ventricular hypertrophy (dogs)
R01HL-14646-05 Pathophysiology of myocardial ischemia (dogs, rats)
P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-15758-06 Catecholamine release in the heart (dogs)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
R01HL-16135-05 Mechanisms of cardiac autorhythmicity (dogs, bats)
P01HL-16607-05 0003 Calcium ion and control of cardiovascular function - Calcium transport in sarcoplasmic membranes (animals)
** R01HL-16611-04 Oigitalis-receptor of the heart (guinea pigs, rats)
R01HL-16656-06 Left ventricular function in exercise (dogs)
P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
** R01HL-17451-05 Oigitalis effects on cardiac automaticity mechanisms
R01HL-17452-04 Oepolarization induced cardiac automaticity (human, animals)
** R01HL-17555-05 Oistribution and metabolism of labeled digitaloids (dogs, guinea pigs)
** R01HL-17796-04 Importance of aminosugars in digitalis activity (cats, rabbits)
** R01HL-17993-04 0007 Ventricular dynamics from surgically inserted markers - Oigitalis after coronary artery surgery (human)
** R01HL-18003-05 Oigitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)
** R01HL-18598-03 Role of Na, K-ATPase inhibition on digitalis action
** R01HL-18657-03 Pharmacologic studies on neurogenic digitalis effects (human, cats, dogs)
R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
** P01HL-19259-03 0004 Oigoxin-specific antibody in human therapy - Oigitalis-specific antibodies pharmacological studies (human, dogs, sheep)
** R01HL-19487-03 Cardiac actions of digitalis (dogs, cats)
R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
** R01HL-21052-01 Evaluation of a digitalis therapy advisor
R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
** R23HL-21196-02 Oigitalis induced arrhythmia and NAO KO-atpase activity (dogs)
R01HL-21922-01 Transient currents induced by strophanthidin in the heart
** R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
** R01HL-22079-01 Heart receptor sites for digitalis and steroid hormones (animals)
** P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude Indexing at the specific level.
** Related significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for Investigator's name and grant number.

CARDIAC GLYCOSIDES, DIGITOXIN

R01HL-13639-07 Factors altering the course of myocardial dysfunction (cats)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
M P01HL-19259-03 Digoxin-specific antibody in human therapy
** R23HL-21083-02 Pharmacokinetics of digoxin and digitoxin in humans (rats)
R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)

CARDIAC GLYCOSIDES, DIGOXIN

P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease Myocardial performance, metabolism and ultrastructure (human, cats, rats)
** R01HL-10608-12 Digoxin-specific antibodies (human)
** P01HL-11310-12 0059 Mechanisms of cardiovascular disease - Contractility--Acute response to digoxin after heart surgery (children)
P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
P01HL-13108-09 0008 Clinical heart transplantation - Physiology and pharmacology of the transplanted human heart
P01HL-13108-09 0018 Clinical heart transplantation - Electrophysiologic studies of cardiac drugs in the denervated heart
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
P01HL-14388-07 0234 Regulation of the circulation in pathological states - Effects of antiarrhythmic drugs on the autonomic system (dogs)
R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
R01HL-17796-04 Importance of aminosugars in digitalis activity (cats, rabbits)
R01HL-17853-03 Peripheral circulation in heart failure (animals)
M P01HL-19259-03 Digoxin-specific antibody in human therapy
** P01HL-19259-03 0001 Digoxin-specific antibody in human therapy - Primary structure of monoclonal antibodies (rabbits)
** P01HL-19259-03 0002 Digoxin-specific antibody in human therapy - Chemical semi-synthesis of digoxin-specific antibody (rabbits)
** P01HL-19259-03 0003 Digoxin-specific antibody in human therapy - Synthesis of digoxin-specific antibody in continuous cell culture (human, sheep)
P01HL-19259-03 0006 Digoxin-specific antibody in human therapy - Core
** R23HL-21083-02 Pharmacokinetics of digoxin and digitoxin in humans (rats)
R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
** R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
** R01HL-22750-01 Digoxin in heart failure with sinus rhythm (human)
** R01HL-23980-01 Effects of digoxin therapy in newborn and adult sheep

CARDIAC GLYCOSIDES, OUABAIN

R01HL-02953-17 Autonomic and cardiovascular pharmacology (rats, rabbits, dogs, guinea pigs)
P01HL-06285-18 0199 Cardiovascular-respiratory physiology and biochemistry - Renal tubular reabsorption of sodium chloride (hamsters, rabbits)
P01HL-06664-17 0039 Cardiopulmonary function in remediable vascular disease - Transepithelial active transport and cell volume regulation (frogs)
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
P01HL-12157-11 0033 Functions and mechanisms of cell membrane ion transport - Immunology aspects of active Na-K transport in sheep red cell (also human, mice)
** P01HL-12157-11 0049 Functions and mechanisms of cell membrane ion transport - Ouabain-insensitive cation transport in duck red cells
P01HL-12157-11 0052 Functions and mechanisms of cell membrane ion transport - Active electrical properties of the synthetic strand
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
R01HL-14545-06 Mechanics of compensatory ventricular hypertrophy (dogs)
P01HL-14985-07 0012 Adaptation to hypoxia Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
R01HL-15758-06 Catecholamine release in the heart (dogs)
P01HL-15835-06 0018 Study of muscles related to heart disease - Pharmacology of excitation coupling in muscle (frog, barnacles)
R01HL-16318-21 Biochemistry and pharmacology of Na-K transport
P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
R01HL-17796-04 Importance of aminosugars in digitalis activity (cats, rabbits)
** R01HL-17879-04 Molecular structure of the ouabain sensitive ATPase (dogs)
R01HL-18053-03 Intracellular ionic activities in heart muscle (frogs)
R01HL-18598-03 Role of Na, K-ATPase inhibition on digitalis action
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
R01HL-19129-04 Cardiac glycosides--Mechanisms of cellular actions
R01HL-19995-02 Sensory transduction in cardiac mechanoreceptors (cats, frogs, rats)
R01HL-20262-02 Cardiac glycosides and the mechanism of the sodium-potassium pump
R01HL-21371-02 Energy loss microanalysis of myocardial cations
R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)

CARDIAC GLYCOSIDES AGLYCONES, BUFADIENOLIDES

R01HL-18118-04 Total synthesis of cardiac aglycones

CARDIAC GLYCOSIDES AGLYCONES, CARDENOLIDES

SEE ALSO CARDIAC GLYCOSIDES AGLYCONES, DIGITOXIGENIN
SEE ALSO CARDIAC GLYCOSIDES AGLYCONES, DIGOXIGENIN
SEE ALSO CARDIAC GLYCOSIDES AGLYCONES, STROPHANTHIDIN
R01HL-18118-04 Total synthesis of cardiac aglycones
** R01HL-21457-01 C(17)-side group geometry and cardenolide activity (cats, guinea pigs)

CARDIAC GLYCOSIDES AGLYCONES, DIGITOXIGENIN

R01HL-18118-04 Total synthesis of cardiac aglycones

CARDIAC GLYCOSIDES AGLYCONES, DIGOXIGENIN

R01HL-16549-04 Cardiotonic steroid-NaK ATPase interactions (cattle)

CARDIAC GLYCOSIDES AGLYCONES, STROPHANTHIDIN

R01HL-05883-18 0003 Reflex control of resistance and capacitance vessels - Cardiac glycosides and sympathetic nerve terminals in vascular smooth muscle
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
P01HL-11351-12 0001 Cellular and molecular mechanisms of myocardial function - Ionic control of myocardial contractility (animals)
R01HL-13639-07 Factors altering the course of myocardial dysfunction (cats)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
R01HL-14614-07 Voltage control of contraction in heart (sheep)
R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
R01HL-17451-05 Digitalis effects on cardiac automaticity mechanisms
R01HL-19487-03 Cardiac actions of digitalis (dogs, cats)
** R01HL-21922-01 Transient currents induced by strophanthidin in the heart

CARDIAC MUSCLE

SEE HEART, MYOCARDIUM

CARDIAC OUTPUT

SEE HEART FUNCTION, CARDIAC OUTPUT

CARDIAC OUTPUT ABNORMALITIES

SEE HEART DISORDERS, OUTPUT ABNORMALITIES

CARDIAC TAMPONADE

SEE HEART DISORDERS, CARDIAC TAMPONADE

CARDIODYNAMICS

SEE HEART FUNCTION

CARDIOGENIC SHOCK

SEE HEART DISORDERS, CARDIOGENIC SHOCK

CARDIOLIPINS

SEE PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, CARDIOLIPINS

CARDIOMYOPATHIES

SEE HEART DISORDERS, MYOCARDIAL DISORDERS

CARDIOMYOPATHY, HYPERTROPHIC

SEE HEART DISORDERS, MYOCARDIAL DISORDERS, HYPERTROPHIC MYOCARDIOPATHY

CARDIPPROTECTIVE AGENTS

SEE CARDIOVASCULAR AGENTS, CARDIOTONIC AND CARDIOPROTECTIVE DRUGS (GENERAL)

CARDIOPULMONARY BYPASS

SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART-LUNG BYPASS

CARDIOPULMONARY DISEASE

SEE RESPIRATORY CIRCULATORY DISORDERS, PULMONARY HEART DISEASE

CARDIORENAL DISORDERS

SEE KIDNEY-CIRCULATORY DISORDERS

CARDIOTONIC DRUGS

SEE CARDIOVASCULAR AGENTS, CARDIOTONIC AND CARDIOPROTECTIVE DRUGS (GENERAL)

CARDIOVASCULAR AGENTS

SEE ALSO CARDIOVASCULAR DISORDERS CHEMOTHERAPY
R01HL-01486-23 Quantitative study of T-wave mechanisms (human, rabbits, dogs, chickens)
R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
** P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06835-17 0039 Cardiovascular disease - Reversibility of vascular changes in renal hypertension (rats)
P01HL-06835-17 0051 Cardiovascular disease - Cardiopulmonary volume in hypertension (human)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-10608-12 Digoxin-specific antibodies (human)
M P01HL-12373-10 Cardiopulmonary physiology and pathophysiology
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
** R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
M P01HL-14388-07 Regulation of the circulation in pathological states
P01HL-14414-07 0010 Environmental influences on cardiorespiratory and cellular functions - Pressure effects on cardiac electrical phenomena (animals)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
** R01HL-16471-05 Cardioactive alloyohimbines and related indole alkaloids
R01HL-16474-05 Antibiotic-ion interactions (model membranes)
P01HL-16607-05 0003 Calcium ion and control of cardiovascular function - Calcium transport in sarcoplasmic membranes (animals)
R01HL-16643-02 Fluorocarbon emulsions as artificial blood (animals)
P60HL-17269-04 0024 National heart and blood vessel research and demonstration center - Section of experimental cardiovascular surgery--Core facility
R01HL-17341-03 Practical total synthesis of prostaglandins
** R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
R01HL-18084-03 Artificial heart and related problems (calves)
R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
R01HL-18253-03 Structure of the palytoxins
R01HL-18590-03 Cerebral blood flow after cardiac arrest (dogs, monkeys)
R01HL-19DDD-03 Irreversible myocardial injury (rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
R01HL-19399-02 Atherosclerosis--Early events and regression factors (rats)
R01HL-20080-02 Surgically induced myocardial edema (dogs)
R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
** R01HL-22005-01 Intermittent retroperfusion of ischemic myocardium (dogs)
** R01HL-22269-01 Excitation-contraction coupling in enlarged hearts (rabbits)
** R01HL-22685-01 Drugs and excitation-contraction coupling in heart (animals)
R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)
R01HL-22732-01 Central organization of cardiac afferent nerves (cats, monkeys)

CARDIOVASCULAR AGENTS, ANTIARRHYTHMIC AGENTS

R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
** R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
** P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
** P01HL-06308-18 0029 Mechanisms and therapy of circulatory disease - Characterization of the patient with recurrent ventricular arrhythmias
P01HL-06308-18 0037 Mechanisms and therapy of circulatory disease - Electrophysiology, blood flow, and ANS in ventricular fibrillation (dogs)
R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
** R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
** R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
P01HL-08682-15 0017 Regulation of the cardiovascular system - Neurally induced cardiac dysrhythmias (dog)
R01HL-09283-14 Pharmacology of molluscan hearts (also rabbits)
P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
** P01HL-11310-12 0078 Mechanisms of cardiovascular disease - Ventricular arrhythmias in acute myocardial infarction (dogs)
P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
** P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
** P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
** P01HL-12738-10 0042 Physiologic pharmacology and its clinical applications - Centrogenic cardiac arrhythmias (cats)
** P01HL-12738-10 0044 Physiologic pharmacology and its clinical applications - Cardioactive drugs and electrophysiological properties of cardiac cells (sheep)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
P01HL-12738-10 0080 Physiologic pharmacology and its clinical applications - Electrophysiology of cardiac muscle in the mitral valve (monkeys)
P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
P01HL-12738-10 0107 Physiologic pharmacology and its clinical applications - Blood superfused cardiac fibers (dogs)
** P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
P01HL-12738-10 0109 Physiologic pharmacology and its clinical applications - Effects of calcium blockers on skeletal and cardiac muscle (cats)
** P01HL-12738-10 0110 Physiologic pharmacology and its clinical applications - Physiology and pharmacology of arrhythmias (dogs)
P01HL-12738-10 0117 Physiologic pharmacology and its clinical applications - Ventricular arrhythmias in ischemic heart disease (human)
** P01HL-12738-10 0132 Physiologic pharmacology and its clinical applications - Coronary occlusions and arrhythmias (dogs)
** P01HL-12738-10 0136 Physiologic pharmacology and its clinical applications -
P01HL-13108-09 0008 Clinical heart transplantation - Physiology and pharmacology of the transplanted human heart
P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
** P01HL-13108-09 0018 Clinical heart transplantation - Electrophysiologic studies of cardiac drugs in the denervated heart
** P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
R01HL-13375-09 Cellular potential changes causing cardiac arrhythmias (dogs)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
** R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
** P01HL-14388-07 0234 Regulation of the circulation in pathological states - Effects of antiarrhythmic drugs on the autonomic system (dogs)
P01HL-14414-07 0010 Environmental influences on cardiorespiratory and cellular functions - Pressure effects on cardiac electrical phenomena (animals)
R01HL-14614-07 Voltage control of contraction in heart (sheep)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
** R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
** R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
** R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
R01HL-15740-06 In vitro studies on heart cell function (rats)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
R01HL-16135-05 Mechanisms of cardiac autorhythmicity (dogs, bats)
R01HL-17452-04 Depolarization induced cardiac automaticity (human, animals)
R01HL-17555-05 Distribution and metabolism of labeled digitaloids (dogs, guinea pigs)
R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
P50HL-17646-04 0015 Study of ischemic heart disease - Protecting ischemic myocardium in patients with evolving myocardial infarction
P50HL-17646-04 0017 Study of ischemic heart disease - Dysrhythmia associated with acute myocardial infarction (human, cat)
** P50HL-17648-04 0014 Study of ischemic heart disease - Antidysrhythmic drugs and mammalian cardiac Purkinje fibers (sheep, dog)
P50HL-17651-04 0022 Ischemic heart disease specialized center of research - Electrophysiology--Mechanism and pharmacology of arrhythmias (human, dog)
P50HL-17655-04 0001 Study of ischemic heart disease - Intravenous nitroglycerin--Ventricular function and infarct size (human, dog)
P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
** P50HL-17670-04 0011 Study of ischemic heart disease - Pharmacology of ischemic myocardium (dogs)
P50HL-17682-04 0001 Study of ischemic heart disease - Studies in acute and chronic ischemic heart disease (human)
R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
R01HL-18769-04 Studies in survivors of lethal arrhythmias (human)
R01HL-18783-04 Detection and control of ventricular premature beats (human)
R01HL-18794-04 Prospective studies of conduction disease (human)
R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
R01HL-18805-04 0004 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Clinical follow-up and therapy (human)
R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
R01HL-19216-03 Characterization of cardiac pacemaker activity (cat, dog, rabbit)
R01HL-19343-03 Behavioral influences on cardiac contractility (monkeys)
R01HL-19398-03 Regional conduction abnormalities and arrhythmias (dogs)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-20211-02 Role of taurine in the heart (dogs, rats, mice)
R01HL-20238-02 Prospective bundle branch block study (human)
R01HL-20579-02 Synthesis of therapeutically important alkaloids
** R01HL-20754-02 Anesthetic-induced myocardial depression (rabbits)
R23HL-21196-02 Digitalis induced arrhythmia and NAO KO-atpase activity (dogs)
** R01HL-21221-02 Clinical antiarrhythmic and pharmacodynamic studies
** R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
** R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL-21735-01 Electrophysiology after healed myocardial infarction (cats)
** R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)
R01HL-22484-01 Neural control of cardiac conduction and excitation (dogs)
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
** R01HL-22862-01 CNS-mediated effects of antiarrhythmic drugs (dogs)
R01HL-23071-01 Electrophysiology of lethal arrhythmias (dog, human)
R01HL-23599-01 Mechanisms of ischemic rhythm disorders (dogs)
** R01HL-23624-01 Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs)
** R01HL-23726-01 Treatment of ventricular arrhythmias with propranolol (human)
R01HL-23970-01 Mechanisms and control of sudden cardiac death (human, dog)

CARDIOVASCULAR AGENTS, ANTIATHEROGENIC AGENTS

SEE ALSO CHOLESTANE SERIES, CHOLESTEROL INHIBITORS
SEE ALSO LIPOGENIC INHIBITORS
** P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
P50HL-14230-07 0094 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of atherosclerosis and regression (monkeys)
** R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)

CARDIOVASCULAR AGENTS, ANTIHYPERTENSIVE AGENTS

SEE ALSO CARDIOVASCULAR AGENTS, VASODILATORS
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
P01HL-03174-23 0001 Mechanisms of acute vascular reaction to injury - Response of the vascular intima to injury (human, rats)
P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
** P01HL-06835-17 0037 Cardiovascular disease - Cardiac hypertrophy in spontaneously hypertensive rat
P01HL-06835-17 0040 Cardiovascular disease - Benign and malignant phase of renal hypertension (dogs)
P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
P01HL-06835-17 0046 Cardiovascular disease - Renin activity during salt depletion in essential hypertension (human)
P01HL-06835-17 0053 Cardiovascular disease - Vasodilating drugs (human)
P01HL-06835-17 0057 Cardiovascular disease - Studies on cardiac hypertrophy
P01HL-06835-17 0060 Cardiovascular disease - Ventricular performance experimental models of arterial hypertension (rats, dogs)
** R01HL-07502-13 Phytochemistry of the genus thalictrum (dogs, plants)
R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
R01HL-10711-12 Cooperative study of treatment of hypertension (human)
R01HL-10942-09 Study of genetic hypertension in rats
P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension
P01HL-11678-11 0034 Cardiovascular dynamics and their control - Renal function curves in intact dogs
R01HL-12648-09 Catecholamine metabolism in hypertensive diseases (human)
R01HL-12684-09 Angiotensin I and converting enzyme in hypertension (human, primates, dogs)
** P01HL-12738-10 0042 Physiologic pharmacology and its clinical applications - Centrogenic cardiac arrhythmias (cats)
P01HL-12738-10 0111 Physiologic pharmacology and its clinical applications - Cardiovascular pharmacology (dogs)
P01HL-12738-10 0129 Physiologic pharmacology and its clinical applications - Receptor specificities and metabolism of vasopressin analogs
R01HL-12971-15 Reactions of alkoloids and their analogs

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R01HL-13187-09 Central neural control of cardiovascular function (cats)
P01HL-13262-07 0011 Arterial wall in atherosclerosis Role of hypertension in atherosclerosis (human, monkey, dog)
R01HL-13587-06 Synthesis of renin inhibitors and enelog phosphatidas (rats)
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
** R01HL-13634-08 Renal hypertension in pregnancy (sheep)
R01HL-13936-06 Microvascular responses in hypertension (human, rats)
** R01HL-14127-16 Methemoglobinemia and antihypertensive drugs (cats, mice, rats)
P50HL-14159-08 0008 Specialized center of research in hypertension - Renal function and sodium metabolism in hypertension (rats, human, rabbits)
P50HL-14159-08 0018 Specialized center of research in hypertension - Sympathetic nervous system in hypertension (rats)
P50HL-14192-08 0001 Specialized center of research in hypertension - Surgical and medical treatment of renovascular hypertension (human)
P50HL-14192-08 0002 Specialized center of research in hypertension - Hypertensive patients with renal artery stenosis
P50HL-14192-08 0003 Specialized center of research in hypertension - Prostaglandins as mediators of renin secretion (human, dog)
P50HL-14192-08 0005 Specialized center of research in hypertension - New techniques for recognition of renovascular hypertension (human, dogs)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0194 Regulation of the circulation in pathological states - Dopamine-beta-hydroxylase localization and release in hypertension
R01HL-14913-06 Hypertension--Genetic influence of kidney (rats)
R01HL-14944-07 Renal vascular reactivity in hypertensive patient
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
** R01HL-15378-06 Ultrastructure of antihypertensive prostaglandins
R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
R01HL-17243-05 Cause of chronic experimental renal hypertension (dogs, rabbits)
R01HL-17335-05 Contractile properties of hypertensive arterioles (rats)
** R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
** R01HL-17897-03 Synthesis of alpha and beta adrenergic antagonists
R01HL-17902-04 Mammalian renal microcirculation (hamsters)
R01HL-17947-04 Experimental renal and neurogenic hypertension (human, animals)
** R01HL-18175-03 Drug taking for hypertension in a rural community
P50HL-18318-03 0001 Pathogenesis and complications of hypertension - Core clinical program
P50HL-18318-03 0014 Pathogenesis and complications of hypertension - Arterial metabolism and atherogenesis (rat, rabbit)
P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
P50HL-18323-04 0012 SCOR hypertension center - Renin as a risk factor (human)
P50HL-18323-04 0043 SCOR hypertension center - Pharmacology--Renin-aldosterone mechanisms in essential hypertension (human)
P50HL-18323-04 0045 SCOR hypertension center - Laboratory programs--Prorenin (human)
R25HL-18406-03 Adherence to hypertensive medical regimens (human)
R25HL-18414-03 Hypertension--Family strategies for patient adherence
R25HL-18418-03 Role of a supporting partner in adherence (human)
R25HL-18424-03 Blood pressure education in an industrial setting (human)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
R01HL-18629-04 Influence of aging and hypertension on the myocardium (rats)
R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
** R01HL-18891-02 Electrolyte intake and blood pressure in hypertension (human)
** R01HL-19112-03 Atherosclerosis studies (monkeys)
** R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
** P50HL-19362-02 0010 A/S SCOR- Atherosclerosis in nonhuman primates Antihypertensive therapy--Atherogenesis in experimental hypertension (baboon)
** R01HL-19538-03 Synthesis of potential antihypertensive agents
R01HL-19568-03 Hypertension--Analysis of drug and behavioral therapies (human)
R01HL-20087-02 Developmental processes in pulmonary hypertension (rats)
R01HL-20194-01 Brain catecholamines in control of blood pressure (rats)
R01HL-20244-02 he impact of hypertension information
R01HL-20245-01 The impact of hypertension information
R01HL-20247-01 The impact of hypertension information
R01HL-20248-01 The impact of hypertension information
R01HL-20455-03 Role of systemic hypertension on diabetic retinopathy (human)
R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
** P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
P01HL-20552-02 0003 The development and regression of cardiac hypertrophy - Muscle mechanics of the hypertrophied left ventricle (rats)
R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood flow in hypertension (rats)
R01HL-20604-03 Sympathectomy--Cardiovascular and molecular pharmacology (animals)
R01HL-21274-01 Prorenin--Physiological and biochemical analysis (human)
** R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
R01HL-21427-02 Behavioral changes in post infarction patients
R01HL-21877-01 Iso-renins in the hypertensive rat
R01HL-22032-01 Cardiovascular events in hypertensives (human)
R01HL-22216-02 Vascular mechanisms in renal hypertension (dogs)
R01HL-22296-01 Autonomic mechanisms in man
R01HL-22298-02 Origins of hypertension (human)
R01HL-22341-01 Pathogenesis of atherosclerosis in rats
** R23HL-22345-02 0002 Behavioral cardiovascular compliance strategies - Compliance with antihypertensive medication regimens (human)
** R01HL-22417-01 Microprocessors in medical applications (dogs)
R01HL-22506-01 Hemodynamics of the clinical hypertensions
R01HL-22563-02 Prostaglandins, the kidney and hypertension (rats)
** R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)
** R01HL-22896-01 Immediate metabolic fates of kinins and angiotensins (rat, rabbit, guinea pig)
R01HL-23201-01 Mechanisms of hypertension (human, rats)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)
N01HV-12434-11 Therapy for hypertension in the general population
** N01HV-12435-15 Therapy for hypertension in the general population (human)
N01HV-12436-15 Hypertension therapy in the general population (human)
N01HV-12440-14 Therapy for hypertension in the general population (human)
N01HV-12442-14 Therapy for hypertension in the general population (human)
N01HV-22931-14 Therapy for hypertension in general population
N01HV-22937-07 Therapy for hypertension in general population
N01HV-22938-11 Therapy for hypertension in general population
N01HV-22939-12 Hypertension detection and follow-up program center
N01HV-22945-11 Cooperative hypertension detection and follow-up study (human)
N01HV-22971-07 Prevention of coronary heart disease (human)
N01HV-22976-07 Multiple risk factor intervention trial, prevention of coronary heart disease
N01HV-22977-08 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22979-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22981-10 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33101-06 Development and conduct of a multiple risk factor intervention trial (human)
N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33108-04 Prevention of coronary heart disease (human)
N01HV-33109-04 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33110-04 Prevention of coronary heart disease (human)
N01HV-42929-08 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42930-09 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42931-07 Risk factor intervention trial for the prevention of CHD (men)
N01HV-42932-05 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42933-09 Multiple risk factors in coronary heart disease (human)
N01HV-62900-00 Study of breast cancer and reserpine use (human)
** N01HV-72915-02 Therapy for hypertension in the general population
N01HV-82913-00 Demonstration programs in hypertension control in the work setting (human)
N01HV-82915-01 Therapy for hypertension in the general population (human)

CARDIOVASCULAR AGENTS, ARRHYTHMIC AGENTS

R01HL-17555-05 Distribution and metabolism of labeled digitaloids (dogs, guinea pigs)
R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
R01HL-19487-03 Cardiac actions of digitalis (dogs, cats)
** R23HL-21196-02 Digitalis induced arrhythmia and NAO KO-atpase activity (dogs)
** R01HL-21922-01 Transient currents induced by strophanthidin in the heart

CARDIOVASCULAR AGENTS, CARDIOTONIC AND CARDIOPROTECTIVE DRUGS (GENERAL)

P01HL-06285-18 0153 Cardiovascular-respiratory physiology and biochemistry - Myocardial mechanics and pharmacology in isolated papillary muscle (animals)
P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
** P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
P01HL-06296-18 0007 Cardiovascular and pulmonary adaptation to stress - Cardiovascular control during isometric exercise (cats)
P01HL-06312-17 0036 Surgical cardiology - Experimental studies of cardiac compliance (dogs)
** P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
** P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
** P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
** P01HL-12738-10 0044 Physiologic pharmacology and its clinical applications - Cardioactive drugs and electrophysiological properties of cardiac cells (sheep)
** P01HL-12738-10 0107 Physiologic pharmacology and its clinical applications - Blood superfused cardiac fibers (dogs)
P01HL-12738-10 0109 Physiologic pharmacology and its clinical applications - Effects of calcium blockers on skeletal and cardiac muscle (cats)
** P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
R01HL-14706-07 Fetal hearts in organ culture (mice)
R01HL-15247-05 Extending the life of implanted pacemakers (dogs, human)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
R01HL-15498-06 Effects of physical training on heart (rats)
R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P01HL-16117-05 0001 Ion movements and membranes in cardiovascular control - Developmental studies of contractile cell junctions (rats, rabbits, elasmobranch)
P01HL-16117-05 0005 Ion movements and membranes in cardiovascular control - Properties of isolated cell membranes (rabbits, cats)
R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
R01HL-16240-05 The cardiac histamine receptor (rabbits, guinea pigs)
R01HL-16657-06 Innervation of coronary arteries and heart (rats)
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
P50HL-17646-04 0001 Study of ischemic heart disease - Core clinical investigation unit
P50HL-17646-04 0003 Study of ischemic heart disease - Core pathology facility (human, dogs)
P50HL-17646-04 0013 Study of ischemic heart disease - Maintenance of myocardial vascular integrity after revascularization (dogs)
** P50HL-17646-04 0015 Study of ischemic heart disease - Protecting ischemic myocardium in patients with evolving myocardial infarction
P50HL-17655-04 0001 Study of ischemic heart disease - Intravenous nitroglycerin--Ventricular function and infarct size (human, dog)
P50HL-17665-04 0020 Study of ischemic heart disease - Ischemic injury to myocardium during measured states of ischemia (human)
P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)
** P50HL-17667-04 0022 Study of ischemic heart disease - Preventing myocardial injury in surgery using cardiopulmonary bypass (human, rat)
P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
P01HL-18646-03 0010 Studies basic to heart transplantation - Development and study of a heart preservation chamber (dogs, sheep)
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
** R01HL-19044-03 Effect of drugs on development of cardiac failure (cats)
R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
R01HL-19325-03 Phosphodiesterase inhibition and muscle contraction
** R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
** R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
** R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)
R01HL-21367-02 Polyether ionophores--Synthesis of X537A and analogs
** R01HL-21457-01 C(17)-side group geometry and cardenolide activity (cats, guinea pigs)
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL-21719-01 Computed cardiac tomography in infarct sizing (dogs, human)
** R01HL-21786-01 Long-term effects of myocardial protection (dogs, rats)
R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
R01HL-21922-01 Transient currents induced by strophanthidin in the heart
R01HL-22008-01 Left ventrivular calcium content and contractility (rats)
R01HL-22269-01 Excitation-contraction coupling in enlarged hearts (rabbits)
R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)
** R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors
** R01HL-22778-01 Total synthesis of natural cardiotonic ionophores
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)
R01HL-23599-01 Mechanisms of ischemic rhythm disorders (dogs)

CARDIOVASCULAR AGENTS, VASOACTIVE AGENTS (GENERAL)

SEE ALSO PEPTIDES, VASOACTIVE PEPTIDES
R01HL-03181-21 0027 Hemodynamics as applied to surgical problems - Hemodynamic studies of the GI tract (dogs)
** R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
P01HL-06285-18 0132 Cardiovascular-respiratory physiology and biochemistry - Umbilical-placental circulatory responses (lambs)
** P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
P01HL-06835-17 0027 Cardiovascular disease - Studies in thrombosis-cross-linking of fibrinogen (human)
R01HL-08311-14 Effects of drugs upon myocardial hypoxia (dogs, turtles)
R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo--Capillary membrane in normal pulmonary hypertensive lung
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
P01HL-10436-13 0015 A multidisciplinary study of congenital heart disease - Fetal and neonatal cardiovascular physiology (sheep)
R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
** P01HL-11310-12 0065 Mechanisms of cardiovascular disease - Algorithms for arterial pressure by automatic vasoactive agents control (human)
P01HL-11678-11 0059 Cardiovascular dynamics and their control - Basic hemodynamics (dogs, rats)
** R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
R01HL-12607-10 Dynamics of pulsatile blood flow (human, dogs, rats)
R01HL-12614-09 Microcirculatory control mechanisms and hypertension (bats, rats)
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
R01HL-12684-09 Angiotensin I and converting enzyme in hypertension (human, primates, dogs)
P01HL-12738-10 0111 Physiologic pharmacology and its clinical applications - Cardiovascular pharmacology (dogs)
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)
** P01HL-13262-07 0018 Arterial wall in atherosclerosis - Vasoactive factors of human plasma
R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
R01HL-13437-09 Physical and mechanical parameters in the microcirculation (animals)
R01HL-13936-06 Microvascular responses in hypertension (human, rats)
M P50HL-14187-07 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses
** P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
P50HL-14187-07 0015 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pathophysiologic responses of pulmonary capillary bed (dog, human)
P50HL-14187-07 0016 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Core pathology service (dogs, rabbits, human)
** P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in ROS (sheep, cat)
R01HL-14306-07 Quantification of arterial pressure control (dogs)
P01HL-14388-07 0154 Regulation of the circulation in pathological states - Energetics of smooth muscle contraction (rats)
P01HL-14388-07 0163 Regulation of the circulation in pathological states - Adrenergic receptors in coronary vessels (dogs)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
** P01HL-14388-07 0186 Regulation of the circulation in pathological states - Angiotension in modulation of neurogenic vasoconstriction
P01HL-14388-07 0187 Regulation of the circulation in pathological states - Histamine and circulatory control
P01HL-14388-07 0196 Regulation of the circulation in pathological states - Altered vascular responsiveness in spontaneous hypertension (rats)
P01HL-14388-07 0197 Regulation of the circulation in pathological states - Altered vascular reactivity in pathogenesis of spontaneous hypertension (rats)
P01HL-14388-07 0198 Regulation of the circulation in pathological states - Humoral factors in vascular reactivity in spontaneously hypertensive rats
** P01HL-14388-07 0199 Regulation of the circulation in pathological states - Adrenergic stimulation in spontaneously hypertensive rats
P01HL-14388-07 0210 Regulation of the circulation in pathological states - Effects of dietary sodium on blood pressure and vascular reactivity
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
P01HL-14388-07 0225 Regulation of the circulation in pathological states - Release of renal prostaglandins by saluretic-diuretic agents (dogs)
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
R01HL-14944-07 Renal vascular reactivity in hypertensive patient
P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
P01HL-14985-07 0014 Adaptation to hypoxia - High altitude pulmonary edema (human, rats, dogs)
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
R01HL-15447-06 Vascular role of prostaglandin and cyclic nucleotides (rats)
R01HL-15562-05 Regulation of skeletal muscle blood flow (dogs)
R01HL-15607-06 Physiological control of splanchnic circulation (dogs)
** P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
** P01HL-15832-06 0011 Chemical-structural predispositions to lung injury - Interaction of cell receptors with vasoactive agents in pulmonary vascular bed
P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
R01HL-16094-06 The dynamics of microcirculatory function (dogs)
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
R01HL-16489-04 Renal prostaglandins--Synthesis and function (human, dogs, rats)
R01HL-16588-05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
R01HL-16666-05 Micropinocytosis in isolated capillary endothelium
P01HL-16910-05 0008 Regulation of the peripheral circulation - Circulation to bone (dogs, baboons)
P01HL-17421-05 0001 Regulation and exchange in the microcirculation - Mass transfer and microcirculatory function (rats)
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
P50HL-17646-04 0012 Study of ischemic heart disease - Role of microcirculation in progression of myocardial ischemic injury (rat)
** P50HL-17646-04 0016 Study of ischemic heart disease - Humoral factors in ischemic heart rhythm, mechanical performance (dog, rabbit)
P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
P50HL-17651-04 0015 Ischemic heart disease specialized center of research - Peripheral circulation in acute myocardial ischemia and infarction (human)
P50HL-17682-04 0021 Study of ischemic heart disease - Prostaglandin biosynthesis in blood vessels from ischemic myocardium (rat, sheep)
R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
P01HL-17812-04 0007 Thrombosis and plasma proteins - Blood components--Response to endotoxin (dogs, baboons)
R01HL-17932-04 Blood flow regulation in muscle (cats)
R01HL-17947-04 Experimental renal and neurogenic hypertension (human, animals)
R01HL-18002-03 Circulatory shock, trauma and RE-system function (rats)
R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
** R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18080-03 Extrinsic control of intestinal microcirculation (dogs)
R01HL-18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)
** R01HL-18199-03 Effects of ions on vascular reactivity

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-18259-03 Controlled intratissue release of prostaglandins
P50HL-18318-03 0014 Pathogenesis and complications of hypertension - Arterial metabolism and atherogenesis (rat, rabbit)
** P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
** R01HL-18489-03 Hemodynamic interactions of vasoactive chemicals (rats)
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arterias and resistance vessels in hypertension (pigs, rats)
P01HL-18575-03 0007 Mechanisms of vascular changes in hypertension - Microscopy of hypertensive arterial lesions (rats)
** R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
R01HL-18657-03 Pharmacologic studies on neurogenic digitalis effects (human, cats, dogs)
R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
P50HL-18828-03 0002 Specialized center of research in thrombosis - Endothelial cell biology (human, guinea pig)
R01HL-18831-03 Microscopy of spontaneously hypertensive arterial lesion (rats)
R01HL-18866-02 Microvascular flow, volume, and reactivity (rats, cats)
R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)
** R01HL-18936-02 Heart preservation and transplantation studies (rat)
R01HL-18977-03 Non-invasive diagnosis of peripheral arterial disease (human, dogs)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
R01HL-19066-03 Synthesis and evaluation of prostaglandin metabolites (guinea pigs)
R01HL-19082-01 Hypoxia-induced relaxation of vascular smooth muscle
R01HL-19134-04 Angiotensin, prostaglandins, adrenergic interactions (rats, rabbits)
P50HL-19185-02 0006 Pulmonary SCOR–Neonatal respiratory distress syndromes - Evaluation of risk factors in neonatal respiratory distress (human, sheep)
R01HL-19225-02 0003 Types and mechanisms of pulmonary hypertension - Cardiopulmonary function in pigs and rats
P01HL-19242-02 0001 Study of vascular smooth muscle - Energy metabolism and protein turnover in vascular smooth muscle (rats)
** P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
P01HL-19242-02 0009 Study of vascular smooth muscle - Electrophysiology of vascular smooth muscle (rats, chick embryo)
** R01HL-19275-03 Characterization of collateral blood vessels (dogs)
R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-19870-03 Hypertensive progeny–Physical and humoral precursor search
R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
R01HL-20054-02 Cultured blood vessel cells–Pathophysiology (human, animals)
R01HL-20328-01 Noninvasive assessment of autonomic cardiac control (dogs)
R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
P01HL-20581-01 0001 Vascular neuroeffector mechanisms in health and disease - Vascular neuroeffector mechanism (rabbits)
P01HL-20581-01 0003 Vascular neuroeffector mechanisms in health and disease - Cerebrovascular neuroeffector characteristics (animals)
R01HL-20787-02 Thromboxanes and prostaglandins–Biochemical pharmacology (rabbits, human)
R01HL-20924-02 Atherosclerosis and arterial cell functions (human, rabbits)
R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
P01HL-21016-02 0013 Sickle cell anemia and other hemoglobinopathies - Microcirculatory response to sickle cell treated with anti-sickling agents (rats)
** R23HL-21203-02 Effect of vasoactive agents on left-to-right shunts (lambs)
R01HL-21221-02 Clinical antiarrhythmic and pharmacodynamic studies
R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
R23HL-21382-02 Effect of pressure on renal blood flow and function (dogs)
R01HL-21429-02 Transport of LDL in arterial wall (human, mammals)
** R23HL-21434-02 Intrinsic control of coronary blood flow by chemicals (guinea pigs)
R01HL-21438-02 Structure and permeability of arterial endothelium (pigs)
R01HL-21657-01 Regional non ischemic myocardial hypoxia (dogs)
R01HL-21670-01 Antiarrhythmic studies on 2 substituted aminoindenes (dogs)
R01HL-21851-01 Cerebral microcirculation in experimental hypertension (cats, rabbits)
R23HL-22075-01 Metabolism of arachidonic acid in blood vessels (chickens, mammals)
** R01HL-22077-01 Vasoactive amine disposition in cultured endothelium (rabbits)
R01HL-22087-02 Humoral mediators of pulmonary inflammation (guinea pigs)
R01HL-22177-02 Mechanisms of control of pulmonary smooth muscle (dogs)
R01HL-22216-02 Vascular mechanisms in renal hypertension (dogs)
R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
R01HL-22463-02 Pinocytotic vesicles and pulmonary edema (rats)
R01HL-22561-01 Hormonal control of mesenteric circulation (cats)
R01HL-22569-02 Intestinal secretion–Capillary and tissue forces (dogs, cats)
P01HL-22619-01 0008 Cellular mechanisms of hand failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)
R01HL-23171-01 Coronary collateral circulation in myocardial ischemia (dog, pig, rat, human)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
R01HL-23239-01 Functional characteristics of pulmonary vascular smooth muscle (dogs)
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)
R01HL-23542-01 Pulmonary vascular smooth muscle cell dynamics (rat, rabbit)
R01HL-23604-01 Hepatic microvascular regulatory mechanisms (rat)

CARDIOVASCULAR AGENTS, VASODILATORS

SEE ALSO CARDIOVASCULAR AGENTS, ANTIHYPERTENSIVE AGENTS

R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
P01HL-06664-17 0034 Cardiopulmonary function in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
P01HL-06664-17 0043 Cardiopulmonary function in remediable vascular disease - Alveolar hypoxic vasoconstriction–Control and clinical significance (dog, human)
P01HL-06835-17 0037 Cardiovascular disease - Cardiac hypertrophy in spontaneously hypertensive rat
** P01HL-06835-17 0053 Cardiovascular disease - Vasodilating drugs (human)
P01HL-07896-15 0019 Environmental biomedical research program - Hyperoxic myopia (human)
P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
R01HL-10834-09 Fetal and neonatal pulmonary circulation (goats)
R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
** R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
P50HL-14187-07 0012 Pulmonary SCOR–Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
P50HL-14217-08 0051 Specialized center of research in thrombosis - Microcirculation section (bat, hamster)
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
P01HL-14985-07 0015 Adaptation to hypoxia - Pregnancy at high altitude (human, animals)
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
** R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
P01HL-16910-05 0001 Regulation of the peripheral circulation Quantitative studies of microcirculatory control (bats)
P50HL-17655-04 0014 Study of ischemic heart disease Blood flow and gas tension in myocardial ischemia and infarction (dog, monkey)
P50HL-17682-04 0021 Study of ischemic heart disease Prostaglandin biosynthesis in blood vessels from ischemic myocardium (rat, sheep)
R01HL-18020-04 Splenchnic hemodynamics in man
** R01HL-18292-04 Vasodilation and microvascular oxygen delivery (dog, hamster)
P50HL-18318-03 0019 Pathogenesis and complications of hypertension Renin-angiotensin system in blood pressure regulation (human, rat, dog)
R01HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
R01HL-18882-02 Hormones in hypertension (human)
** R01HL-18994-03 Substance P-Occurrence, pharmacology and physiology (mammals non-human, human)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
R01HL-19062-03 Pharmacologic control of mast cell phosphodiesterase (human, rats)
R01HL-19218-03 Local regulation of coronary flow by prostaglandins (rabbits)
R01HL-19225-02 0001 Types and mechanisms of pulmonary hypertension - Structural changes (human, animals)
R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
R01HL-20194-01 Brain catecholamines in control of blood pressure (rats)
R01HL-20579-02 Synthesis of therapeutically important alkaloids
R01HL-20895-03 0008 Cinaangiographic studies of cardiovascular system - Intracoronary anastomotic circulation–Stenosis and occlusion (dogs)
P01HL-21016-02 0008 Sickle cell anemia and other hemoglobinopathies - The clinical varieties of sickle cell anemia
R01HL-21034-01 Compensatory responses to arterial occlusion (dogs)
R23HL-21203-02 Effect of vasoactive agents on left-to-right shunts (lambs)
R01HL-21800-01 Angiotensin effects on water intake and excretion
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)
R01HL-22612-01 Stabilized prostacyclins to treat vascular disease
R23HL-22975-01 Dynamics of autoregulation of muscle blood flow (dogs)
** R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)

CARDIOVASCULAR AGENTS, VASODILATORS, CORONARY

R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
P01HL-04664-18 0011 Cardiovascular and lung dynamics - Detection of abnormal segments of the human ventricle by measure of asynergy
P01HL-04664-18 0012 Cardiovascular and lung dynamics - Quantitative single plane left ventricular angiography (human)
P01HL-04664-18 0013 Cardiovascular and lung dynamics - Ventricular function in coronary disease using NTG and ventriculograms (human)
P01HL-04664-18 0014 Cardiovascular and lung dynamics - Clinical application of computer analysis of ventricular wall motion
P01HL-06312-17 0016 Surgical cardiology - Effect of hydralazine on infarct size following coronary occlusion (human)
R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
R01HL-08892-10 Cooperative study of drugs and coronary heart disease
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
P01HL-11310-12 0056 Mechanisms of cardiovascular disease - Cardiac output response to blood pressure reduction in infants (human)
P01HL-11310-12 0057 Mechanisms of cardiovascular disease - Blood pressure reduction after heart surgery in adults (human)
** P01HL-11310-12 0058 Mechanisms of cardiovascular disease - Dynamic response to vasodilating agents postoperatively (human)
R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
** R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
P01HL-16117-05 0005 Ion movements and membranes in cardiovascular control - Properties of isolated cell membranes (rabbits, cats)
P01HL-16117-05 0007 Ion movements and membranes in cardiovascular control - Physiological and molecular properties of ionophores (dogs, rabbits)
R01HL-16292-05 0010 Surgery and non-obstructive coronary insufficiency - Effects of exercise on flow distribution (dogs)
** R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
** R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
P01HL-16910-05 0002 Regulation of the peripheral circulation - Coronary circulation (dogs)
R01HL-17459-03 Myocardial ischemia (dogs)
R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
P50HL-17646-04 0015 Study of ischemic heart disease - Protecting ischemic myocardium in patients with evolving myocardial infarction
P50HL-17646-04 0016 Study of ischemic heart disease - Humoral factors in ischemic heart rhythm, mechanical performance (dog, rabbit)
P50HL-17651-04 0002 Ischemic heart disease specialized center of research - Reduction of myocardial ishemic injury by pharmacologic agents (human, dog)
P50HL-17651-04 0045 Ischemic heart disease specialized center of research - Peripheral vascular studies--Pharmacology (dogs, human)
P50HL-17655-04 0001 Study of ischemic heart disease - Intravenous nitroglycerin--Ventricular function and infarct size (human, dog)
P50HL-17682-04 0005 Study of ischemic heart disease - Regional myocardial perfusion deficits and segmental contraction disorders in man
P50HL-17682-04 0020 Study of ischemic heart disease - Nucleotide and nucleoside metabolism in ischemic myocardium
R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
R01HL-18190-03 Myocardial blood flow in acute myocardial infarction (human, dogs)
R01HL-18468-03 The distribution of flow in the myocardium (dog, pig)
R01HL-18537-04 Regional blood flow after acute myocardial injury (dogs)
R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
** R01HL-19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
R01HL-19275-03 Characterization of collateral blood vessels (dogs)
R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
R01HL-19675-02 Coronary pharmacoangiography
** R01HL-19937-02 Vasodilators in experimental myocardial infarction (dogs)
R01HL-20226-02 Cardiac bypass and coronary collateral physiology (dogs)
R01HL-20253-02 Effects of exercise on the heart and its blood supply (dogs)
R01HL-20598-03 The coronary vascular response to ischemia (dogs, pigs)
R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)
R01HL-22952-01 Validation of quantitative coronary arteriography (dogs)
** R01HL-23653-01 Protection of the ischemic myocardium (dogs)

CARDIOVASCULAR AGENTS, VASOPRESSORS

** P01HL-06835-17 0056 Cardiovascular disease - Angiotensin analogs--Sarcosine on arterial pressure, aldosterone (dogs)
P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
P50HL-14217-08 0061 Specialized center of research in thrombosis - Pharmacology--Comparison of platelets and vascular smooth muscle (animal)
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
R01HL-14775-08 Mechanisms of drug action in vascular smooth muscle (dog, rabbits)
R01HL-16292-05 0017 Surgery and non-obstructive coronary insufficiency - Cardiopulmonary resuscitation (human)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
R01HL-16916-04 0011 The role of albumins in lung water accumulation - Whole body distribution and exchange of albumin (rabbits, human, monkeys)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
P50HL-17667-04 0031 Study of ischemic heart disease - Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey)
** R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
R01HL-18979-02 Mechanisms in local regulation of coronary flow (rabbits)
R01HL-19218-03 Local regulation of coronary flow by prostaglandins (rabbits)
R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
R01HL-20895-03 0010 Cineangiographic studies of cardiovascular system - Cortical necrosis and acute renal failure (human, dogs, rats, rabbits)
R01HL-21308-01 Prostaglandins and local control of the circulation (rats, dogs)
R01HL-21877-01 Iso-renins in the hypertensive rat
** R01HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)

CARDIOVASCULAR AND PULMONARY RESEARCH STUDY SECTION

** R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
** R01HL-03303-21 Factors regulating electrolyte excretion by the kidney (human, dogs)
** R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
** R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
** R01HL-07047-16 Comparative study of cardiac conduction system (human, birds, mammals)
** R01HL-07605-16 Congenital heart disease research program (human, dogs)
** R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
** R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
** R01HL-08789-11 Respiratory muscles and ventilatory control in man (and dogs)
** R01HL-08977-14 Quantitation of flow and solute flux in microvessels (cats, rats)
** R01HL-09711-13 Instantaneous blood flow in ascending aorta (human, dogs)
** R01HL-10009-13 Regional lung function in man
** R01HL-10330-11 Physiological mechanics of the heart and arteries (dogs, rabbits, horses)
** R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
** R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
** R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
** R01HL-10942-09 Study of genetic hypertension in rats
** R01HL-10951-11 Neural control of the heart (dogs, rats)
** R01HL-11289-12 Analysis of stress in pulsatile dynamics
** R01HL-11717-09 Effect of stenotic obstructions on flow in arteries (dogs)
** R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
** R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
** R01HL-12083-11 Flow field in aorta and its major branches (dogs, phantom models)
** R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
** R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
** R01HL-12486-10 Structure-function correlation in the atrium (rabbits)
** R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
** R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
** R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
** R01HL-12690-09 Systemic and local vascular adjustment in shock (monkeys, cats)
** R01HL-12774-08 Ionic coupling in activation of cardiac muscle (frogs, guinea pigs)
M R01HL-12879-09 Pulmonary transport and metabolism in vivo
** R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
** R01HL-13134-07 Mechanism of chemoreceptor discharge (cats)
** R01HL-13375-09 Cellular potential changes causing cardiac arrhythmias (dogs)
** R01HL-13596-07 Clearance of plasma proteins from alveoli
** R01HL-13639-07 Factors altering the course of myocardial dysfunction (cats)
** R01HL-13645-11 Tryptophan-induced pulmonary emphysema (cattle, goats, rabbits)
** R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
** R01HL-13824-06 Defense mechanisms in pathogenesis of emphysema (human, dogs)
R01HL-13888-15 Regulation of respiration
** R01HL-13921-07 The lung as a metabolic organ (animals)
** R01HL-14456-07 Lung metabolism--Enzymes in the pulmonary circulation (human, animals)
** R01HL-14545-06 Mechanics of compensatory ventricular hypertrophy (dogs)
** R01HL-14614-07 Voltage control of contraction in heart (sheep)
** R01HL-14645-07 Blood flow measurement by ultrasonic catheter tip methods (human, dogs)
** R01HL-14663-07 Pulmonary oxygen toxicity in newborn lung (human, mice)
** R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
** R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
** R01HL-14706-07 Fetal hearts in organ culture (mice)
** R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
** R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
** R01HL-14870-06 Dynamics of oxygen and carbon dioxide regulation (animals)
** R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
** R01HL-14903-07 A new index of cardiac contractility (human, dogs, baboons)
** R01HL-14967-06 Chemoreceptor function in dynamic ventilatory control (human, dogs)
** R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
** R01HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
** R01HL-15316-07 Lung surfactant system--Control mechanisms (rats)
** R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
** R01HL-15526-05 Respiratory mechanics in children
** R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
** R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
** R01HL-15677-06 Autonomic nervous system function in bronchial asthma (human, guinea pig, rabbit)
** R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
** R01HL-15694-06 Pulmonary factors in circulatory regulation
** R01HL-15740-06 In vitro studies on heart cell function (rats)
** R01HL-15764-05 C-AMP dependent protein kinase in cardiac contraction (dogs)
** R01HL-15810-06 Electrolyte physiology and respiratory acid-base (dogs)
** R01HL-15888-05 Comparative stereology of the myocardium (birds, mammals)
** R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
** R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
** R01HL-16094-06 The dynamics of microcirculatory function (dogs)
** R01HL-16135-05 Mechanisms of cardiac autorhythmicity (dogs, bats)
** R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
** R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
** R01HL-16325-03 Breathing patterns in man
** R01HL-16328-06 Membrane electrical properties of vascular muscle (human, animals)
** R01HL-16330-06 Aging-tissue injury and repair (rats)
** R01HL-16419-03 Arterial uptake of lipoprotein--Kinetic analysis (rabbits)
** R01HL-16436-04 Role of calcium and thyroxine in heart function (rats)
** R01HL-16463-05 Localization of airways obstruction and responses
R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)
** R01HL-16725-03 Physiological regulation of pulmonary surfactant (dogs, rats)
** R01HL-16828-04 Gradient and transport of oxygen in tissue and organs (mammals)
** R01HL-16901-05 Multipolar linkage between heart geometry and surface (human, dogs)
M R01HL-16916-04 The role of albumins in lung water accumulation
** R01HL-17246-03 Oxygen uptake at one minute of exercise (human)
** R01HL-17314-04 Effects of anesthesia and loading on respiration (human, cats)
** R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
** R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL 17376-04 Analysis of Z bands in heart by optical diffraction (mammals)
** R01HL 17403-03 Metabolic control of cardiac output (dogs)
** R01HL 17517-03 Arterial wall oxygen transport in atherosclerosis (rabbits, dogs)
** R01HL-17581-03 Patent ductus arteriosus and pulmonary hypertension (dogs)
** R01HL 17591-03 Development of electromagnetic rheoangiography (human, dogs)
** R01HL-17689-06 Neurophysiologic studies of respiratory control (cats)
** R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
** R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
** R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
** R01HL-17800-04 Pulmonary reflexes--Central pathways (cats, dogs, rabbits)
** R01HL 17808-03 Effect of altered oxygen affinity on oxygen transport (human, rats)
** R01HL-17809-04 Effects of exercise on the coronary vasculature (rat, dog)
** R01HL-17853-03 Peripheral circulation in heart failure (animals)
** R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
** R01HL-17903-03 Regional circulatory responses to hypoxia (rats, cats, rabbits)
** R01HL-17932-04 Blood flow regulation in muscle (cats)
** R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
** R01HL-18020-04 Splanchnic hemodynamics in man
** R01HL-18022-03 Role of multicomponent diffusion in gas exchange (avian eggs)
** R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
** R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
** R01HL-18080-03 Extrinsic control of intestinal microcirculation (dogs)
** R01HL-18145-03 Oxygen transport mechanisms in hypoxia (dogs, rats, rabbits)
** R01HL-18156-02 Hemodynamics in curved arteries
** R01HL-18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)
** R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)
** R01HL 18328-03 Hemoglobin function and tissue oxygenation (human, dogs)
** R01HL-18338-04 Computer feedback study of cardiac muscle mechanics (rats)
** R01HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
** R01HL-18537-04 Regional blood flow after acute myocardial injury (dogs)
** R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
** R01HL-18630-03 Pulmonary hemodynamics in atelectasis and hypoxia (dogs)
** R01HL-18647-03 Ischemic myocardial injury in cultured heart cells (rats)
** R01HL-18710-02 Non-invasive reflection oximetry in peripheral tissue (dogs)
** R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
** R01HL-18736-03 Protein transport through arterial tissue (rabbits)
** R01HL-18749-03 Ventricular mechanics in the overloaded heart (dogs)
** R01HL-18866-02 Microvascular flow, volume, and reactivity (rats, cats)
** R01HL-18933-03 Energy output and efficiency of left ventricle (dog)
** R01HL-18969-02 Arterial wall oxygenation (rabbits, dogs)
** R01HL-18977-03 Non-invasive diagnosis of peripheral arterial disease (human, dogs)
** R01HL-18979-02 Mechanisms in local regulation of coronary flow (rabbits)
** R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
** R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
** R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
** R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
** R01HL-19135-04 Heterogeneity of regional myocardial blood flow (dogs)
** R01HL-19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
** R01HL-19216-03 Characterization of cardiac pacemaker activity (cat, dog, rabbit)
** R01HL-19218-03 Local regulation of coronary flow by prostaglandins (rabbits)
M R01HL-19225-02 Types and mechanims of pulmonary hypertension
** R01HL-19256-03 Arterial baroreceptors in cardiovascular control (dogs)
** R01HL-19257-03 Cardiovascular adjustment to behavioral stress (dog)
** R01HL 19275-03 Characterization of collateral blood vessels (dogs)
** R01HL 19298-03 Pulmonary hemodynamics (dogs, cats)
** R01HL 19299-03 Myoglobin and oxygen supply to heart and muscle cells (rats, pigeons)
** R01HL 19352-03 Respiratory heat and water loss in neonates
** R01HL-19391-03 Dynamic determinants of left ventricular filling (dogs)
** R01HL 19398-03 Regional conduction abnormalities and arrhythmias (dogs)
** R01HL 19423-03 Catecholamine action on the heart (cats, rats)
** R01HL-19431-03 Regional mucociliary transport in the human lung
** R01HL-19449-03 Gas exchange in acute respiratory failure
** R01HL-19460-03 Mechanics of the papillary muscle and the left ventricle (cats, rabbits)
** R01HL-19461-03 Myocardial energetics in hypertrophy and heart failure (rabbits)
** R01HL-19485-03 Calcium uptake by normal and failed cardiac ATPase (dogs)
** R01HL-19486-03 Dipole moment measurement of cardiac mass (rabbits, pigs)
** R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
** R01HL-19674-02 Electrolyte permeability of single capillaries (frogs)
** R01HL-19676-02 Physico-chemical interactions in pulmonary surfactant
R01HL-19678-01 Quantification of intrathoracic fluid by impedance (human, dogs)
** R01HL 19768-02 Recording and analysis of low levels cardiac signals (human, dogs)
** R01HL-19827-02 Role of the upper airways in the control of breathing (human, cats, dogs)
** R01HL-19848-02 Contractile activation by rapid temperature jumps (frogs)
** R01HL-19937-02 Vasodilators in experimental myocardial infarction (dogs)
** R01HL-20087-02 Developmental processes in pulmonary hypertension (rats)
** R01HL-20122-02 Operational mechanisms of airway receptors (dogs, pigs)
** R01HL-20184-02 Desensitization of tracheal muscle to isoproterenol (rats, rabbits)
** R01HL-20192-02 Ciliary activity of the lung studied by laser scattering
** R01HL-20196-02 Regulation of coronary arterial smooth muscle
** R01HL-20286-02 Interventions to improve cardiac function in ischemia (dogs)
** R01HL-20328-01 Noninvasive assessment of autonomic cardiac control (dogs)
** R01HL-20344-02 Regulation of protein turnover in lung tissue (rats)
** R01HL-20352-02 Defenses of lung cells against oxygen toxicity (human, animals)
** R01HL-20354-02 Direct determination of oxygen tension in the clinical environment (human, dogs)
** R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
** R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
** R01HL-20564-02 Pathogenesis of peripheral arterial disease (rats, rabbits)
** R01HL-20566-02 Lactate metabolism in the lung (rats)
** R01HL-20568-03 Respiration during prolonged hypercapnia (rats)
** R01HL-20574-03 Brain stem integration of chemoreceptor activity (cats)
** R01HL-20598-03 The coronary vascular response to ischemia (dogs, pigs)
** R01HL-20607-02 Tissue analysis by mass spectrometer (dogs)
** R01HL-20611-02 Airway smooth muscle and cyclic nucleotides
** R01HL-20612-02 Chronic animal model of pulmonary vascular injury (dogs)
** R01HL-20643-02 Analysis of heart cell contraction (rats)
** R01HL-20648-01 Physical factors and coronary flow (dogs)
** R01HL-20652-01 Sites of leakage in pulmonary edema (dogs)
** R01HL-20690-02 Pulmonary hemodynamics in lung edema during PEEP (dogs)
** R01HL-20719-02 Cold induced pulmonary hypertension (cattle)
** R01HL-20815-02 Validation of indirect tests of small airways function (human, dogs, ponies)
** R01HL-20847-02 Respiratory neurochemical control (human, goats)
** R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
** R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
** R01HL-21032-02 Injury, wall thickness, and arterial wall oxygenation (dogs, rabbits)
** R01HL-21034-01 Compensatory responses to arterial occlusion (dogs)
** R01HL-21038-01 Electrically induced cardiac EM-histochemical changes (animals)
** R23HL 21042-01 Cardiopulmonary reflexes and their anatomical basis (dogs)
** R23HL 21050-02 Mechanisms of re-expansion pulmonary edema (rabbits)
** R01HL 21099-02 Subcellular changes of blood vessels in hypertension (rats)
** R01HL 21140-01 Studies of pulmonary alveolar macrophage function (rabbits)
** R01HL-21158-02 Cardiac receptors with vagal C fiber afferents (cats)
** R23HL 21168-01 Hypoxemic respiratory failure Physiologic evaluation (human, dogs)
** R01HL-21176-02 Phospholipid exchange proteins in lung tissue (lambs)
** R23HL-21197-02 Right ventricular contraction and relaxation (dogs)
** R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)
** R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
** R23HL-21298-02 Coronary vasomotion (dogs, pigs)
** R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)
** R01HL-21342-02 Isolation and analysis of sodium channel from heart (frogs)
** R23HL-21368-02 Perinatal cardiac electrophysiology (dogs)
** R01HL-21376-02 Blood-gas barrier solute and water transport (rabbits)
** R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
** R01HL-21444-02 Pulmonary mechanics during postnatal development (human)
** R01HL-21452-02 Pulmonary capillary filtration in myocardial ishemia (dogs)
** R01HL-21482-01 Cardiac function and metabolism in diabetes (rats)
** R01HL-21500-02 Performance of respiratory muscles under stress (dogs)
** R01HL-21518-01 Improvement in regional ventilation-perfusion resolution (human)
** R23HL-21539-02 Mechanical properties of isolated small bronchioles (rabbits)
** R23HL-21559-01 Oxygen supply and blood flow through aortic vasa vasorum (dogs)
** R01HL-21568-02 Cell biology of the alveolar-capillary unit (animals)
** R01HL-21570-01 The mechanical basis of myocardial energetics (cats)
** R01HL-21657-01 Regional non-ischemic myocardial hypoxia (dogs)
** R01HL-21735-01 Electrophysiology after healed myocardial infarction (cats)
** R23HL-21783-01 Ionic control of contractility in anoxic myocardium (rabbits, rats)
** R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
** R23HL-21842-01 Control of sugar entry in normal and diabetic heart (rats)
** R23HL-21853-01 Lung metabolism and alveolo-capillary permeability (rats)
** R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
** R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)
** R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
** R01HL-22022-01 Respiratory muscle dysfunction in respiratory failure (human)
** R01HL-22077-01 Vasoactive amine disposition in cultured endothelium (rabbits)
** R01HL-22079-01 Heart receptor sites for digitalis and steroid hormones (animals)
** R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)
** R01HL-22137-02 Structure-function pathology of isolated heart cells (mice, rats)
** R01HL-22177-02 Mechanisms of control of pulmonary smooth muscle (dogs)
** R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
** R01HL-22235-01 Mechanism of cardiac pacemaking (rabbits)
** R01HL-22313-01 Lung elastic recoil--Age and disease (human)
** R01HL-22333-01 Cellular basis of small airways function (rats)
** R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
** R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)
** R01HL-22418-01 Neural control of cardio-respiratory function (cats)
** R01HL-22435-02 Pulmonary alveolar-capillary permeability characteristic (dogs)
** R01HL-22446-01 Chemical and functional studies of low copper in lung (pigs)
** R01HL-22463-02 Pinocytotic vesicles and pulmonary edema (rats)
** R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)
** R01HL-22484-01 Neural control of cardiac conduction and excitation (dogs)

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**Oriented significantly to above subject.

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** R01HL-22546-02 Baroreceptor reflex mechanisms in man
** R01HL-22549-02 Transport across alveolar capillary membrane (dogs)
** R01HL-22622-01 Sleep apnea and desaturation-mechanisms and incidence (human)
** R01HL-22664-01 Regulation of myocardial cell growth (rats, guinea pigs)
** R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))
** R01HL-22723-01 The morphologic basis of airflow obstruction (human)
** R01HL-22732-01 Central organization of cardiac afferent nerves (cats, monkeys)
** R01HL-22843-01 Pulmonary physiology in liquid ventilation (lambs)
** R01HL-22862-01 CNS-mediated effects of antiarrhythmic drugs (dogs)
** R23HL-22920-01 Dynamic airway behavior (dogs)
** R01HL-22924-01 The airway mucosal barrier (guinea pigs)
** R01HL-23015-01 Mechanisms of hypo-oncotic pulmonary edema (human, dogs)
** R01HL-23604-01 Hepatic microvascular regulatory mechanisms (rat)
** R01HL-23624-01 Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs)
** R01HL-23626-01 A study of the regulation of myocardial hypertrophy (rats)
** R01HL-23653-01 Protection of the ischemic myocardium (dogs)
** R01HL-23969-01 Surfactant synthesis by type II cells in vitro (rats)
** R01HL-23982-01 Control of coronary flow by carbon dioxide tension (dogs)
** R01HL-23985-01 Role of the diaphragm in regional lung mechanics (dogs)

CARDIOVASCULAR AND RENAL STUDY SECTION

** R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
** R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
** R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
** R01HL-01486-23 Quantitative study of T-wave mechanisms (human, rabbits, dogs, chickens)
** R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
** R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
** R01HL-05875-18 Pathologic metabolic and physiologic studies of heart (human, dogs, cats)
** R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
** R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
** R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
** R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
** R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
** R01HL-09234-13 Amino acids of contractile proteins of failing hearts (dogs, hamsters)
** R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
** R01HL-09831-12 Effect of resistivity variations on electrocardiogram (human)
** R01HL-09911-12 Hormonal and dietary modification of NaC1 toxicity (rats) mice)
** R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
** R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
** R01HL-10417-12 Multiple systems in electrocardiography (human)
M R01HL-10612-13 Humoral factors in heart failure and hypertension
** R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
** R01HL-11152-12 Vascular physiology (human, cats, dogs)
** R01HL-11876-11 Regional myocardial blood flow and metabolism (dogs, swine)
** R01HL-12307-08 Non-surgical treatment of congenital heart disease (human, dogs)
** R01HL-12607-10 Dynamics of pulsatile blood flow (human, dogs, rats)
** R01HL-12611-10 Basic and clinical studies of the ST-T deflection (human, dogs)
** R01HL-12614-09 Microcirculatory control mechanisms and hypertension (bats, rats)
** R01HL-12684-09 Angiotensin I and converting enzyme in hypertension (human, primates, dogs)
** R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
** R01HL-12775-08 Cerebral microcirculation (mice)
** R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
** R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
** R01HL-13323-08 Intrarenal pressure and renal function (human, dogs)
** R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
** R01HL-13437-09 Physical and mechanical parameters in the microcirculation (animals)
** R01HL-13454-08 Behavioral stress and cardiomyopathy (monkeys, cats)
** R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
** R01HL-13623-08 Atrial receptors (dogs)
** R01HL-13634-08 Renal hypertension in pregnancy (sheep)
** R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
** R01HL-13917-20 Secretion and effects of adrenal hormones (human, rabbits, sheep)
** R01HL-13936-06 Microvascular responses in hypertension (human, rats)
** R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)
** R01HL-14306-07 Quantification of arterial pressure control (dogs)
** R01HL-14461-08 Cardiac metabolism in heart failure (rats)
** R01HL-14526-07 Oral contraceptives and hypertension (rats)
** R01HL-14529-07 Systems analysis of baroreflex (dogs)
** R01HL-14560-07 Hypertension produced by sympathetic dysfunction (human, rats)
** R01HL-14646-05 Pathophysiology of myocardial ischemia (dogs, rats)
** R01HL-14688-05 Myocardial assessment by inverse electrocardiography (monkey)
** R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
** R01HL-14913-06 Hypertension--Genetic influence of kidney (rats)
** R01HL-14944-07 Renal vascular reactivity in hypertensive patient
** R01HL-15016-07 New concepts in cardiac ultrasound technology (human)
** R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
** R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
** R01HL-15270-06 Local mechanical properties of the aortic tissue (dogs, pigs)
** R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
** R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
** R01HL-15444-06 Neonatal development of adrenergic receptor mechanisms (pigs)
** R01HL-15498-06 Effects of physical training on heart (rats)
** R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)
** R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
** R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
** R01HL-15562-05 Regulation of skeletal muscle blood flow (dogs)
** R01HL-15607-06 Physiological control of splanchnic circulation (dogs)
** R01HL-15722-06 Hemorrheology studies related to in vivo blood flow (human)
** R01HL-15758-06 Catecholamine release in the heart (dogs)
** R01HL-15808-06 Role of angiotensinogen in hypertension and stroke (human, rabbits)
** R01HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
** R01HL-15839-05 Physiological role of isorenin and kallikrein (animals)
** R01HL-15852-06 Vascular ion transport and hypertensive mechanisms
** R01HL-15983-04 Regional myocardial blood flow (dogs)
** R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
** R01HL-16206-04 Regression of atherosclerotic plaques (monkeys, dogs)
** R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
** R01HL-16233-05 Molecular cardiology of MDP-induced left ventricular failure (dogs)
** R01HL-16240-05 The cardiac histamine receptor (rabbits, guinea pigs)
** R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
** R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
** R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
** R01HL-16489-04 Renal prostaglandins--Synthesis and function (human, dogs, rats)
** R01HL-16496-04 Prostaglandins and renin experimental hypertension (rabbits)
** R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
** R01HL-16567-04 Differentiation of the heart-cell membrane (mice, chick)
** R01HL-16587-04 Cholesterol binding saponins and atherosclerosis (monkeys)
** R01HL-16603-05 Human and experimental renal diseases (animals)
** R01HL-16643-02 Fluorocarbon emulsions as artificial blood (animals)
** R01HL-16648-16 Integrated control of cardiovascular activity (cats)
** R01HL-16656-06 Left ventricular function in exercise (dogs)
** R01HL-16657-06 Innervation of coronary arteries and heart (rats)
** R01HL-16658-05 Intrarenal regulation of sodium reabsorption
** R01HL-16706-04 Excitation-contraction coupling and heart failure (dogs, rabbits)
** R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
** R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
** R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
** R01HL-16918-05 Role of steroids in hypertension (human)
** R01HL-17243-05 Cause of chronic experimental renal hypertension (dogs, rabbits)
** R01HL-17335-05 Contractile properties of hypertensive arterioles (rats)
** R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)
** R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
** R01HL-17408-03 Fresh blood rheology--Relation to cardiovascular risk (human)
** R01HL-17458-04 Renal control of sodium excretion (rats)
** R01HL-17459-03 Myocardial ischemia (dogs)
** R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
** R01HL-17532-04 Infarct size--ECG, angio, path, correlation in dogs
** R01HL-17555-05 Distribution and metabolism of labeled digitaloids (dogs, guinea pigs)
** R01HL-17592-03 Activation and contraction heat in enlarged hearts (rabbits)
** R01HL-17628-03 Pulsatile pressure-flow dynamics (dogs)
** R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
** R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
** R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
** R01HL-17711-05 Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs)
** R01HL-17721-04 Effect of sex hormones on vascular connective tissue (rats)
** R01HL-17724-03 Oral contraceptives and hypertension (rats)
** R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
** R01HL-17749-03 Adrenocortical factors in human hypertension (human)
** R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)
** R01HL-17781-03 Hypertension, kidney disease and renal lymph (dogs, rats)
** R01HL-17799-02 The presence and significance of heart acetylcholine (cats)
** R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
** R01HL-17895-04 Myocardial function and metabolism following ischemia (rats)
** R01HL-17902-04 Mammalian renal microcirculation (hamsters)
** R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
** R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
** R01HL-17931-04 Normalized body surface potential maps (children)
** R01HL-17947-04 Experimental renal and neurogenic hypertension (human, animals)
** R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)
** R01HL-18019-04 The endocrine kidney in hypertension (mice)
** R01HL-18027-03 New vasoactive factors and their role in hypertension (human, dogs, rats)
** R01HL-18032-03 Development of normal and myopathic mammalian heart (hamsters)
** R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)
** R01HL-18060-04 Exercise and coronary atherosclerotic heart disease (monkeys)
** R01HL-18087-03 Development and regression of cardiac hypertrophy (rats, rabbits)
** R01HL-18102-02 Role of the adrenal cortex in human hypertension
** R01HL-18190-03 Myocardial blood flow in acute myocardial infarction (human, dogs)
** R01HL-18204-03 Regional blood flow in viral myocarditis (turkeys)
** R01HL-18280-03 Regulation of cardiac contractility and metabolism (rats)
** R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
** R01HL-18426-04 Regulation of renal hemodynamics (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-18468-03 The distribution of flow in the myocardium (dogs pig)
** R01HL-18492-03 Measurement of regional coronary flow reserve (human, dogs)
** R01HL-18517-03 Intrinsic innervation of the heart (dogs)
** R01HL-18538-03 The role of electrotonus in His-Purkinje function (dog)
** R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
** R01HL-18610-03 Early intervention of age related arterial changes (pigeon)
** R01HL-18624-03 Study of kinins in hypertension and other diseases (human)
** R01HL-18629-04 Influence of aging and hypertension on the myocardium (rats)
** R01HL-18692-03 Glycosaminoglycans and lipoproteins of human plasma
** R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
** R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
** R01HL-18831-03 Microscopy of spontaneously hypertensive arterial lesion (rats)
** R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
** R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
** R01HL-18862-02 Thirst and its contribution to edema (dogs)
** R01HL-18875-03 Angiotension, prostaglandins, pressure and the kidney (rats)
** R01HL-18882-02 Hormones in hypertension (human)
** R01HL-18891-02 Electrolyte intake and blood pressure in hypertension (human)
** R01HL-18893-03 Mechanism of angiotensin action--Role of receptor (rats)
** R01HL-18912-03 Mechanics of heart muscle contraction (cats, dogs)
** R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)
** R01HL-19009-03 Morphometric analysis of the sinoatrial node (ferret)
** R01HL-19012-03 Smooth muscle of resistance vessels in hypertension (rats)
** R01HL-19027-03 Calcium and cyclic AMP in causation of hypertension (rats)
** R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
** R01HL-19048-03 Structure of baroreceptors in hypertension (rats)
** R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
** R01HL-19076-03 Vagal control of heart rate--A biophysical model (rabbits)
** R01HL-19091-02 Sustained increase in cardiac output (dogs)
** R01HL-19112-03 Atherosclerosis studies (monkeys)
** R01HL-19133-03 Contractile and elastic properties of cardiac muscle (cats)
** R01HL-19134-04 Angiotensin, prostaglandins, adrenergic interactions (rats, rabbits)
** R01HL-19139-03 Dispersion of diffusible indicators in the body (human, cats, dogs)
** R01HL-19144-03 Contraceptive steroids and experimental hypertension (rats)
** R01HL-19209-03 Role of ADH in experimental renal hypertension (dogs, rats)
** R01HL-19226-03 Vascular smooth muscle in hypertension (rats)
** R01HL-19229-02 Prostaglandins and hypertension (human, rats, dogs, rabbits)
** R01HL-19246-03 Regression of cardiac hypertrophy--Myocardial and renal (human)
** R01HL-19251-03 An index of sympathetic activity in hypertension (rats)
** R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
** R01HL-19279-03 Intracellular action of aldosterone in hypertension (human, rats)
** R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
** R01HL-19343-03 Behavioral influences on cardiac contractility (monkeys)
** R01HL-19370-03 Coronary capillary exchange--The effects of ischemia (dogs, sheep)
** R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
** R01HL-19425-03 Cardiac function in hypertrophy (dog)
** R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
M R01HL-19451-03 Functional characteristics of the left heart
** R01HL-19454-02 Rheological factors in transport across arterial wall (dogs)
** R01HL-19467-03 Regulation of blood pressure (rats, dogs)
** R01HL-19487-03 Cardiac actions of digitalis (dogs, cats)
** R01HL-19648-03 Myocardial protein degradation (dogs, rabbits)
** R01HL-19677-03 Venous structure and function (dogs)
** R01HL-19825-02 Renin-volume interactions in coarctation hypertension (dogs)
** R01HL-19830-02 Shear to aortic histamine synthesis and permeability (dogs)
** R01HL-19977-02 Genesis of circulatory shock by pancreatic peptides (cats, dogs)
** R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
** R01HL-20054-02 Cultured blood vessel cells--Pathophysiology (human, animals)
** R01HL-20177-02 Effects of erythrocyte deformability on tissue perfusion (rats)
** R01HL-20183-02 Portacaval shunt as treatment for hyperlipemia (pigs)
** R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
** R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
** R01HL-20206-02 Carbohydrates-nucleotides and adrenergic interactions (rabbits, cats, rats)
** R01HL-20211-02 Role of taurine in the heart (dogs, rats, mice)
** R01HL-20238-02 Prospective bundle branch block study (human)
** R01HL-20273-02 Cardiac fiber direction and the QRS complex (dogs)
** R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
** R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
** R01HL-20563-02 Restoring microcirculation after platelet aggregation
** R01HL-20572-02 Hemodynamic relations to metabolism in hypertension
** R01HL-20594-02 Renal enzymes that regulate blood pressure (human, rats)
** R01HL-20597-02 Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits)
** R01HL-20604-03 Sympathectomy--Cardiovascular and molecular pharmacology (animals)
** R01HL-20610-02 Nerve growth factor and obstructive cardiomyopathy (dogs)
** R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
** R01HL-20645-01 Etiology of myocardial infaction (human)
** R01HL-20685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)
** R01HL-20749-01 Developing heart--Biophysical aspects (sheep)
** R01HL-20768-02 Mechanisms of circulatory regulation in heart failure (guinea pigs)
** R01HL-20782-01 Coronary flow regulation by adenosine (rats, dogs)
** R01HL-20827-02 Effects of hypertrophy on the coronary circulation (dogs)
** R01HL-20864-01 Postnatal maturation of cardiovascular regulatory system (minipig)
** R01HL-20883-02 Fiber geometry in hypertrophy and cardiomyopathy (human)
** R01HL-20924-02 Atherosclerosis and arterial cell functions (human, rabbits)
** R01HL-21030-01 Calcium regulation and hypertension (rats)
** R23HL-21066-02 Angiotensin and prostaglandin control of aldosterone (rats)
** R01HL-21092-02 Factors other than renin in renal hypertension (rats)
** R01HL-21094-01 Arterial baroreceptors and renal function (dogs)
** R01HL-21103-01 Parametric mechanical studies of hypertensive arteries (dogs, rats)
** R01HL-21112-02 Aldosterone binding, clearance, and secretion in man
** R01HL-21145-02 Response of atria to hyperosmolality--Mechanisms (rabbits)
** R23HL-21167-02 The electrophysiology of cardiac hypertrophy (rats)
** R01HL-21182-02 Active tension and shortening in cardiac hypertrophy (rabbits)
** R01HL-21187-01 Potassium, norepinephrine, and coronary arterial tone (dogs)
** R23HL-21234-02 The regulation of cardiac hypertrophy (rabbits)
** R01HL-21260-02 Risk factor relationships of atherosclerosis (monkeys)
** R23HL-21262-02 Sodium-calcium interactions in mammalian myocardium (rabbits, cats)
** R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
** R01HL-21274-01 Prorenin--Physiological and biochemical analysis (human)
** R01HL-21283-02 Simulation studies of the ECG in acute ischemia (and human)
** R23HL-21291-02 Renin-mineralocorticoid axis in hypertensive diabetics (human)
** R23HL-21292-01 Human ventricular activation--Patterns and mechanisms (human)
** R01HL-21308-01 Prostaglandins and local control of the circulation (rats, dogs)
** R23HL-21325-02 Sarcomere kinematics in cardiac contraction (rats, rabbits)
** R23HL-21332-02 Pulsatile regulation of flow in the microcirculation (cats)
** R01HL-21351-02 Renal and vascular control by sympathetic ganglia (animals)
** R23HL-21382-02 Effect of pressure on renal blood flow and function (dogs)
** R01HL-21418-02 Experimental myocardial infarction (rats)
** R01HL-21425-02 Servo-simulated compliance changes--A reversible MI (dogs)
** R01HL-21435-02 Control, cardiovascular and renal effects of potassium (dogs)
** R01HL-21436-02 Autonomic control of renal function (cats)
** R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
** R01HL-21493-02 Contractility in cardiac failure (hamsters)
** R01HL-21498-02 Pathophysiology of edema (rats, cats)
** R01HL-21523-01 Hemodynamic effects of dietary sodium in man
** R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
** R01HL-21574-01 Automaticity of AV node and its adjacent tissues (dogs)
** R01HL-21654-01 Autonomic determinants of arrhythmia due to ischemia (cats)
** R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
** R01HL-21779-01 Steroids in adrenal regeneration hypertension (rats)
** R01HL-21820-01 Regulatory role of myosin in cardiac hypertrophy (dogs)
** R01HL-21843-01 Ischemia, diabetes and the microcirculation (rats, cats, hamsters)
** R01HL-21850-01 Calcium transport in the hypertrophied myocardium (rats, animals)
** R01HL-21851-01 Cerebral microcirculation in experimental hypertension (cats, rabbits)
** R01HL-21877-01 Iso-renins in the hypertensive rat
** R01HL-21893-01 Blood volume distribution in hypertension (human)
** R23HL-21901-01 Hypertension, microvascular control and exercise (rats)
** R23HL-21914-01 Studies of vasomotor control (rats)
** R23HL-21917-01 Adrenal steroids in adolescent and adult hypertension
** R01HL-21993-01 Hypertensive hypertrophy--Effects of cardiac mechanics (rats)
** R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
** R01HL-22008-01 Left ventrivular calcium content and contractility (rats)
** R01HL-22040-01 Regulation of lysyl-cross-linking in vascular tissue (rats, turkeys)
** R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
** R01HL-22216-02 Vascular mechanisms in renal hypertension (dogs)
** R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
** R23HL-22245-02 Functional characteristics of atrial receptors (rats)
** R01HL-22261-01 Compliance of fluid spaces in advancing hypertension (rats)
** R01HL-22281-01 Microprobe analysis and metabolite levels of ischemic mycardium (dogs)
** R01HL-22296-01 Autonomic mechanisms in man
** R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
** R01HL-22390-01 Effect of chloride on renin (rats, dogs)
** R01HL-22411-01 Neuroendocrine involvement in hypertension (rats)
** R23HL-22438-01 The etiology of genetic hypertension (rats)
** R01HL-22482-01 Circulatory hemodynamics and sodium excretion (dogs)
** R01HL-22506-01 Hemodynamics of the clinical hypertensions
** R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
** R01HL-22563-02 Prostaglandins, the kidney and hypertension (rats)
** R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)
** R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)
** R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)
** R01HL-22623-01 Polyamines cellular mediators of atherogenesis (human)
** R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)
** R01HL-22667-01 Mechanisms of baroreceptor adaptation in hypertension (dogs)
** R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
** R23HL-22728-01 Neural control of renin secretion (dogs)
** R01HL-22738-01 Role of bioelectric potentials in platelet adherence (bats, rats, hamsters)
** R23HL-22745-01 Vascular mechanics and structure in hypertension (miniature swine)
** R01HL-22750-01 Digoxin in heart failure with sinus rhythm (human)
** R01HL-22813-01 Palmitylcarnitine inhibition of ion pumps in ischemia (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-22828-01 Adenosine and catecholamine interaction in the heart (rats)
** R01HL-22836-01 The spontaneously hypertensive kidney (rats)
** R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)
** R01HL-22911-01 Mechanism of clearance of lung edema fluid (dogs)
** R01HL-22917-01 Microvascular pressures in the intact beating heart (rabbits)
** R01HL-22928-01 Systematic study of bronchial circulation (sheep)
** R23HL-22932-01 Effect of carbon dioxide on local gas exchange (dogs)
** R23HL-22933-01 Transvascular fluid and protein exchange in the lung (sheep)
** R01HL-22939-01 Human kinin and fibrinolytic systems and renal disease (human)
** R01HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)
** R01HL-22952-01 Validation of quantitative coronary arteriography (dogs)
** R23HL-22959-01 Heart development in inherited cardiomyopathy (hamsters)
** R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)
** R23HL-22975-01 Dynamics of autoregulation of muscle blood flow (dogs)
** R01HL-22976-01 Nonuniform ventilation and diffusing capacity (human)
** R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
** R01HL-22990-01 Angiotensin II receptors--Mechanisms of regulation (rats)
** R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)
** R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)
** R01HL-23599-01 Mechanisms of ischemic rhythm disorders (dogs)
** R01HL-23600-01 Ions, water, and hypertension (human, dogs, rats)
** R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)
** R01HL-23900-01 Mechanical measurement of cell membrane viscosity (human)

CARDIOVASCULAR DEFECTS CONGENITAL

SEE CDNGENITAL ABNORMALITIES, CARDIOVASCULAR OEFECTS

CARDIOVASCULAR DISEASE EDUCATION

SEE EDUCATIDN, HEALTH EDUCATION, CARDIDVASCULAR DISEASE EDUCATION

CARDIOVASCULAR DISORDERS (GENERAL)

SEE ALSO BLODD COAGULATION OISORDERS, INTRAVASCULAR COAGULATION OISSEMINATED
SEE ALSO BLODO COAGULATION OISDRDERS, VON WILLEBRAND'S DISEASE
SEE ALSO CARBOHYDRATES METABDLISM OISDROERS, OIABETIC ANGIDPATHIES
SEE ALSO CEREBROVASCULAR OISOROERS
SEE ALSO CONGENITAL ABNDRMALITIES, CARDIOVASCULAR DEFECTS
SEE ALSD EOUCATIDN, HEALTH EDUCATIDN, CARDIOVASCULAR DISEASE EDUCATION
SEE ALSO EYE CIRCULATORY OISORDERS
SEE ALSD GASTRDINTESTINAL CIRCULATDRY DISORDERS
SEE ALSD HEART DISDRDERS
SEE ALSO KIDNEY-CIRCULATORY DISORDERS
SEE ALSO LIVER CIRCULATORY DISORDERS
SEE ALSO NEDPLASMS OF CARDIOVASCULAR SYSTEM
SEE ALSO PREGNANCY CIRCULATORY OISORDERS
SEE ALSD RESPIRATDRY CIRCULATDRY DISORDERS
R01HL-01755-25 Fetal and neonatal cardiovascular function (sheep)
** R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
R01HL-03341-22 Epidemiology of atherosclerosis in Evans Co Georgia
R01HL-04697-17 International heart disease epidemiology (human)
** R01HL-05694-20 Functional pathology of cardiovascular disease (human)
M P01HL-06285-18 Cardiovascular-respiratory physiology and biochemistry
M P01HL-06296-18 Cardiovascular and pulmonary adaptation to stress
M P01HL-06314-17 Immunologic mechanisms in cardiovascular disease
P01HL-06314-17 0057 Immunologic mechanisms in cardiovascular disease - Antigens in cardiovascular disease (human)
P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
** P01HL-06314-17 0061 Immunologic mechanisms in cardiovascular disease - Role of viruses in cardiovascular and renal disease (human, mice)
M P01HL-06835-17 Cardiovascular disease
M P01HL-08805-15 Regulation of ventilation and pulmonary circulation
P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Oirofilaria immitis in the dog
R01HL-10182-13 Circulatory function and electrolytic metabolism (dogs, human)
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
M P01HL-11310-12 Mechanisms of cardiovascular disease
** R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)
P01HL-11678-11 0017 Cardiovascular dynamics and their control - Overall control of circulation--Mathematical analyses
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
P01HL-12373-10 0020 Cardiopulmonary physiology and pathophysiology - Hospitalization and patient care
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
R01HL-13629-08 Hemorrhagic diseases (human)
M P01HL-14388-07 Regulation of the circulation in pathological states
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-14388-07 0190 Regulation of the circulation in pathological states - Mechanisms of the renal actions of aldosterone (rats)
R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
** R01HL-15191-07 Multiparameter methods for cardiovascular research
R01HL-15335-06 The nature of the collagen-platelet interaction (animals)
** R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
M P01HL-15835-06 Study of muscles related to heart disease
R01HL-15991-05 Evaluation of heart stimulants in sea anemones
P01HL-16117-05 0007 Ion movements and membranes in cardiovascular control - Physiological and molecular properties of ionophores (dogs, rabbits)
R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
R01HL-16325-03 Breathing patterns in man
** P01HL-16411-04 0002 Blood systems in coagulation and vessel disease - Early stages of coagulation and cardiovascular disease (human, rabbits)
P01HL-16411-04 0004 Blood systems in coagulation and vessel disease - Platelets reactions in vascular injury (human, animals)
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
R01HL-16582-05 Artificial lungs (dogs)
R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
R01HL-16637-04 Oevelopment and regression of cardiac hypertrophy (rats)
** R01HL-17408-03 Fresh blood rheology--Relation to cardiovascular risk (human)
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)
** R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
** R01HL-17591-03 Oevelopment of electromagnetic rheoangiography (human, dogs)
** R01HL-17721-04 Effect of sex hormones on vascular connective tissue (rats)
R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
R01HL-18019-04 The endocrine kidney in hypertension (mice)
** R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
** R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
** R01HL-20384-09 Social stimulation, RNA and cardiovascular disease (animals)
** R01HL-20535-02 Cardiovascular disease and evolving diabetes mellitus (human)
R01HL-20630-03 Oevelopment of a pulsed Doppler velocity detector (human, animals)
** R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
** R01HL-21145-02 Response of atria to hyperosmolality--Mechanisms (rabbits)
** R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)
** R01HL-22255-01 The etiology/prevalence of peripheral arterial disease (human)
R23HL-22621-01 Blood cell-mediated pulmonary (human)
** P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)
** R01HL-22740-01 Behavior and cardiovascular disease--Basic mechanisms (human)
R01HL-23194-02 Genetics of hypertension and associated variables (human)
** R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)
** N01HV-32931-09 Establishment of a lipid research clinic center
N01HV-53010-03 NAS-NRC twin registry

CARDIOVASCULAR DISORDERS, ANEURYSM

SEE ALSO CARDIOVASCULAR DISDRDERS, AORTIC ANEURYSM
SEE ALSD CARDIDVASCULAR OISORDERS, ARTERIOVENDUS SHUNTS ABNDRMAL
SEE ALSD CARDIOVASCULAR DISORDERS, VASODILATATION
SEE ALSD CEREBRDVASCULAR OISORDERS, CEREBRAL ANEURYSM
SEE ALSD HEART DISORDERS, ANEURYSMS
R01HL-09622-14 Pathogenesis of atherosclerosis (rats)
R01HL-14646-05 Pathophysiology of myocardial ischemia (dogs, rats)
R01HL-14651-05 Mechanical behavior of left ventricle (dogs, rats)
R01HL-21851-01 Cerebral microcirculation in experimental hypertension (cats, rabbits)
R01HL-22506-01 Hemodynamics of the clinical hypertensions

CARDIOVASCULAR DISORDERS, AORTA DISORDERS (GENERAL)

R01HL-11897-11 Pathogenesis of experimental atherosclerosis (rabbits, guinea pigs)
** R01HL-17909-04 Orug treatment of vascular scleroprotein defects (human, turkeys)
** R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)
R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
R01HL-19109-03 Regression of chronic atherosclerosis (rabbits)
** R01HL-20114-02 Collagen-platelet interaction and human aorta collagen (human)
** R01HL-20895-03 0009 Cineangiographic studies of cardiovascular system - Aortic changes in atheromatosis (rabbits)

CARDIOVASCULAR DISORDERS, AORTA OBSTRUCTIONS

R01HL-13426-09 Left ventricular bypass for myocardial infarction (cattle, human)
R01HL-22445-01 Platelet inhibitors--Effect on coronary bypass grafts (dogs)

CARDIOVASCULAR DISORDERS, AORTA OBSTRUCTIONS, AORTA COARCTATION

** R01HL-03181-21 0028 Hemodynamics as applied to surgical problems - Extra-renal factors in the hypertension of coarctation (dog)
R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
** P50HL-15062-07 0020 Study of lipoproteins, artery wall, and atherosclerosis - Artery wall reactions--Elevated pressure and hyperlipemia (monkey)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
R01HL-19425-03 Cardiac function in hypertrophy (dog)
** R01HL-19825-02 Renin-volume interactions in coarctation hypertension (dogs)
** R01HL-21071-02 Mechanisms of hypertension in coarctation of the aorta (dog)
R01HL-21438-02 Structure and permeability of arterial endothelium (pigs)
R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)
** R01HL-23600-01 Ions, water, and hypertension (human, dogs, rats)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)

CARDIOVASCULAR DISORDERS, AORTIC ANEURYSM

** R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
** R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)

CARDIOVASCULAR DISORDERS, ARTERIAL OCCLUSIONS

SEE ALSO CARDIDVASCULAR DISDRDERS, ADRTA OBSTRUCTIONS
SEE ALSD CARDIDVASCULAR DISDRDERS, ADRTIC ANEURYSM
SEE ALSD CARDIDVASCULAR DISDRDERS, ARTERIDSCLERDSIS
SEE ALSO CARDIOVASCULAR DISDRDERS, EMBDLISM
SEE ALSD CARDIOVASCULAR DISDRDERS, INFARCTIDN
SEE ALSO CARDIOVASCULAR DISORDERS, ISCHEMIA

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

SEE ALSO CARDIOVASCULAR DISORDERS, RAYNAUD'S DISEASE AND PHENOMENON
SEE ALSO CARDIOVASCULAR SURGERY, VASCULAR OCCLUSION THERAPEUTIC
SEE ALSO CEREBROVASCULAR DISORDERS, CEREBRAL OCCLUSIONS AND THROMBOSIS
SEE ALSO CEREBROVASCULAR DISORDERS, CEREBRARTERIAL OCCLUSIONS EXTRACRANIAL
SEE ALSO HEART DISORDERS, CORONARY OCCLUSIONS AND THROMBOSIS
SEE ALSO KIDNEY-CIRCULATORY DISORDERS, RENAL ARTERY OBSTRUCTION
SEE ALSO RESPIRATORY CIRCULATORY DISORDERS, PULMONARY CIRCULATORY OBSTRUCTIONS

R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
P01HL-06285-18 0147 Cardiovascular-respiratory physiology and biochemistry - Metabolic regulation of cerebral microcirculation (cats)
** P01HL-07293-17 0054 Non-invasive cardiovascular measurements - Detection of arterial occlusive disease (human)
P01HL-07293-17 0057 Non-invasive cardiovascular measurements - Peripheral vascular scanner engineering evaluation and error analysis (human)
P01HL-07293-17 0058 Non-invasive cardiovascular measurements - Peripheral duplex scanner physiologic evaluation
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
P50HL-15062-07 0020 Study of lipoproteins, artery wall, and atherosclerosis - Artery wall reactions--Elevated pressure and hyperlipemia (monkey)
P01HL-16910-05 0001 Regulation of the peripheral circulation - Quantitative studies of microcirculatory control (bats)
** R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
P01HL-17421-05 0004 Regulation and exchange in the microcirculation - Localization of flow regulation in the microcirculation (cats, human)
** P50HL-17648-04 0013 Study of ischemic heart disease - Fate of bypassed and bypassing vessels (dogs)
R01HL-18977-03 Non-invasive diagnosis of peripheral arterial disease (human, dogs)
** R01HL-19275-03 Characterization of collateral blood vessels (dogs)
R01HL-19406-03 Grading of atherosclerosis by CW doppler ultrasound (human, dogs)
R01HL-20337-02 Thromboembolic diseases (human)
R01HL-20381-03 Long-term study of diabetic vascular disease (human)
R01HL-20522-03 Peripheral arterial disease in the diabetic (human)
** R01HL-21034-01 Compensatory responses to arterial occlusion (dogs)
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)

CARDIOVASCULAR DISORDERS, ARTERIAL STENOSIS

** R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
R01HL-11289-12 Analysis of stress in pulsatile dynamics
** R01HL-11717-09 Effect of stenotic obstructions on flow in arteries (dogs)
P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
P60HL-17269-04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat)
R01HL-17517-03 Arterial wall oxygen transport in atherosclerosis (rabbits, dogs)
** P50HL-17669-04 0008 Ischemic heart disease center (SCOR) - Segmental ventricular dysfunction during stress-induced ischemia (dog, human)
P50HL-17682-04 0005 Study of ischemic heart disease - Regional myocardial perfusion deficits and segmental contraction disorders in man
R01HL-18156-02 Hemodynamics in curved arteries
R01HL-18468-03 The distribution of flow in the myocardium (dog, pig)
R01HL-18492-03 Measurement of regional coronary flow reserve (human, dogs)
R01HL-18805-04 0007 Sudden cardiac death and the onset of myocardial infarction - Analysis of pathologic factors involved in sudden death (human)
R01HL-18977-03 Non-invasive diagnosis of peripheral arterial disease (human, dogs)
** R01HL-19003-03 High precision densitometry of coronary angiograms
R01HL-19406-03 Grading of atherosclerosis by CW doppler ultrasound (human, dogs)
** R01HL-19675-02 Coronary pharmacoangiography
R01HL-19937-02 Vasodilators in experimental myocardial infarction (dogs)
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction
R01HL-21796-01 Applied pulsatile hemodynamics in vascular surgery (dogs)
R01HL-22893-01 Evaluating arterial disease by velocity wave analysis (dogs, human)
** R01HL-22952-01 Validation of quantitative coronary arteriography (dogs)

CARDIOVASCULAR DISORDERS, ARTERIOSCLEROSIS

M R01HL-01803-23 Arteriosclerosis, glomerulonephritis, rheumatic fever
** R01HL-01979-22 Arteriosclerosis in zoo animals on controlled diets (animals)
M P01HL-06835-17 Cardiovascular disease
R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Dirofilaria immitis in the dog
R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
P01HL-11310-12 0106 Mechanisms of cardiovascular disease - Biochemical characterization of the collagens in vascular tissue (cattle)
** R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
** P01HL-13262-07 0024 Arterial wall in atherosclerosis - Serial ocular changes in arteriosclerosis and hypertension
** R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
P01HL-13737-07 0038 Assisted circulation - Distinguishing the ischemic ventricle from scarred ventricle by balloon pumping
M P50HL-14164-07 A/S SCOR--Comparative and experimental atherosclerosis
** P50HL-14164-07 0044 A/S SCOR--Comparative and experimental atherosclerosis - Cell biology-atherosclerosis project (pigeons)
M P50HL-14236-05 Prevention of premature arteriosclerosis
M P50HL-14237-07 Support for arteriosclerosis center
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
R01HL-15979-05 Elastase, serum inhibitors and the vasculature (human, swine)
** P01HL-16387-04 0009 The blood vessel and thrombogenesis - Role of pituitary gland in the pathogenesis of arteriosclerotic lesions (rats)
R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
** R01HL-16904-03 Regulation of smooth muscle cells in arteriosclerosis (rabbit aorta)
R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
P50HL-17665-04 0028 Study of ischemic heart disease - Pathologic and biochemical studies of ischemic myocardium (human, dog)
P50HL-17669-04 0013 Ischemic heart disease center (SCOR) - Exercise in patients with ischemic heart disease
R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
** R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
** R01HL-19073-02 Heart disease and drinking water at home
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
** R01HL-19381-03 Pathogenesis of viral induced atherosclerosis (human, chicken)
** R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-20179-02 Epidemiology of sudden cardiac death among women
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
** R01HL-21418-02 Experimental myocardial infarction (rats)
R01HL-22208-02 Elastin structure, fibrogenesis and disease (chickens, rabbits)
R01HL-22570-01 Interactions of sterols in biological systems (human)
** R01HL-22604-01 Non-invasive system for arteriosclerosis studies (human)
** P01HL-22619-01 0012 Cellular mechanisms of heart failure - Apolipoproteins in hypertriglyceridemia (human)

CARDIOVASCULAR DISORDERS, ARTERIOSCLEROSIS, ATHEROSCLEROSIS

N01HI-32926-10 Analysis of lipoproteins (animals)
R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
** R01HL-01803-23 0005 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic and dietary synergy in the pathogenesis of atherosclerosis (rabbits)
** R01HL-01803-23 0010 Arteriosclerosis, glomerulonephritis, rheumatic fever - Atherosclerosis induction--Graft rejection and hypercholesterolemia (rabbits)
** R01HL-01803-23 0011 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
** R01HL-01803-23 0014 Arteriosclerosis, glomerulonephritis, rheumatic fever - Regenerated endothelium on lipid accumulation in arterial wall (rabbit)
** R01HL-01803-23 0015 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic endothelial injury and lipid diet atherosclerosis (rabbits, monkey)
** R01HL-01803-23 0020 Arteriosclerosis, glomerulonephritis, rheumatic fever - Virus-induced arteriosclerosis (chickens)
R01HL-01803-23 0021 Arteriosclerosis, glomerulonephritis, rheumatic fever - Induction of IgE antibodies to antigen from tobacco and cigarette smoke (rabbits)
R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
M P01HL-03174-23 Mechanisms of acute vascular reaction to injury
** P01HL-03174-23 0001 Mechanisms of acute vascular reaction to injury - Response of the vascular intima to injury (human, rats)
** P01HL-03174-23 0006 Mechanisms of acute vascular reaction to injury - Atherosclerotic plaque studies using mosaic analysis (human)
** P01HL-03174-23 0010 Mechanisms of acute vascular reaction to injury - Search for mutagens in the human blood (bacteria, animals)
** P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury - Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)
** P01HL-03174-23 0012 Mechanisms of acute vascular reaction to injury - Human atherosclerotic plaque in organ culture
** P01HL-03174-23 0013 Mechanisms of acute vascular reaction to injury - Surface morphology of the aorta in normal and injured states (rats, rabbits)
** R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
** R01HL-03341-22 Epidemiology of atherosclerosis in Evans Co Georgia
R01HL-03429-18 Central nervous system and coronary heart disease (human)
** R01HL-03734-18 Metabolism of arterial tissue in atherosclerosis (rabbits)
P01HL-04664-18 0007 Cardiovascular and lung dynamics - Development and application of ultrasound imaging techniques
R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
** R01HL-05209-18 Lipid metabolism (monkeys)
P01HL-06285-18 0205 Cardiovascular-respiratory physiology and biochemistry - Assimilation of cholesterol in chylomicrons and VLDL (rabbits)
P01HL-06308-18 0038 Mechanisms and therapy of circulatory disease - Electrophysiology of ventricualr arrhythmias associated with ischemia (dogs)
** P01HL-06312-17 0021 Surgical cardiology - Cardiac transplantation--Effect of immunosuppression on atherogenesis (monkeys)
** P01HL-06312-17 0023 Surgical cardiology - Effect of denervation on atherosclerosis
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
** P01HL-06835-17 0014 Cardiovascular disease - Dietary induction of severe atherosclerosis and its prevention (dogs)
** P01HL-06835-17 0015 Cardiovascular disease - Plasma cholesterol esterification in canine atherosclerosis
** P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)
** P01HL-06835-17 0017 Cardiovascular disease - Studies on obese hypertensive rats
P01HL-06835-17 0020 Cardiovascular disease - Lipid metabolism (rats)
** P01HL-06835-17 0021 Cardiovascular disease - Animal study in atherosclerosis (dog, guinea pig)
P01HL-06835-17 0026 Cardiovascular disease - Lipoproteins (human, guinea pig)
** P01HL-06835-17 0027 Cardiovascular disease - Studies in thrombosis-cross-linking of fibrinogen (human)
** P01HL-06835-17 0062 Cardiovascular disease - Role of collagen in atherosclerosis (dogs, pigeons)
** P01HL-06835-17 0063 Cardiovascular disease - Studies on prostaglandins (human, rabbits)
** P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
** P01HL-07293-17 0054 Non-invasive cardiovascular measurements - Detection of arterial occlusive disease (human)
** R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
** R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
M P01HL-08974-14 Natural and experimental atherosclerosis
** P01HL-08974-14 0005 Natural and experimental atherosclerosis - Atherosclerosis, coronary heart disease and sudden death (human)
** P01HL-08974-14 0024 Natural and experimental atherosclerosis - Atherosclerosis, sterol and lipoprotein metabolism in nonhuman primates

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**Oriented significantly to above subject.

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** P01HL-08974-14 0028 Natural and experimental atherosclerosis Geographic pathology of atherosclerosis and coronary heart disease (human)
** P01HL-08974-14 9001 Natural and experimental atherosclerosis - Core--Lipid chemistry laboratory
** P01HL-08974-14 9002 Natural and experimental atherosclerosis - Core--Histology and histochemistry laboratory
** R01HL-09622-14 Pathogenesis of atherosclerosis (rats)
** R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
** R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
** R01HL-10160-13 Origins of atherosclerosis (human)
** R01HL-10933-13 Fat metabolism and atherosclerosis (rabbits, cattle, human, rats)
R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
** R01HL-11289-12 Analysis of stress in pulsatile dynamics
P01HL-11310-12 0101 Mechanisms of cardiovascular disease - Molecular pathogenesis of vascular disease
M P01HL-11414-11 Thrombosis and atherosclerosis program
** P01HL-11414-11 0037 Thrombosis and atherosclerosis program - Vascular intimal injury and healing (rabbits, rats)
R01HL-11717-09 Effect of stenotic obstructions on flow in arteries (dogs)
** R01HL-11775-11 Platelet mechanisms in disease (human, primates)
R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
** R01HL-11897-11 Pathogenesis of experimental atherosclerosis (rabbits, guinea pigs)
M R01HL-11901-12 Effects of metabolic surgery on the hyperlipidemias
R01HL-11901-12 0001 Effects of metabolic surgery on the hyperlipidemias - Partial ileal bypass (human)
** R01HL-11901-12 0012 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Animal atherosclerosis implications (pigeons, dogs, rabbits)
R01HL-11901-12 0013 Effects of metabolic surgery on the hyperlipidemias - Human cholesterol and bile acids dynamics--Ileal bypass
** R01HL-12083-11 Flow field in aorta and its major branches (dogs, phantom models)
R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
P01HL-13108-09 0003 Clinical heart transplantation - Endomyocardial biopsy pathology
P01HL-13108-09 0011 Clinical heart transplantation - Humoral and cellular kinetics of allograft rejection (human)
** P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
M P01HL-13262-07 Arterial wall in atherosclerosis
** P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)
** P01HL-13262-07 0012 Arterial wall in atherosclerosis - Characterization of connective tissue components (animals)
** P01HL-13262-07 0015 Arterial wall in atherosclerosis - Crosslinkage biosynthesis in aortic elastin and collagen (animals)
** P01HL-13262-07 0016 Arterial wall in atherosclerosis - Lipids in elastin preparations from atherosclerotic plaques (human, animals)
** P01HL-13262-07 0018 Arterial wall in atherosclerosis - Vasoactive factors of human plasma
P01HL-13262-07 0022 Arterial wall in atherosclerosis - Mechanisms of platelet prostaglanoin formation
P01HL-13262-07 0023 Arterial wall in atherosclerosis - Isolation and characterization of soluble elastin
P01HL-13262-07 0024 Arterial wall in atherosclerosis - Serial ocular changes in arteriosclerosis and hypertension
R01HL-13408-05 Environmental-genetic interactions in hypertension (rats)
R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
** R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
** R01HL-14111-07 Cholesteryl esters in membranes and atherosclerosis (human, swine)
R01HL-14126-17 Effect of function on grafts and implants of collagen (dogs, monkeys)
M P50HL-14138-05 Center for research on atherosclerosis
** P50HL-14138-05 0008 Center for research on atherosclerosis - Core lipid laboratory (human)
** P50HL-14138-05 0009 Center for research on atherosclerosis - Core angiographic-diagnostic laboratory (human, dogs, birds)
** P50HL-14138-05 0010 Center for research on atherosclerosis - Diet and exercise as therapy in men with premature atherosclerosis
** P50HL-14138-05 0014 Center for research on atherosclerosis - Core biostatistics laboratory
** P50HL-14138-05 0015 Center for research on atherosclerosis - Arterial wall--Intermediary metabolism, enzyme activity and bioenergetics
** P50HL-14138-05 0016 Center for research on atherosclerosis - Computer analysis of angiograms
M P50HL-14141-05 SCOR for atherosclerosis in childhood
** P50HL-14141-05 0001 SCOR for atherosclerosis in childhood - Clinical implications (infants and children)
** P50HL-14141-05 0002 SCOR for atherosclerosis in childhood - Intrauterine environment of proband group (human)
** P50HL-14141-05 0003 SCOR for atherosclerosis in childhood - Detection of abnormalities in lipid metabolism (human, rabbits, rats)
P50HL-14141-05 0007 SCOR for atherosclerosis in childhood - Relation of lipid valves to sexual maturation at puberty (human)
** P50HL-14147-08 0012 Specialized center of research in thrombosis - Tissue culture study of arterial cells (human, hamster)
** R01HL-14148-07 0009 The regional circulations - Myocardial circulation in hypertension and atherosclerosis (human)
** P50HL-14164-07 0025 A/S SCOR--Comparative and experimental atherosclerosis - Animal care resource and laboratory animal medicine unit (monkeys, pigeons)
** P50HL-14164-07 0026 A/S SCOR--Comparative and experimental atherosclerosis - Comparative pathology unit (pigeons, monkeys)
** P50HL-14164-07 0027 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (squirrel monkey)
** P50HL-14164-07 0028 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (African green monkey)
** P50HL-14164-07 0029 A/S SCOR--Comparative and experimental atherosclerosis - Development of pigeon substrains
** P50HL-14164-07 0030 A/S SCOR--Comparative and experimental atherosclerosis - Morphology, angiochemistry--Diet induced lesions in African green monkey
** P50HL-14164-07 0031 A/S SCOR--Comparative and experimental atherosclerosis - Changes in endothelial permeability associated with atherosclerosis (pigeon)
** P50HL-14164-07 0032 A/S SCOR--Comparative and experimental atherosclerosis - Plasma cholesterol, lesion regression and vascular function (Rhesus monkey)
** P50HL-14164-07 0033 A/S SCOR--Comparative and experimental atherosclerosis - Comparative studies of lipoprotein distribution and metabolism (monkeys)
** P50HL-14164-07 0034 A/S SCOR--Comparative and experimental atherosclerosis - Core lipid analytic laboratory
** P50HL-14164-07 0035 A/S SCOR--Comparative and experimental atherosclerosis - Lipid metabolism--Interaction with arterial metabolism (monkey, pigeon)
** P50HL-14164-07 0036 A/S SCOR--Comparative and experimental atherosclerosis - Connective tissue metabolism--Interaction with arterial metabolism (monkeys)
P50HL-14164-07 0037 A/S SCOR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
** P50HL-14164-07 0038 A/S SCOR--Comparative and experimental atherosclerosis - Peripheral vascular studies--Cholesterol, lesion regression, vascular function
** P50HL-14164-07 0041 A/S SCOR--Comparative and experimental atherosclerosis - Nonhuman primate pediatric atherosclerosis risk factor
P50HL-14192-08 0002 Specialized center of research in hypertension - Hypertensive patients with renal artery stenosis
M P50HL-14197-07 Support for center of research on arteriosclerosis
P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
P50HL-14197-07 0008 Support for center of research on arteriosclerosis - Core facility--Lipoprotein preparation, immunochemistry
M P50HL-14230-07 A/S SCOR--Lipids, atherosclerosis and thrombosis
P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
** P50HL-14230-07 0094 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of atherosclerosis and regression (monkeys)
** P50HL-14230-07 0099 A/S SCOR--Lipids, atherosclerosis and thrombosis - Morphological, cytochemical study of normal and altered vasculature (mice)
P50HL-14236-05 0001 Prevention of premature arteriosclerosis - Metabolism and transport of cholesterol and vitamin A (human, rats)
** P50HL-14236-05 0002 Prevention of premature arteriosclerosis - Myocardial blood flow in patients with coronary artherosclerosis
P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
P50HL-14237-07 0005 Support for arteriosclerosis center - Genetic determinants of apolipoprotein variability in lipoproteins (human)
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
** P01HL-14388-07 0165 Regulation of the circulation in pathological states - Vascular resistance in experimental atherosclorosis in Rhesus monkeys
P01HL-14388-07 0166 Regulation of the circulation in pathological states - Elastic changes in abdominal aorta with atherosclerosis (Rhesus monkeys)
** P01HL-14388-07 0233 Regulation of the circulation in pathological states - Pressure-flow relationships after regression of experimental atherosclerosis
R01HL-14785-07 Ultrasonic scattering for tissue characterization (dogs, cattle, human)
** R01HL-14826-05 External isotope assay of atherosclerosis (rats, rabbits)
M P50HL-15062-07 Study of lipoproteins, artery wall, and atherosclerosis
P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
P50HL-15062-07 0012 Study of lipoproteins, artery wall, and atherosclerosis - Lipoprotein stimulation of arterial smooth muscle cell proliferation (mammals)
P50HL-15062-07 0013 Study of lipoproteins, artery wall, and atherosclerosis - Radioimmunoassay of apolipoproteins (human, monkeys)
** P50HL-15062-07 0018 Study of lipoproteins, artery wall, and atherosclerosis - Reversal of atherosclerosis in monkeys
P50HL-15062-07 0019 Study of lipoproteins, artery wall, and atherosclerosis - Factors regulating lipoprotein-smooth muscle cell interaction (monkey)
** P50HL-15062-07 0020 Study of lipoproteins, artery wall, and atherosclerosis - Artery wall reactions--Elevated pressure and hyperlipemia (monkey)
** P50HL-15062-07 0021 Study of lipoproteins, artery wall, and atherosclerosis - Core laboratories
M P50HL-15103-07 A/S SCOR--Early natural history of arteriosclerosis
** P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
** P50HL-15103-07 0013 A/S SCOR--Early natural history of arteriosclerosis - Experimental models of atherosclerosis (monkeys)
** P50HL-15103-07 0014 A/S SCOR--Early natural history of arteriosclerosis - Biochemistry of atherosclerotic lesions (monkeys, human, cattle)
** R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
M P01HL-15265-05 Program on surgical control of the hyperlipidemias
** P01HL-15265-05 0003 Program on surgical control of the hyperlipidemias - Central lipid laboratory
** P01HL-15265-05 0011 Program on surgical control of the hyperlipidemias - Central electrocardiography laboratory (human)
** P01HL-15265-05 0012 Program on surgical control of the hyperlipidemias - Central arteriography--Radiography laboratory (human)
** P01HL-15265-05 0013 Program on surgical control of the hyperlipidemias - Clinical center - Minnesota
** P01HL-15265-05 0014 Program on surgical control of the hyperlipidemias - Arkansas clinical center
** R01HL-15270-06 Local mechanical properties of the aortic tissue (dogs, pigs)
** R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
** R01HL-15478-05 Lipid flux and collagen synthesis in atherosclerosis (rabbits)
** R01HL-15504-05 Animal model for studies on averting atherosclerosis (swine)
** R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)
** R01HL-15646-03 Lipid studies in vascular smooth muscle cells (human, monkeys)
R01HL-15648-06 Lipid metabolism--Transport by lateral diffusion (human, rabbit, cattle)
** R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
R01HL-15696-06 Mechanism and role of cyclic GMP in heart (animals)
** R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
P01HL-15835-06 0019 Study of muscles related to heart disease - Vascular smooth muscle--Electron microscopy, excitation contraction (animal)
P01HL-15835-06 0025 Study of muscles related to heart disease - Cellular biology of vascular smooth muscle (guinea pig)
** R01HL-15949-05 Lipoprotein metabolism in relation to atherosclerosis (human, baboons)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-15965-06 Experimental atherosclerosis and elastin metabolism (chicks)
** R01HL-16206-04 Regression of atherosclerotic plaques (monkeys, dogs)
** R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
R01HL-16328-06 Membrane electrical properties of vascular muscle (human, animals)
M P01HL-16387-04 The blood vessel and thrombogenesis
** P01HL-16387-04 0002 The blood vessel and thrombogenesis - Hormonal effects on thrombogenesis (rats, rabbits)
** P01HL-16387-04 0003 The blood vessel and thrombogenesis - Blood vessel healing (rabbits)
** P01HL-16387-04 0008 The blood vessel and thrombogenesis - Factor VIII in hemostasis (human, rabbits)
** R01HL-16419-03 Arterial uptake of lipoprotein--Kinetic analysis (rabbits)
** R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)
** R01HL-16587-04 Cholesterol binding saponins and atherosclerosis (monkeys)
** R01HL-16588-05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions
R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
M P60HL-17269-04 National heart and blood vessel research and demonstration center
** P60HL-17269-04 0001 National heart and blood vessel research and demonstration center - Atherosclerosis--Arterial pathology and plasma lipids (human)
** P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
** P60HL-17269-04 0004 National heart and blood vessel research and demonstration center - Atherosclerosis--Clinical surgical aspects (human)
P60HL-17269-04 0011 National heart and blood vessel research and demonstration center - Lipoprotein structure laboratory (human)
** P60HL-17269-04 0014 National heart and blood vessel research and demonstration center - Physio-chemical nature of lipid deposits in arterial wall (human)
P60HL-17269-04 0016 National heart and blood vessel research and demonstration center - New analytical methodology for atherosclerosis studies
P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
** P60HL-17269-04 0048 National heart and blood vessel research and demonstration center - Atherosclerosis--Lipoproteins and the arterial wall (human)
R01HL-17369-04 Arterial bypass surgery--Structure and metabolism (monkeys)
R01HL-17371-05 Regualtion of cholesteryl ester levels in the aorta (swine)
** R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
** R01HL-17517-03 Arterial wall oxygen transport in atherosclerosis (rabbits, dogs)
R01HL-17576-04 Role of sphingomyelin in biomembranes and bilayers (rats, other mammals)
** R01HL-17597-05 Role of plasma lipoproteins in atherosclerosis (swine, human)
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
P50HL-17648-04 0006 Study of ischemic heart disease - Ventricular performance and myocardial perfusion in obstructive coronary disease
P50HL-17648-04 0020 Study of ischemic heart disease - Core pathology laboratory--Ischemic heart disease (human, animal)
** P50HL-17648-04 0021 Study of ischemic heart disease - Biventricular contractile responses to acute myocardial infarction (mammals)
P50HL-17655-04 0010 Study of ischemic heart disease - Core facility--Cardiovascular pathology (human, animal)
P50HL-17667-04 0019 Study of ischemic heart disease - Assessment of long-term results of coronary artery bypass grafting (human)
P50HL-17682-04 0005 Study of ischemic heart disease - Regional myocardial perfusion deficits and segmental contraction disorders in man
** P50HL-17682-04 0013 Study of ischemic heart disease - Chronic ischemic heart disease--Myocardial function and metabolism (dogs, swine)
** R01HL-17721-04 Effect of sex hormones on vascular connective tissue (rats)
R01HL-17747-04 Endothelial injury and regeneration (rats)
** R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
R01HL-17826-04 Oxygen delivery to tissue (rat, dog)
** R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)

** R01HL-18004-02 Transport through arterial wall Biophysical aspects (rabbits)
** R01HL-18060-04 Exercise and coronary atherosclerotic heart disease (monkeys)
** R01HL-18085-03 Neural factors in atherogenesis (squirrel monkeys)
** R01HL-18152-03 Vascular injury and atherosclerosis (mice, coxsackievirus)
** R01HL-18156-02 Hemodynamics in curved arteries
** R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
P50HL-18318-03 0002 Pathogenesis and complications of hypertension - Core experimental animal facility (rats, rabbits)
** P50HL-18318-03 0014 Pathogenesis and complications of hypertension Arterial metabolism and atherogenesis (rat, rabbit)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
** R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
** R01HL-18516-03 Atherosclerosis and the arterial contractile proteins (pigs, rabbits)
R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)
M P01HL-18574-03 Lipoprotein methodology and biomedical applications
P01HL-18574-03 0001 Lipoprotein methodology and biomedical applications - Ultracentrifugal and electrophoretic lipoprotein methodology--Applications
** P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
P01HL-18574-03 0005 Lipoprotein methodology and biomedical applications - Structure and function of lipoproteins
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
M P01HL-18577-03 Lipoproteins--Cell surface interactions
** P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
** P01HL-18577-03 0004 Lipoproteins--Cell surface interactions - Analysis and chemical modification of proteins in lipid transport (human, dogs)
R01HL-18589-03 Psychosocial factors and outcome in coronary disease (human)
** R01HL-18610-03 Early intervention of age related arterial changes (pigeon)
** R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
R01HL-18625-03 Organization of arterial ground substance (cattle)
R01HL-18636-02 Fatty acids and cholesterol transport (rats)
M P01HL-18645-03 Biology of the artery wall and atherosclerosis
** P01HL-18645-03 0001 Biology of the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
** P01HL-18645-03 0003 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
** P01HL-18645-03 0004 Biology of the artery wall and atherosclerosis - Human arterial smooth muscle cell and lipoprotein interaction
** P01HL-18645-03 0005 Biology of the artery wall and atherosclerosis - Effects of atherosclerosis risk factors on endothelium of the primate
** P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
** P01HL-18645-03 0007 Biology of the artery wall and atherosclerosis - Lipoprotein metabolism in subhuman primates
R01HL-18650-03 Platelet collagen interaction (human)
** R01HL-18682-03 Protein kinase and cholesterol metabolism in aorta (rabbits)
** R01HL-18692-03 Glycosaminoglycans and lipoproteins of human plasma
** R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)
** R01HL-18736-03 Protein transport through arterial tissue (rabbits)
R01HL-18793-03 Clinical-pathologic studies of sudden cardiac death (human)
R01HL-18815-03 Surgical vascular disorders (human, dogs)
M P01HL-18827-02 Platelet vessel wall interactions in thrombogenesis
** P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
** P01HL-18827-02 0005 Platelet vessel wall interactions in thrombogenesis - Platelet vessel wall interactions in thrombogenesis (human)
P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man

P50HL-18828-03 0005 Specialized center of research in thrombosis Platelet inflammatory factors in thrombosis (human, guinea pig)
** P50HL-18828-03 0006 Specialized center of research in thrombosis Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)
** R01HL-18969-02 Arterial wall oxygenation (rabbits, dogs)
R01HL-18977-03 Non-invasive diagnosis of peripheral arterial disease (human, dogs)
** R01HL-19001-03 Atherosclerosis in bleeder and drug treated subjects (pigs)
R01HL-19087-01 Hypoxia-induced relaxation of vascular smooth muscle
** R01HL-19091-02 Sustained increase in cardiac output (dogs)
** R01HL-19109-03 Regression of chronic atherosclerosis (rabbits)
** R01HL-19112-03 Atherosclerosis studies (monkeys)
M P01HL-19242-02 Study of vascular smooth muscle
P01HL-19242-02 0001 Study of vascular smooth muscle - Energy metabolism and protein turnover in vascular smooth muscle (rats)
** P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
** P01HL-19242-02 0009 Study of vascular smooth muscle - Electrophysiology of vascular smooth muscle (rats, chick embryo)
** R01HL-19252-02 Vascular connective tissue--Role in atherosclerosis (rabbits)
R01HL-19275-03 Characterization of collateral blood vessels (dogs)
** R01HL-19341-03 Ultrasonic detection of the atherosclerotic plaque
M P50HL-19362-02 A/S SCOR--Atherosclerosis in nonhuman primates
** P50HL-19362-02 0001 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of infant nutrition on atherosclerosis (baboons)
** P50HL-19362-02 0002 A/S SCOR--Atherosclerosis in nonhuman primates - Infant caloric intake, adipose tissue development and atherosclerosis (baboon)
** P50HL-19362-02 0003 A/S SCOR--Atherosclerosis in nonhuman primates - Heritability of characters related to atherosclerosis (baboons)
** P50HL-19362-02 0004 A/S SCOR--Atherosclerosis in nonhuman primates - Selective breeding for characters related to atherosclerosis (baboons)
** P50HL-19362-02 0005 A/S SCOR--Atherosclerosis in nonhuman primates - Hybridization to produce primate model of atherosclerosis (baboon, Rhesus)
** P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of cigarette smoking on atherosclerosis (baboon)
** P50HL-19362-02 0007 A/S SCOR--Atherosclerosis in nonhuman primates - Behavior type, cigarette smoking and atherosclerosis (baboon)
** P50HL-19362-02 0010 A/S SCOR--Atherosclerosis in nonhuman primates - Antihypertensive therapy--Atherogenesis in experimental hypertension (baboon)
** P50HL-19362-02 0011 A/S SCOR--Atherosclerosis in nonhuman primates - Chronic hypertension induced by operant conditioning techniques (baboon)
P50HL-19362-02 0012 A/S SCOR--Atherosclerosis in nonhuman primates - Induction of chronic hypertension by salt loading (baboon)
** P50HL-19362-02 0013 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Lipid biochemistry (baboons)
** P50HL-19362-02 0014 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Behavior observation and manipulation (baboon)
** P50HL-19362-02 0015 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Pathology and morphometry (baboons)
** P50HL-19362-02 0016 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Animal services (baboon)
P50HL-19362-02 0017 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Data management, statistical analysis
** R01HL-19399-02 Atherosclerosis--Early events and regression factors (rats)
** R01HL-19406-03 Grading of atherosclerosis by CW doppler ultrasound (human, dogs)
M R01HL-19451-03 Functional characteristics of the left heart
** R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
** R01HL-19454-02 Rheological factors in transport across arterial wall (dogs)
** R01HL-19459-03 Dynamics of atherogenesis and lipoprotein formation (human, rabbit)
** R01HL-19767-01 Pathochemistry of fibrinogen (humans)
** R01HL-19820-02 The chemistry and biological effects of heparin (Rhesus, human, other mammals)
** R01HL-19830-02 Shear to aortic histamine synthesis and permeability (dogs)
** R01HL-19936-02 Unsaturated fatty acid biosynthesis in the aorta (rats)

(contd)

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See Appendix for investigator's name and grant number.

R01HL-20114-02 Collagen-platelet interaction and human aorta collagen (human)
R01HL-20183-02 Portacaval shunt as treatment for hyperlipemia (pigs)
** R01HL-20189-01 Effects of renin on atherogenesis (rabbits)
R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)
R01HL-20218-02 Fibrinogen catabolism and intravascular coagulation (human)
R01HL-20350-02 Crystal structure of lipids--Cholesterol
R01HL-20381-03 Long-term study of diabetic vascular disease (human)
R01HL-20397-03 VLOL-TG metabolism in diabetes mellitis (human, rat)
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)
** R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
** R01HL-20428-03 The juvenile diabetic heart (human)
R01HL-20447-03 Connective tissue and diabetic vascular disease (human)
** R01HL-20460-03 Aortic histamine synthesis in diabetes (rat)
** R01HL-20471-03 Atherosclerosis and diabetes mellitus (human)
R01HL-20483-03 Sterol balance and cholesterol absorption in diabetics (human)
** R01HL-20488-03 Cholesterol metabolism in diabetic man
** R01HL-20508-03 Oiabetes, hyperglycemia and cardiovascular disease (human)
** R01HL-20517-03 Oiabetes, somatotropin, factor VIII and atherosclerosis (human, animal)
** R01HL-20522-03 Peripheral arterial disease in the diabetic (human)
R01HL-20539-03 Blood glucose, hemoglobin A1c, and diabetic vascular disease (human)
** R01HL-20564-02 Pathogenesis of peripheral arterial disease (rats, rabbits)
R01HL-20597-02 Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits)
R01HL-20630-03 Oevelopment of a pulsed Ooppler velocity detector (human, animals)
R01HL-20662-02 Physical activity, fitness and epidemiology of CHO
R01HL-20764-02 Elastin and calcification in pulmonary and vascular disease (human, mammals)
R01HL-20829-02 Fluid mechanics of heart valve prostheses (dogs, human)
** R01HL-20895-03 0009 Cineangiographic studies of cardiovascular system - Aortic changes in atheromatosis (rabbits)
R01HL-20898-02 Ultrasonic evaluation in direct arterial surgery (models, cattle, human)
** R01HL-20924-02 Atherosclerosis and arterial cell functions (human, rabbits)
M P01HL-20948-02 Molecular basis of cholesterol metabolism
** P01HL-20948-02 0001 Molecular basis of cholesterol metabolism - Biochemical and ultrastructural characterization of LOL in human fibroblasts
** P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LOL pathway in cell lines with informative properties other than fibroblasts
** P01HL-20948-02 0004 Molecular basis of cholesterol metabolism - Genetic analysis of the LOL pathway (human)
M P01HL-20993-02 Population dynamics of arterial cells in atherogenesis
** P01HL-20993-02 0001 Population dynamics of arterial cells in atherogenesis - Arterial SMC population dynamics in atherogenesis (swine)
** P01HL-20993-02 0002 Population dynamics of arterial cells in atherogenesis - Arterial endothelial dynamics in atherogenesis (swine)
** P01HL-20993-02 0003 Population dynamics of arterial cells in atherogenesis - Clonal phenomena in atherogenesis (human, hares)
** P01HL-20993-02 0004 Population dynamics of arterial cells in atherogenesis - Modifications of cholesterol balance related to arterial cell divisions (swine)
** P01HL-20993-02 0005 Population dynamics of arterial cells in atherogenesis - Orugs other than hypolipidemic drugs affecting atherosclerosis (swine, rabbits)
** P01HL-20993-02 0006 Population dynamics of arterial cells in atherogenesis - Mechanism of regression of atherosclerosis by diet and injury (swine)
** P01HL-20993-02 0007 Population dynamics of arterial cells in atherogenesis - Interaction of lipoproteins in hypercholesteremia (human, swine)
** P01HL-20993-02 0008 Population dynamics of arterial cells in atherogenesis - Angiotoxicity of cholesterol oxidation in atherogenesis (rabbits)
** P01HL-20993-02 0009 Population dynamics of arterial cells in atherogenesis - Mathematical biology--Core
** P01HL-20993-02 0010 Population dynamics of arterial cells in atherogenesis - Animal care and development and standardization of animal models--Core
** P01HL-20993-02 0011 Population dynamics of arterial cells in atherogenesis - Light and electron microscopy laboratories--Core
M P50HL-21006-02 Specialized center of research in arteriosclerosis
** P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
P50HL-21006-02 0002 Specialized center of research in arteriosclerosis - Turnover and metabolism of cholesterol in man
P50HL-21006-02 0004 Specialized center of research in arteriosclerosis - Regulation of growth of human arterial smooth muscle cells by platelets
P50HL-21006-02 0005 Specialized center of research in arteriosclerosis - Regional myocardial perfusion in patient with coronary artery disease (also dogs)
** R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
** R01HL-21032-02 Injury, wall thickness, and arterial wall oxygenation (dogs, rabbits)
** R01HL-21088-02 Genetic patterns in deaths from MI and stroke in Utah
R01HL-21188-02 Pulsatory water flux and endothelial cell desquamation
R01HL-21217-01 Ion and 5-hydroxytryptamine transport by platelets
** R01HL-21260-02 Risk factor relationships of atherosclerosis (monkeys)
** R01HL-21270-01 Correlation of arterial hemodynamics and morphology (human)
** R23HL-21279-02 Angiographic estimation of atherosclerotic wall thickness
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
** R01HL-21303-02 Collagen synthesis by cultured human vascular cells
R23HL-21320-02 Cyclic nucleotide metabolism in vascular endothelium
** R01HL-21416-02 Atherosclerosis in new modles of diabetes mellitus
** R01HL-21429-02 Transport of LOL in arterial wall (human, mammals)
R01HL-21438-02 Structure and permeability of arterial endothelium (pigs)
** R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
** R01HL-21513-02 Metabolism of trans fatty acids (human, rats, swine)
R01HL-21533-02 Platelet inhibitor drug in coronary surgery (human)
** R23HL-21559-01 Oxygen supply and blood flow through aortic vasa vasorum (dogs)
** R01HL-21592-01 Lipoproteins and coagulation factors in atherosclerosis (pigeons)
** R01HL-21665-01 Collagen polymorphism and arterial structure (monkeys, guinea pigs)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)
** R01HL-21912-01 Biosynthesis of lipoic acid and atherosclerosis (birds, chick embryos)
** R01HL-21971-01 Atherosclerotic disease and risk factors in twins (human)
** R01HL-22040-01 Regulation of lysyl-cross-linking in vascular tissue (rats, turkeys)
** R01HL-22115-02 Lipid-mobilization and diabetic atherosclerosis (human)
** R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)
** R01HL-22341-01 Pathogenesis of atherosclerosis in rats
** R01HL-22474-01 Cholesterol metabolism and atherosclerosis (rats, human, rabbits)
** R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
M P01HL-22602-01 Pathophysiology of the endothelium
** P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
** P01HL-22602-01 0002 Pathophysiology of the endothelium - Molecular charge and endothelial permeability (rats, mice)
** P01HL-22602-01 0004 Pathophysiology of the endothelium - Endothelium, platelets smooth muscle and atherosclerosis (rabbits)
R23HL-22621-01 Blood cell-mediated pulmonary (human)
** R01HL-22623-01 Polyamines cellular mediators of atherogenesis (human)
M P01HL-22633-01 Cellular and molecular biology of lipoprotein metabolism
** P01HL-22633-01 0001 Cellular and molecular biology of lipoprotein metabolism - Secretion of lipoproteins by the perfused liver (rats, rabbits)
** P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
** R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
** R01HL-22682-01 Structure and function of high density lipoprotein (human, rat)
** R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
R01HL-22741-01 Arteriovenous connections in extremity revascularization (dogs)
** R01HL-22783-01 Hemodynamic induction of intimal fibromuscular lesion
R01HL-22847-01 Test for adherence to diets rich in linoleic acid
** R01HL-22893-01 Evaluating arterial disease by velocity-wave analysis (dogs, human)
R01HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)
** R01HL-23003-01 Bulk-surface distribution of cholesteryl esters
** R01HL-23599-01 Mechanisms of ischemic rhythm disorders (dogs)
** N01HV-12156-10 Lipid research clinic
N01HV-12157-14 Lipid research clinic (human)
** N01HV-12158-10 Establishment of a lipid research clinic
** N01HV-12159-09 Lipid research clinic
** N01HV-12160-15 Establishment of a lipid research clinic
** N01HV-22913-09 Lipid research clinic
** N01HV-22914-08 Establishment of a lipid research clinic
N01HV-22915-11 Establishment of lipid research clinic
N01HV-22916-16 Establishment of a lipid research clinic
N01HV-22917-11 Lipid research clinic (human)
N01HV-22932-09 Establishment of a lipid research clinic
** N01HV-32931-09 Establishment of a lipid research clinic center
** N01HV-52966-01 Oevelopment and evaluation of an ultrasonic imaging system (swine)
N01HV-53015-09 Establishment of a lipid research clinic (human)
** N01HV-53029-04 Nonhuman primate models of atherosclerosis
** N01HV-53030-05 Nonhuman primate models of atherosclerosis and hypertension
** N01HV-53031-04 Nonhuman primate models of atherosclerosis and hypertension
** N01HV-62905-02 Non-human primate models of arteriosclerosis
** N01HV-72924-04 Non-invasive detection of atherosclerotic lesions (human, animals)
** N01HV-72925-04 Non-invasive detection of atherosclerotic lesions (human, monkeys, dogs)
N01HV-72926-04 Ultrasonic imaging development
** N01HV-72927-00 Systems for non-invasive detection of atherosclerotic lesions (human)
** N01HV-72928-04 Oevelop high resolution ultrasonic imaging techniques
** N01HV-72929-01 Improved detection of atherosclerosis (human, dogs)
** N01HV-72930-02 Atherosclerosis assessment--Angiography and ultrasound (dogs, human)
** N01HV-72931-02 Non-invasive detection of atherosclerotic lesions (human, dogs)
** N01HV-72932-00 Non-invasive detection of atherosclerotic lesions (human, phantoms)
** N01HV-72978-02 Oevelopment of models of hypertension
** N01HV-72980-02 Oevelopment of models of hypertension

CARDIOVASCULAR DISORDERS, ARTERIOVENOUS SHUNTS ABNORMAL

SEE ALSO CAROIOVASCULAR SYSTEM, OUCTUS ARTERIOSUS EMBRYONIC

** P01HL-15194-07 0011 Pathophysiology of cardiopulmonary dysfunction - Oistribution of ventilation--Oxygen effects on intrapulmonary shunting (human)
R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
P01HL-18576-03 0010 Thrombosis research program project - Evaluation of non-thrombogenic materials (cattle)
** R01HL-19225-02 0002 Types and mechanims of pulmonary hypertension - Effect of aorto-pulmonary shunt (pigs)
R01HL-19225-02 0003 Types and mechanims of pulmonary hypertension - Cardiopulmonary function in pigs and rats
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
R01HL-21657-01 Regional non-ischemic myocardial hypoxia (dogs)
R01HL-22482-01 Circulatory hemodynamics and sodium excretion (dogs)

CARDIOVASCULAR DISORDERS, ARTERITIS

SEE ALSO CEREBROVASCULAR OISOROERS, TEMPORAL ARTERITIS
SEE ALSO KIONEY OISOROERS, GLOMERULONEPHRITIS

** R01HL-19539-03 Pathology of hypertensive-associated arteritis (rabbits)
** R01HL-22939-01 Human kinin and fibrinolytic systems and renal disease (human)

CARDIOVASCULAR DISORDERS, EMBOLISM

SEE ALSO CAROIOVASCULAR OISOROERS, ARTERIAL OCCLUSIONS
SEE ALSO CAROIOVASCULAR OISOROERS, VENOUS OCCLUSIONS
SEE ALSO CAROIOVASCULAR SURGERY, VASCULAR OCCLUSION THERAPEUTIC

P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system

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**Oriented significantly to above subject.

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P01HL-08899-14 0029 Tolerance to respiratory gases in health and disease - Isobaric gas counter diffusion phenomena (humans pigs)
** P01HL-11414-11 0027 Thrombosis and atherosclerosis program - Thermal memory wire filter to prevent pulmonary embolism (human, dogs)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-12530-10 Emphysema-Respiratory function in disease (human, dogs, rats)
** R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)
** P50HL-14187-07 0008 Pulmonary SCOR-Chemical mediators in pulmonary vascular responses - Pulmonary thromboembolism (dogs, human)
P50HL-14217-08 0052 Specialized center of research in thrombosis - Radioisotope nuclear medicine section (human, dog)
P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
P01HL-15486-06 0006 Studies on thrombosis - Clinical investigation unit
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
** P01HL-15596-05 0007 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of urokinase (human)
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
P60HL-17265-04 0007 Community blood resource center support - Research--Massive transfusion and trauma (human)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
P50HL-17665-04 0027 Study of ischemic heart disease - Positron imaging of regional myocardial perfusion (human, dog)
P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)
R01HL-17821-03 Cavitation phenomena near prosthetic devices
** R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
** P01HL-18576-03 0013 Thrombosis research program project - Early warning and monitoring test systems in thrombotic disease (human)
R01HL-18815-03 Surgical vascular disorders (human, dogs)
** P50HL-19155-02 0004 Pathophysiology of pulmonary edema - Physical and chemical effects of multiple pulmonary emboli (sheep)
R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
R01HL-19993-02 Optical detection of platelet aggregates (human, baboons)
** R01HL-20554-02 Memory-alloy-filters for venous emboli (dogs)
** R01HL-21518-01 Improvement in regional ventilation-perfusion resolution (human)
M P01HL-22163-01 Surface thrombogenesis--Mechanisms and prevention
** P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)
** P01HL-22163-01 9001 Surface thrombogenesis--Mechanisms and prevention - Polymers for studing blood-material interactions core
R01HL-22852-01 Diagnostic techniques in venous thromboembolism (human)

CARDIOVASCULAR DISORDERS, EMBOLISM, AIR

P01HL-08899-14 0056 Tolerance to respiratory gases in health and disease - Extension of pulmonary oxygen tolerance at increased pressures (animals)
P01HL-08899-14 0072 Tolerance to respiratory gases in health and disease - Inert gas exchange isobaric gas counterdiffusion and decompression
P01HL-08899-14 0074 Tolerance to respiratory gases in health and disease - Biomathematical analysis of isobaric gas exchange and bubble formation
** P01HL-08899-14 0076 Tolerance to respiratory gases in health and disease - Bubble formation during gas counterdiffusion (hamsters)
P01HL-08899-14 0078 Tolerance to respiratory gases in health and disease - Isobaric gas counterdiffusion--Sensory, cutaneous and systemic function (animals)
** P01HL-08899-14 0079 Tolerance to respiratory gases in health and disease - Physiological factors in counterdiffusion bubble formation (human, pigs)
** P01HL-08899-14 0080 Tolerance to respiratory gases in health and disease - Dynamic quantitation of continuous isobaric gas embolization
P01HL-08899-14 0089 Tolerance to respiratory gases in health and disease - Decompression by applications of optimal control theory
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
** R01HL-16855-03 Cavitation in biological systems (microorganisms, animals)
** R01HL-17503-03 Vascular bubbles in decompression sickness (minipig, dog, goat)
R01HL-22413-01 Enhanced detection of bubbles in Doppler flow signals (human)

CARDIOVASCULAR DISORDERS, EMBOLISM, FAT

R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
** R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)

CARDIOVASCULAR DISORDERS, EMBOLISM, THROMBOEMBOLISM

R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
** P01HL-11310-12 0095 Mechanisms of cardiovascular disease - Blood and translusion disorders (human, rats, monkeys)
P01HL-11414-11 0028 Thrombosis and atherosclerosis program - Catecholamine metabolism in the lung (rat)
** R01HL-11686-09 Dynamics of thrombus formation and dissolution (human, chickens)
P01HL-13738-08 0005 Cardiac assist devices and artificial hearts - Development of new materials for artificial heart and assist devices (sheep, dog)
** R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
P60HL-15158-07 0011 Comprehensive sickle cell center - Clinical services--Adult patients
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
M P01HL-16387-04 The blood vessel and thrombogenesis
** P01HL-16387-04 0002 The blood vessel and thrombogenesis - Hormonal effects on thrombogenesis (rats, rabbits)
** P01HL-16387-04 0003 The blood vessel and thrombogenesis - Blood vessel healing (rabbits)
** P01HL-16387-04 0004 The blood vessel and thrombogenesis - Analysis of vascular basement membrane by enzymatic methods (human)
** P01HL-16387-04 0005 The blood vessel and thrombogenesis - Fluid engineering considerations in thrombogenesis
** P01HL-16387-04 0008 The blood vessel and thrombogenesis - Factor VIII in hemostasis (human, rabbits)
** R01HL-16646-05 Pathobiology of thromboembolic disorders (human)
M P01HL-17419-04 Studies on mechanisms of hemostasis
** P01HL-17419-04 0003 Studies on mechanisms of hemostasis - Characterization of fibrinogen (human)
** R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
** R01HL-18333-05 Thrombogenesis and hemostatic balance (rabbits, human)
R01HL-18738-02 Prevention of postoperative venous thrombi (human, cattle)
** P01HL-18827-02 0007 Platelet vessel wall interactions in thrombogenesis - Biochemistry and role factor V in thrombogenesis (human, cattle)
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
R01HL-19270-03 Effects of erythropoiesis on platelets and hemostasis (rats)
** R01HL-20218-02 Fibrinogen catabolism and intravascular coagulation (human)
R01HL-21431-02 Factor II antigen and coagulant activity (human, animals)
** R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
** R01HL-22852-01 Diagnostic techniques in venous thromboembolism (human)
N01HV-72939-01 Develop and evaluate left heart assist blood pumps (human, calves, pigs)

CARDIOVASCULAR DISORDERS, HEMORRHAGE

SEE ALSO BLOOD AND RE DISORDERS, HEMORRHAGIC DISORDERS
SEE ALSO BLOOD STASIS
SEE ALSO CEREBROVASCULAR DISORDERS, CEREBRAL HEMORRHAGE
SEE ALSO CEREBROVASCULAR DISORDERS, MENINGEAL HEMORRHAGES
SEE ALSO EYE CIRCULATORY DISORDERS, RETINAL (INCLUDING VITREOUS) HEMORRHAGE
SEE ALSO GASTROINTESTINAL CIRCULATORY DISORDERS, HEMORRHAGE, GASTROINTESTINAL
R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
P01HL-11678-11 0027 Cardiovascular dynamics and their control - Vasopressin and thirst in control of body fluid volumes and osmolality (dogs)
** P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
P50HL-14214-07 0031 Newborn lung center for hyaline membrane disease - Essential fatty acid deficiency and HMD (human)
R01HL-14529-07 Systems analysis of baroreflex (dogs)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
P01HL-16910-05 0005 Regulation of the peripheral circulation - Control of circulation by baroreceptor and chemoreceptor reflexes (dog, monkey)
P01HL-16910-05 0006 Regulation of the peripheral circulation - Regulation of blood flow distribution (baboons, dogs)
R01HL-16916-04 0011 The role of albumins in lung water accumulation - Whole body distribution and exchange of albumin (rabbits, human, monkeys)
P60HL-17265-04 0007 Community blood resource center support - Research--Massive transfusion and trauma (human)
R01HL-18586-03 Role of platelet lipids in hemostasis and thrombosis (human)
R01HL-18672-03 Dynamic studies of clot structure formation (human)
R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R01HL-20864-01 Postnatal maturation of cardiovascular regulatory system (minipig)
R01HL-21094-01 Arterial baroreceptors and renal function (dogs)
** R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)

CARDIOVASCULAR DISORDERS, HEMORRAGIC SHOCK

R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
** R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
R01HL-03181-21 0029 Hemodynamics as applied to surgical problems - Indocyanine green clearance for estimation of hepatic blood flow (human)
** R01HL-05875-18 Pathologic metabolic and physiologic studies of heart (human, dogs, cats)
** P01HL-07896-15 0054 Environmental biomedical research program - Myocardial effects of hemorrhagic shock (dogs)
P01HL-08682-15 0019 Regulation of the cardiovascular system - Hepatic immunophysiology and host-defense in shock (rat, dog, human)
P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
P01HL-08682-15 0036 Regulation of the cardiovascular system - Electrolyte transport in myocardium with hemorrhagic shock (rats)
** P01HL-11678-11 0043 Cardiovascular dynamics and their control - Basic mechanisms of circulatory shock (dog)
** P01HL-11678-11 0068 Cardiovascular dynamics and their control - Basic hemodynamics (rats, dogs)
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
** R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
** R01HL-12690-09 Systemic and local vascular adjustment in shock (monkeys, cats)
P01HL-12738-10 0069 Physiologic pharmacology and its clinical applications - Blood rheology in coronary heart disease (dogs)
** R01HL-13193-09 Pathophysiology of post-traumatic and shock states (rodents, dogs)
R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)
R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
R01HL-15607-06 Physiological control of splanchnic circulation (dogs)
R01HL-15758-06 Catecholamine release in the heart (dogs)
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
R01HL-16489-04 Renal prostaglandins--Synthesis and function (human, dogs, rats)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-17091-05 Anesthetics and microvascular response to hemorrhage (rats)
P60HL-17269-04 0024 National heart and blood vessel research and demonstration center - Section of experimental cardiovascular surgery--Core facility
** R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
** R01HL-18002-03 Circulatory shock, trauma and RE-system function (rats)
R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
** R01HL-18731-02 RES stimulating materials in experimental shock (dogs)
R01HL-18762-03 Post-traumatic pulmonary insufficiency (dogs)
R01HL-18866-02 Microvascular flow, volume, and reactivity (rats, cats)
** P50HL-19185-02 0006 Pulmonary SCOR--Neonatal respiratory distress syndromes - Evaluation of risk factors in neonatal respiratory distress (human, sheep)
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-19725-03 Complement induced pulmonary injury (dogs, rabbits, sheep)
** R01HL-19977-02 Genesis of circulatory shock by pancreatic peptides (cats, dogs)
R01HL-20177-02 Effects of erythrocyte deformability on tissue perfusion (rats)
** R01HL-21076-02 Lung fluid, protein exchange after hemorrhagic shock (sheep)
R01HL-21843-01 Ischemia, diabetes and the microcirculation (rats, cats, hamsters)
R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
R01HL-22435-02 Pulmonary alveolar-capillary permeability characteristic (dogs)
** R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)

CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC)

SEE ALSO ADRENAL GLANDS DISORDERS, ADRENAL HYPERTENSION
SEE ALSO BODY FLUID BALANCE, EDEMA
SEE ALSO CARDIOVASCULAR AGENTS, ANTIHYPERTENSIVE AGENTS
SEE ALSO KIDNEY-CIRCULATORY DISORDERS, RENAL HYPERTENSION
SEE ALSO KIDNEY-CIRCULATORY DISORDERS, RENOPRIVAL HYPERTENSION
SEE ALSO LIVER CIRCULATORY DISORDERS, PORTAL HYPERTENSION
SEE ALSO MAMMALS, RODENTS, MYOMORPHA, SPONTANEOUS HYPERTENSIVE RATS*
SEE ALSO NATIONAL HIGH BLOOD PRESSURE EDUCATION RESEARCH PROGRAM COMMITTEE
SEE ALSO PREGNANCY TOXEMIAS AND HYPERTENSION
SEE ALSO RESPIRATORY CIRCULATORY DISORDERS, PULMONARY HYPERTENSION

R01HL-01803-23 0017 Arteriosclerosis, glomerulonephritis, rheumatic fever - Contractile and relaxing proteins of blood vessels and platelets (mammals, human)
** P01HL-03174-23 0001 Mechanisms of acute vascular reaction to injury - Response of the vascular intima to injury (human, rats)
** P01HL-03174-23 0013 Mechanisms of acute vascular reaction to injury - Surface morphology of the aorta in normal and injured states (rats, rabbits)
** R01HL-03181-21 0028 Hemodynamics as applied to surgical problems - Extra-renal factors in the hypertension of coarctation (dog)
P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
P01HL-06296-18 0003 Cardiovascular and pulmonary adaptation to stress - Human exercise studies (human, dogs)
P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
** R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
P01HL-06835-17 0021 Cardiovascular disease - Animal study in atherosclerosis (dog, guinea pig)
P01HL-06835-17 0022 Cardiovascular disease - Arterial lipogenesis from glucose in the rat
** P01HL-06835-17 0024 Cardiovascular disease - Studies on the obese spontaneously hypertensive rat
** P01HL-06835-17 0046 Cardiovascular disease - Renin activity during salt depletion in essential hypertension (human)
** P01HL-06835-17 0051 Cardiovascular disease - Cardiopulmonary volume in hypertension (human)
** P01HL-06835-17 0052 Cardiovascular disease - Aortic distensibility (human)
** P01HL-06835-17 0053 Cardiovascular disease - Vasodilating drugs (human)
** P01HL-06835-17 0057 Cardiovascular disease - Studies on cardiac hypertrophy
** P01HL-07896-15 0055 Environmental biomedical research program - Cerebral blood flow by Xenon-133 inhalation (human)
P01HL-08974-14 0005 Natural and experimental atherosclerosis - Atherosclerosis, coronary heart disease and sudden death (human)
P01HL-08974-14 0028 Natural and experimental atherosclerosis - Geographic pathology of atherosclerosis and coronary heart disease (human)
** R01HL-09622-14 Pathogenesis of atherosclerosis (rats)
R01HL-10160-13 Origins of atherosclerosis (human)
R01HL-10182-13 Circulatory function and electrolytic metabolism (dogs, human)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
P01HL-10539-12 0066 Pathophysiology of circulation - Usefulness of relaxation response in industrial settings
** P01HL-10539-12 0070 Pathophysiology of circulation - Effects of hypertension on myocardial blood flow after coronary occlusion (dogs)
** R01HL-10612-13 0019 Humoral factors in heart failure and hypertension - Pathogenesis of hypertension in the spontaneous hypertensive rat
R01HL-10612-13 0021 Humoral factors in heart failure and hypertension - The control of aldosterone secretion (dogs)
** R01HL-10711-12 Cooperative study of treatment of hypertension (human)
** R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
R01HL-11289-12 Analysis of stress in pulsatile dynamics
P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
P01HL-11310-12 0093 Mechanisms of cardiovascular disease - Multiple dipole electrocardiogram project (human, dogs)
P01HL-11310-12 0106 Mechanisms of cardiovascular disease - Biochemical characterization of the collagens in vascular tissue (catte)
M P01HL-11414-11 Thrombosis and atherosclerosis program
** P01HL-11678-11 0027 Cardiovascular dynamics and their control - Vasopressin and thirst in control of body fluid volumes and osmolality (dogs)
** P01HL-11678-11 0031 Cardiovascular dynamics and their control - Hypertension caused by stimulation of renal sympathetic nerves (dogs)
** P01HL-11678-11 0058 Cardiovascular dynamics and their control - Overall control of the circulation--Computer analysis
P01HL-11678-11 0059 Cardiovascular dynamics and their control - Basic hemodynamics (dogs, rats)
** P01HL-11678-11 0065 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (dogs)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
** R01HL-12614-09 Microcirculatory control mechanisms and hypertension (bats, rats)
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotherapeutic drugs and cardiovascular system (human, rats)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
M P01HL-13262-07 Arterial wall in atherosclerosis
** P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)
** P01HL-13262-07 0024 Arterial wall in atherosclerosis - Serial ocular changes in arteriosclerosis and hypertension
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
R01HL-13888-15 Regulation of respiration
** R01HL-13936-06 Microvascular responses in hypertension (human, rats)
P50HL-14138-05 0015 Center for research on atherosclerosis - Arterial wall--Intermediary metabolism, enzyme activity and bioenergetics
P50HL-14141-05 0002 SCOR for atherosclerosis in childhood - Intrauterine environment of proband group (human)
M R01HL-14148-07 The regional circulations
** R01HL-14148-07 0004 The regional circulations - Funduscopic mapping by photography (human)
** R01HL-14148-07 0009 The regional circulations - Myocardial circulation in hypertension and atherosclerosis (human)
M P50HL-14159-08 Specialized center of research in hypertension
** P50HL-14159-08 0008 Specialized center of research in hypertension - Renal function and sodium metabolism in hypertension (rats, human, rabbits)
** P50HL-14159-08 0018 Specialized center of research in hypertension - Sympathetic nervous system in hypertension (rats)
** P50HL-14159-08 0023 Specialized center of research in hypertension - Core computation
** P50HL-14159-08 0024 Specialized center of research in hypertension - Core resources (clinical, animal models)
P50HL-14164-07 0029 A/S SCOR--Comparative and experimental atherosclerosis - Development of pigeon substrains
M P50HL-14192-08 Specialized center of research in hypertension
** P50HL-14230-07 0088 A/S SCOR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
P50HL-14236-05 0005 Prevention of premature arteriosclerosis - Genetically hyperlipidemic and hypolipidemic rats
P50HL-14236-05 0007 Prevention of premature arteriosclerosis - Exercise stress testing hyperlipoproteinemia (human)
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
M P01HL-14388-07 Regulation of the circulation in pathological states
P01HL-14388-07 0155 Regulation of the circulation in pathological states - Cardiopulmonary afferent activity, carotid chemo-baroreceptor reflexes
** P01HL-14388-07 0158 Regulation of the circulation in pathological states - Developmental aspect of abnormal vascular reactivity (rats)
** P01HL-14388-07 0159 Regulation of the circulation in pathological states - Early drug and diet interventions and blood pressure development (rats)
** P01HL-14388-07 0160 Regulation of the circulation in pathological states - Mechanism of the antihypertensive effect of training (rats)
P01HL-14388-07 0167 Regulation of the circulation in pathological states - Increased reactivity of artery vascular muscle in spontaneously hypertensive rat
P01HL-14388-07 0168 Regulation of the circulation in pathological states - Ionic basis of depolarization (rats, tissue culture)
** P01HL-14388-07 0178 Regulation of the circulation in pathological states - Structural and functional consequences of denervation (rats)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0187 Regulation of the circulation in pathological states - Histamine and circulatory control
** P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
** P01HL-14388-07 0194 Regulation of the circulation in pathological states - Dopamine-beta-hydroxylase localization and release in hypertension
** P01HL-14388-07 0195 Regulation of the circulation in pathological states - General review of potential pathophysiologic factors in spontaneous hypertension
** P01HL-14388-07 0196 Regulation of the circulation in pathological states - Altered vascular responsiveness in spontaneous hypertension (rats)
** P01HL-14388-07 0197 Regulation of the circulation in pathological states - Altered vascular reactivity in pathogenesis of spontaneous hypertension (rats)
** P01HL-14388-07 0198 Regulation of the circulation in pathological states - Humoral factors in vascular reactivity in spontaneously hypertensive rats
** P01HL-14388-07 0199 Regulation of the circulation in pathological states - Adrenergic stimulation in spontaneously hypertensive rats
** P01HL-14388-07 0201 Regulation of the circulation in pathological states - Central sympathetic discharge in spontaneously hypertensive rats
** P01HL-14388-07 0202 Regulation of the circulation in pathological states - Development of hypertension in spontaneously hypertensive rats
** P01HL-14388-07 0203 Regulation of the circulation in pathological states - Activation of sympathetic nervous systems in spontaneously hyperactive rats
P01HL-14388-07 0204 Regulation of the circulation in pathological states - Reflex control of vascular resistance in spontaneously hypertensive rats
** P01HL-14388-07 0205 Regulation of the circulation in pathological states - Pathogenesis of hypertension in spontaneously hypertensive rats
** P01HL-14388-07 0207 Regulation of the circulation in pathological states - Brain and renin-angiotension interaction in spontaneous hypertension (rats)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

** P01HL-14388-07 0208 Regulation of the circulation in pathological states - Barorecoptor reflex function in normal and hypertensive man
** P01HL-14388-07 0209 Regulation of the circulation in pathological states - Neural regulation of vascular resistance in human hypertension
P01HL-14388-07 0210 Regulation of the circulation in pathological states - Effects of dietary sodium on blood pressure and vascular reactivity
** P01HL-14388-07 0216 Regulation of the circulation in pathological states - Development and regression of ventricular hypertrophy (cats, rats)
** P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
** P01HL-14388-07 0222 Regulation of the circulation in pathological states - Renal perfusion pressure in hypertension (rats)
** P01HL-14388-07 0223 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (rats)
** P01HL-14388-07 0224 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (human)
P01HL-14388-07 0225 Regulation of the circulation in pathological states - Release of renal prostaglandins by saluretic-diuretic agents (dogs)
** R01HL-14526-07 Oral contraceptives and hypertension (rats)
** R01HL-14944-07 Renal vascular reactivity in hypertensive patient
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
** P50HL-15062-07 0020 Study of lipoproteins, artery wall, and atherosclerosis - Artery wall reactions--Elevated pressure and hyperlipemia (monkey)
M P50HL-15103-07 A/S SCOR--Early natural history of arteriosclerosis
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
** P50HL-15103-07 0013 A/S SCOR--Early natural history of arteriosclerosis - Experimental models of atherosclerosis (monkeys)
** R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
P01HL-15194-07 0020 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation in arteriographically normal arteries (human)
R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
R01HL-15562-05 Regulation of skeletal muscle blood flow (dogs)
R01HL-15696-06 Mechanism and role of cyclic GMP in heart (animals)
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
** R01HL-15852-06 Vascular ion transport and hypertensive mechanisms
R01HL-16003-08 Sources and roles of calcium in smooth muscle excitation (rats)
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
** R01HL-16328-06 Membrane electrical properties of vascular muscle (human, animals)
** R01HL-16403-05 Prognostication by computer--Analyzed vectorcardiogram (human)
R01HL-16419-03 Arterial uptake of lipoprotein--Kinetic analysis (rabbits)
** R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
R01HL-16657-06 Innervation of coronary arteries and heart (rats)
R01HL-16774-04 Genetic epidemiology of hyperlipemia (Honolulu)
P01HL-16910-05 0005 Regulation of the peripheral circulation - Control of circulation by baroreceptor and chemoreceptor reflexes (dog, monkey)
R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
** R25HL-17056-01 Improving patient compliance through nursing action
P60HL-17269-04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat)
P60HL-17269-04 0024 National heart and blood vessel research and demonstration center - Section of experimental cardiovascular surgery--Core facility
P60HL-17269-04 0039 National heart and blood vessel research and demonstration center - Health care services to patients in neighborhood clinics
** R01HL-17335-05 Contractile properties of hypertensive arterioles (rats)
R01HL-17341-03 Practical total synthesis of prostaglandins
** R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
** R01HL-17401-03 Mechanisms in angiotensin induced hypertension (cats, dogs)
R01HL-17580-04 The impact of stress on coronary heart disease (men)
R01HL-17604-03 Wearable blood pressure and ECG recording system
** R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
** R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
** R01HL-17724-03 Oral contraceptives and hypertension (rats)
R01HL-17747-04 Endothelial injury and regeneration (rats)
** R01HL-17749-03 Adrenocortical factors in human hypertension (human)
** R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)
R01HL-17781-03 Hypertension, kidney disease and renal lymph (dogs, rats)
M P01HL-17871-04 Kidney, sodium, cardiac output, arterioles and hypertension
R01HL-17897-03 Synthesis of alpha and beta adrenergic antagonists
** R01HL-18027-03 New vasoactive factors and their role in hypertension (human, dogs, rats)
R01HL-18077-04 Smooth muscle cell organization and Ca20 concentration control (chickens)
R01HL-18085-03 Neural factors in atherogenesis (squirrel monkeys)
** R01HL-18087-03 Development and regression of cardiac hypertrophy (rats, rabbits)
R01HL-18095-04 Human dopamine-beta-hydroxylase (also cattle)
R01HL-18156-02 Hemodynamics in curved arteries
** R01HL-18175-03 Drug taking for hypertension in a rural community
M P50HL-18318-03 Pathogenesis and complications of hypertension
** P50HL-18318-03 0001 Pathogenesis and complications of hypertension - Core clinical program
** P50HL-18318-03 0002 Pathogenesis and complications of hypertension - Core experimental animal facility (rats, rabbits)
** P50HL-18318-03 0003 Pathogenesis and complications of hypertension - Core biochemical laboratory
** P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
** P50HL-18318-03 0012 Pathogenesis and complications of hypertension - Behavioral factors in hypertension (human)
** P50HL-18318-03 0013 Pathogenesis and complications of hypertension - Humoral factors and renal function in human hypertension
** P50HL-18318-03 0014 Pathogenesis and complications of hypertension - Arterial metabolism and atherogenesis (rat, rabbit)
** P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
** P50HL-18318-03 0018 Pathogenesis and complications of hypertension - Plasma renin activity in chronic ischemic heart disease (human)
** P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
M P50HL-18323-04 SCOR hypertension center
** P50HL-18323-04 0011 SCOR hypertension center - Endocrine profiling on a selected normal population (human)
** P50HL-18323-04 0012 SCOR hypertension center - Renin as a risk factor (human)
** P50HL-18323-04 0033 SCOR hypertension center - Core laboratory--Renin, aldosterone and bradykinin methodology
** P50HL-18323-04 0034 SCOR hypertension center - Core--Data management
** P50HL-18323-04 0035 SCOR hypertension center - Control of high blood pressure at the work site
** P50HL-18323-04 0038 SCOR hypertension center - Unknown adrenocortical mechanisms in hypertension (human)
** P50HL-18323-04 0041 SCOR hypertension center - Measurement of sympathetic response in hypertensive patients
** P50HL-18323-04 0042 SCOR hypertension center - Blood viscosity and blood volume in hypertensive disease (human, dog)
** P50HL-18323-04 0043 SCOR hypertension center - Pharmacology--Renin-aldosterone mechanisms in essential hypertension (human)
** P50HL-18323-04 0044 SCOR hypertension center - Angiotensin blockade to identify angiotensin II factor in hypertension (human)
** P50HL-18323-04 0045 SCOR hypertension center - Laboratory programs--Prorenin (human)
** P50HL-18323-04 0046 SCOR hypertension center - Coronary artery bypass surgery--Associated hypertension (human)
** P50HL-18323-04 0047 SCOR hypertension center - Transcendental meditation and self-hypnosis--Hypertension treatment (human)
** R25HL-18406-03 Adherence to hypertensive medical regimens (human)
** R25HL-18414-03 Hypertension--Family strategies for patient adherence
** R25HL-18418-03 Role of a supporting partner in adherence (human)
** R25HL-18424-03 Blood pressure education in an industrial setting (human)
** R01HL-18456-03 Cardiovascular follow-up of hypertensive adolescents
R01HL-18473-04 Genesis of atherosclerotic lesions (human, mice)
R01HL-18489-03 Hemodynamic interactions of vasoactive chemicals (rats)
R01HL-18561-03 Radioimmunoassay of angiotensinogen (human)
P01HL-18574-03 0001 Lipoprotein methodology and biomedical applications - Ultracentrifugal and electrophoretic lipoprotein methodology--Applications
** R01HL-18629-04 Influence of aging and hypertension on the myocardium (rats)
** R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
R01HL-18783-04 Detection and control of ventricular premature beats (human)
** R01HL-18814-03 Behavioral tactics for clinical cardiac control (human)
** R01HL-18823-02 Physiological correlates of conditioned blood pressure (human)
** R01HL-18831-03 Microscopy of spontaneously hypertensive arterial lesion (rats)
R01HL-18850-03 Classification code for Frank orthogonal ECG
R01HL-18866-02 Microvascular flow, volume, and reactivity (rats, cats)
R01HL-18933-03 Energy output and efficiency of left ventricle (dog)
R01HL-18947-02 Indirect mean arterial pressure (mammals)
M P01HL-18974-03 Experimental neurogenic hypertension program
** P01HL-18974-03 0006 Experimental neurogenic hypertension program - Model of sustained arterial hypertension (cats)
** R01HL-18976-03 Blood pressure control--Relation to behavioral stress (human, dog)
** R01HL-19027-03 Calcium and cyclic AMP in causation of hypertension (rats)
** R01HL-19048-03 Structure of baroreceptors in hypertension (rats)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
** R01HL-19091-02 Sustained increase in cardiac output (dogs)
** R01HL-19144-03 Contraceptive steroids and experimental hypertension (rats)
** R01HL-19226-03 Vascular smooth muscle in hypertension (rats)
M P01HL-19242-02 Study of vascular smooth muscle
** P01HL-19242-02 0001 Study of vascular smooth muscle - Energy metabolism and protein turnover in vascular smooth muscle (rats)
** P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
** P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
** P01HL-19242-02 0006 Study of vascular smooth muscle - The contractile system of vascular smooth muscle (swine, rats)
** P01HL-19242-02 0007 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (animals)
** P01HL-19242-02 0008 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (rats)
** P01HL-19242-02 0009 Study of vascular smooth muscle - Electrophysiology of vascular smooth muscle (rats, chick embryo)
R01HL-19246-03 Regression of cardiac hypertrophy--Myocardial and renal (human)
** R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
M P50HL-19362-02 A/S SCOR--Atherosclerosis in nonhuman primates
P50HL-19362-02 0003 A/S SCOR--Atherosclerosis in nonhuman primates - Heritability of characters related to atherosclerosis (baboons)
P50HL-19362-02 0004 A/S SCOR--Atherosclerosis in nonhuman primates - Selective breeding for characters related to atherosclerosis (baboons)
** P50HL-19362-02 0011 A/S SCOR--Atherosclerosis in nonhuman primates - Chronic hypertension induced by operant conditioning techniques (baboon)
** P50HL-19362-02 0012 A/S SCOR--Atherosclerosis in nonhuman primates - Induction of chronic hypertension by salt loading (baboon)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
** R01HL-19568-03 Hypertension--Analysis of drug and behavioral therapies (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
** R01HL-19844-02 Behavioral control of essential hypertension (human)
** R01HL-19858-03 UMMC--Blood pressure precursors and consequences (human)
** R01HL-19877-02 Prevention of high blood pressure in children
** R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
R01HL-20054-02 Cultured blood vessel cells--Pathophysiology (human, animals)
R01HL-20124-02 Coronary risk factors (human)
R01HL-20179-02 Epidemiology of sudden cardiac death among women
R01HL-20187-01 Evaluation of exercise cardiac rehabilitation program (40-55 year old men)
** R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
** R01HL-20244-02 he impact of hypertension information
** R01HL-20245-01 The impact of hypertension information
** R01HL-20247-01 The impact of hypertension information
** R01HL-20248-01 The impact of hypertension information
R01HL-20339-02 Vascular alpha-adrenergic receptor molecular properties
** R01HL-20364-01 Episodic hypertension associated with human behavior (air traffic controllers)
** R01HL-20455-03 Role of systemic hypertension on diabetic retinopathy (human)
R01HL-20471-03 Atherosclerosis and diabetes mellitus (human)
** R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
M P01HL-20552-02 The development and regression of cardiac hypertrophy
** P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
P01HL-20552-02 0003 The development and regression of cardiac hypertrophy - Muscle mechanics of the hypertrophied left ventricle (rats)
M R01HL-20572-02 Hemodynamic relations to metabolism in hypertension
** R01HL-20572-02 0001 Hemodynamic relations to metabolism in hypertension - Hemodynamic and myocardial functional studies in the SHR (rat)
** R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood flow in hypertension (rats)
** R01HL-20572-02 0008 Hemodynamic relations to metabolism in hypertension - Role of nervous system in hemodynamic function
M P01HL-20581-01 Vascular neuroeffector mechanisms in health and disease
** P01HL-20581-01 0005 Vascular neuroeffector mechanisms in health and disease - Changes in the neuroeffector mechanism in hypertension (rabbits)
** P01HL-20581-01 0006 Vascular neuroeffector mechanisms in health and disease - Neuroeffector mechanism in arteries and veins in hypertension (human)
** R01HL-20604-03 Sympathectomy--Cardiovascular and molecular pharmacology (animals)
** R01HL-20655-02 Autonomic predictors of hypertension in children
R01HL-20662-02 Physical activity, fitness and epidemiology of CHO
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
** R01HL-20724-01 Behavioral consequences of hypertension (human)
R01HL-20827-02 Effects of hypertrophy on the coronary circulation (dogs)
R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
R01HL-20910-02 The alternative diet for coronary disease prevention (human)
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
** R01HL-21030-01 Calcium regulation and hypertension (rats)
R23HL-21066-02 Angiotensin and prostaglandin control of aldosterone (rats)
R01HL-21088-02 Genetic patterns in deaths from MI and stroke in Utah
** R01HL-21099-02 Subcellular changes of blood vessels in hypertension (rats)
** R01HL-21245-02 Influence of chronic exercise on hypertension (rats, primates)
** R01HL-21260-02 Risk factor relationships of atherosclerosis (monkeys)
** R01HL-21274-01 Prorenin--Physiological and biochemical analysis (human)
** R23HL-21291-02 Renin-mineralocorticoid axis in hypertensive diabetics (human)
** R01HL-21418-02 Experimental myocardial infarction (rats)
R01HL-21427-02 Behavioral changes in post infarction patients
R01HL-21429-02 Transport of LOL in arterial wall (human, mammals)
** R01HL-21498-02 Pathophysiology of edema (rats, cats)
** R01HL-21523-01 Hemodynamic effects of dietary sodium in man
** R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)
** R01HL-21578-01 Effect of exercise upon the hypertensive adolescent
** R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
R01HL-21799-01 Circumventricular sites of pressor action of angiotensin II (rats)
** R01HL-22032-01 Cardiovascular events in hypertensives (human)
** R01HL-22212-01 Alameda county high blood pressure control program
R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
** R01HL-22296-01 Autonomic mechanisms in man
** R01HL-22298-02 Origins of hypertension (human)
** R01HL-22341-01 Pathogenesis of atherosclerosis in rats
R01HL-22361-01 Regulation of cardiac adaptation to exercise (rats)
R01HL-22378-01 Psyco-somatic predictors of CHO in adolescence (human)
** R01HL-22380-01 Oetroit hypertension control program
** R01HL-22506-01 Hemodynamics of the clinical hypertensions
R01HL-22512-01 Ultrasonic instrumentation for cardiovascular studies
** R01HL-22546-02 Baroreceptor reflex mechanisms in man
** R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)
** P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
** R01HL-22667-01 Mechanisms of baroreceptor adaptation in hypertension (dogs)
R01HL-22740-01 Behavior and cardiovascular disease--Basic mechanisms (human)
R01HL-22750-01 Oigoxin in heart failure with sinus rhythm (human)
** R01HL-22802-01 A rural mining community hypertension control project (human)
** R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R01HL-22854-01 Non-invasive blood pressure measurement (rats)
** R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)
** R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis
** R01HL-22939-01 Human kinin and fibrinolytic systems and renal disease (human)
R01HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)
** R23HL-22984-01 Cyclic AMP dependent protein kinases in hypertension (rat)
** R01HL-23115-01 Regulation of active sodium transport (frogs, rats)
** R01HL-23201-01 Mechanisms of hypertension (human, rats)
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)
** R01HL-23600-01 Ions, water, and hypertension (human, dogs, rats)
** R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)
** N01HV-12434-11 Therapy for hypertension in the general population
** N01HV-12435-15 Therapy for hypertension in the general population (human)
** N01HV-12436-15 Hypertension therapy in the general population (human)
** N01HV-12440-14 Therapy for hypertension in the general population (human)
** N01HV-12442-14 Therapy for hypertension in the general population (human)
** N01HV-22931-14 Therapy for hypertension in general population
** N01HV-22937-07 Therapy for hypertension in general population
** N01HV-22938-11 Therapy for hypertension in general population
** N01HV-22939-12 Hypertension detection and follow-up program center
** N01HV-22945-11 Cooperative hypertension detection and follow-up study (human)
N01HV-22971-07 Prevention of coronary heart disease (human)
N01HV-22976-07 Multiple risk factor intervention trial, prevention of coronary heart disease
N01HV-22977-08 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22979-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22981-10 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-32933-07 Hypertension detection and follow-up program central laboratory (human)
N01HV-33101-06 Oevelopment and conduct of a multiple risk factor intervention trial (human)
N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33108-04 Prevention of coronary heart disease (human)
N01HV-33109-04 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33110-04 Prevention of coronary heart disease (human)
N01HV-42929-08 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42932-05 Risk factor intervention trial for the prevention of CHO (human)
N01HV-42933-09 Multiple risk factors in coronary heart disease (human)
** N01HV-53029-04 Nonhuman primate models of atherosclerosis
** N01HV-53030-05 Nonhuman primate models of atherosclerosis and hypertension
** N01HV-53031-04 Nonhuman primate models of atherosclerosis and hypertension
** N01HV-62905-02 Non-human primate models of arteriosclerosis
** N01HV-72915-02 Therapy for hypertension in the general population
** N01HV-72978-02 Oevelopment of models of hypertension
** N01HV-72980-02 Development of models of hypertension
** NG1HV-72984-03 High blood pressure control program (human)
** N01HV-72986-02 High blood pressure control program (human)
** N01HV-72987-02 High blood pressure control program (human)
** N01HV-72989-02 High blood pressure control program (human)
** N01HV-72990-00 High blood pressure control program (human)
** N01HV-82913-00 Oemonstration programs in hypertension control in the work setting (human)
** N01HV-82915-01 Therapy for hypertension in the general population (human)

CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), ANGIOTENSIN-RENIN-ALDOSTERONE-ASSOCIATED

SEE ALSO METABOLIC OISOROERS INBORN, BARTTER'S SYNOROME
SEE ALSO PEPTIOES, VASOACTIVE PEPTIOES, ANGIOTENSIN
SEE ALSO PEPTIOES, VASOACTIVE PEPTIOES, ANGIOTENSIN II
SEE ALSO PEPTIOES, VASOACTIVE PEPTIOES, ANGIOTENSINOGEN
SEE ALSO PEPTIOES, VASOACTIVE PEPTIDES, RENIN
SEE ALSO PEPTIDES, VASOACTIVE PEPTIOES, RENIN-ANGIOTENSIN SYSTEM
SEE ALSO PROTEASES ANO PEPTIOASES, ANGIOTENSINASE
** R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
R01HL-03303-21 Factors regulating electrolyte excretion by the kidney (human, dogs)
R01HL-03341-22 Epidemiology of atherosclerosis in Evans Co Georgia
** P01HL-06835-17 0017 Cardiovascular disease - Studies on obese hypertensive rats
** P01HL-06835-17 0037 Cardiovascular disease - Cardiac hypertrophy in spontaneously hypertensive rat
** P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
** R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
** R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
** R01HL-09911-12 Hormonal and dietary modification of NaC1 toxicity (rats) mice)
M R01HL-10612-13 Humoral factors in heart failure and hypertension
** R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
** P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension
M P01HL-11678-11 Cardiovascular dynamics and their control
** R01HL-12684-09 Angiotensin I and converting enzyme in hypertension (human, primates, dogs)
** R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
R01HL-13917-20 Secretion and effects of adrenal hormones (human, rabbits, sheep)
R01HL-14148-07 0002 The regional circulations - Catecholamine metabolism in subtypes of hypertension (human, animals)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-14148-07 0008 The regional circulations Renal circulation in hypertensive patients (also dogs)
** P50HL-14159-08 0020 Specialized center of research in hypertension Renin-mineralocorticoid system in hypertension (human, rat, dog)
** P50HL-14159-08 0022 Specialized center of research in hypertension - Core laboratory
M P50HL-14192-08 Specialized center of research in hypertension
** P50HL-14192-08 0003 Specialized center of research in hypertension - Prostaglandins as mediators of renin secretion (human, dog)
** P50HL-14192-08 0004 Specialized center of research in hypertension Isolation and characterization of pure renin (swine, rats, human, rabbits)
** P50HL-14192-08 0005 Specialized center of research in hypertension New techniques for recognition of renovascular hypertension (human, dogs)
** P50HL-14192-08 0007 Specialized center of research in hypertension - Role of new mineralocorticoids in hypertension (human, rats)
** R01HL-14306-07 Quantification of arterial pressure control (dogs)
** R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
** R01HL-14509-07 Hypertension--Chemistry and biophysics of angiotensin
R01HL-14560-07 Hypertension produced by sympathetic dysfunction (human, rats)
** R01HL-14944-07 Renal vascular reactivity in hypertensive patient
** R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
** R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
** R01HL-15808-06 Role of angiotensinogen in hypertension and stroke (human, rabbits)
** R01HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
R01HL-16603-05 Human and experimental renal diseases (animals)
** R01HL-16918-05 Role of steroids in hypertension (human)
** R01HL-17243-05 Cause of chronic experimental renal hypertension (dogs, rabbits)
** R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)
** R01HL-17458-04 Renal control of sodium excretion (rats)
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
** R01HL-17947-04 Experimental renal and neurogenic hypertension (human, animals)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
** R01HL-18102-02 Role of the adrenal cortex in human hypertension
M P50HL-18318-03 Pathogenesis and complications of hypertension
P50HL-18318-03 0001 Pathogenesis and complications of hypertension - Core clinical program
** P50HL-18318-03 0004 Pathogenesis and complications of hypertension - Steroid and renin profiles in hypertension (rats, human)
** P50HL-18318-03 0009 Pathogenesis and complications of hypertension - The mineralocorticoid-hypertensive syndrome in man
** P50HL-18318-03 0010 Pathogenesis and complications of hypertension - Hemodynamics in mineralocorticoid and low renin hypertension (human)
** P50HL-18318-03 0011 Pathogenesis and complications of hypertension - Adrenergic function--Renin and mineralocorticoid activity (human)
** P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
R01HL-18624-03 Study of kinins in hypertension and other diseases (human)
** R01HL-18875-03 Angiotension, prostaglandins, pressure and the kidney (rats)
** R01HL-18882-02 Hormones in hypertension (human)
** R01HL-18891-02 Electrolyte intake and blood pressure in hypertension (human)
** R01HL-19012-03 Smooth muscle of resistance vessels in hypertension (rats)
** R01HL-19229-02 Prostaglandins and hypertension (human, rats, dogs, rabbits)
** R01HL-19279-03 Intracellular action of aldosterone in hypertension (human, rats)
R01HL-19320-03 Angiotensin neuropharmacology--Relationship to sodium
** P50HL-19362-02 0010 A/S SCOR--Atherosclerosis in nonhuman primates - Antihypertensive therapy--Atherogenesis in experimental hypertension (baboon)
** R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
R01HL-19538-03 Synthesis of potential antihypertensive agents
** R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)
** R01HL-20189-01 Effects of renin on atherogenesis (rabbits)
** R01HL-20278-02 Cellular mechanisms of renin secretion (rats)
** P01HL-20581-01 0006 Vascular neuroeffector mechanisms in health and disease Neuroeffector mechanism in arteries and veins in hypertension (human)
** R01HL-21112-02 Aldosterone binding, clearance, and secretion in man
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
** R01HL-21779-01 Steroids in adrenal regeneration hypertension (rats)
** R01HL-21851-01 Cerebral microcirculation in experimental hypertension (cats, rabbits)
** R01HL-21877-01 Iso-renins in the hypertensive rat
** R01HL-21893-01 Blood volume distribution in hypertension (human)
** R23HL-21901-01 Hypertension, microvascular control and exercise (rats)
** R23HL-21914-01 Studies of vasomotor control (rats)
** R23HL-21917-01 Adrenal steroids in adolescent and adult hypertension
** R01HL-22069-02 Experimental renal arterial hypertension (dogs)
** R01HL-22261-01 Compliance of fluid spaces in advancing hypertension (rats)
** R01HL-22288-01 Renin and precursors--Structure and function (mice)
** R01HL-22390-01 Effect of chloride on renin (rats, dogs)
** R01HL-22411-01 Neuroendocrine involvement in hypertension (rats)
** R23HL-22438-01 The etiology of genetic hypertension (rats)
** R01HL-22506-01 Hemodynamics of the clinical hypertensions
** R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)
** R23HL-22728-01 Neural control of renin secretion (dogs)
** R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)
** R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)

CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), CATECHOLAMINE-ASSOCIATED

SEE ALSO PHENYLALKYLAMINES, CATECHOLAMINES
** R01HL-12648-09 Catecholamine metabolism in hypertensive diseases (human)
** R01HL-14148-07 0002 The regional circulations - Catecholamine metabolism in subtypes of hypertension (human, animals)
** R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
P50HL-17667-04 0031 Study of ischemic heart disease - Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
P50HL-18318-03 0001 Pathogenesis and complications of hypertension - Core clinical program
** R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)
** R01HL-21817-01 Catecholamines, blood pressure and circulation
** R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
** R01HL-22506-01 Hemodynamics of the clinical hypertensions

CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), ENVIRONMENT-ASSOCIATED

P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
** R01HL-19204-03 Environmental factors in hypertension (Rhesus monkeys)
** R01HL-19859-03 Epidemiological studies, precursors of hypertension (human)
M R01HL-19864-03 Blood pressure of children and young adults
** R01HL-19864-03 0001 Blood pressure of children and young adults - Follow up of students from Dormont, Pennsylvania
** R01HL-19864-03 0003 Blood pressure of children and young adults - Heart rate and blood pressure--Consistency in infancy (human)
** R01HL-19869-03 Antecedents of adolescent hypertension (human)
** R01HL-19922-03 Childhood determinants of blood pressure
** R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
** R01HL-19930-03 A prospective study--Blood pressure in newborn twins
** R01HL-19956-03 High blood pressure in the young (human)
** R01HL-19962-03 High blood pressure in young people in Tecumseh
** R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
** R01HL-20005-03 Factors in blood pressure levels of children
** R01HL-20034-03 Hypertension--Psychophysiologic and genetic precursors (human)
R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)

CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), GENETICS-ASSOCIATED

R01HL-03341-22 Epidemiology of atherosclerosis in Evans Co Georgia
** R01HL-10942-09 Study of genetic hypertension in rats
** R01HL-13408-05 Environmental-genetic interactions in hypertension (rats)
P50HL-14159-08 0020 Specialized center of research in hypertension Renin-mineralocorticoid system in hypertension (human, rat, dog)
** P50HL-14159-08 0021 Specialized center of research in hypertension Genetic studies of the physiology of hypertension (human, rats)
** R01HL-18715-02 Hypertension incidence project (human)
** R01HL-19859-03 Epidemiological studies, precursors of hypertension (human)
M R01HL-19864-03 Blood pressure of children and young adults
** R01HL-19864-03 0001 Blood pressure of children and young adults - Follow up of students from Dormont, Pennsylvania
** R01HL-19864-03 0003 Blood pressure of children and young adults - Heart rate and blood pressure--Consistency in infancy (human)
** R01HL-19869-03 Antecedents of adolescent hypertension (human)
** R01HL-19870-03 Hypertensive progeny--Physical and humoral precursor search
** R01HL-19922-03 Childhood determinants of blood pressure
** R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
** R01HL-19930-03 A prospective study--Blood pressure in newborn twins
** R01HL-19956-03 High blood pressure in the young (human)
** R01HL-19962-03 High blood pressure in young people in Tecumseh
** R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
** R01HL-20005-03 Factors in blood pressure levels of children
** R01HL-20034-03 Hypertension--Psychophysiologic and genetic precursors (human)
** R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)
** R01HL-23194-02 Genetics of hypertension and associated variables (human)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)

CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), KININS-BRADYKININ-KALLIKREIN-ASSOCIATED

SEE ALSO PEPTIDES, VASOACTIVE PEPTIDES, KALLIDIN
SEE ALSO PEPTIDES, VASOACTIVE PEPTIDES, KALLIDIN-9
SEE ALSO PEPTIDES, VASOACTIVE PEPTIDES, KALLIKREIN
** R01HL-09911-12 Hormonal and dietary modification of NaCl toxicity (rats) mice)
R01HL-12684-09 Angiotensin I and converting enzyme in hypertension (human, primates, dogs)
** R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
** R01HL-18624-03 Study of kinins in hypertension and other diseases (human)
** R01HL-18882-02 Hormones in hypertension (human)

CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), NEUROGENIC HYPERTENSION

R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
** P01HL-06835-17 0044 Cardiovascular disease - Baroreceptors in control of blood pressure during sleep (dogs)
P01HL-11678-11 0031 Cardiovascular dynamics and their control - Hypertension caused by stimulation of renal sympathetic nerves (dogs)
** P01HL-11678-11 0069 Cardiovascular dynamics and their control - Nervous control of the cirulation (dogs)
** P50HL-14159-08 0018 Specialized center of research in hypertension - Sympathetic nervous system in hypertension (rats)
** P01HL-14388-07 0186 Regulation of the circulation in pathological states - Angiotension in modulation of neurogenic vasoconstriction
** R01HL-14560-07 Hypertension produced by sympathetic dysfunction (human, rats)
R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
** R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
R01HL-16657-06 Innervation of coronary arteries and heart (rats)
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
** R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
** R01HL-17947-04 Experimental renal and neurogenic hypertension (human, animals)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
** R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
M P01HL-18974-03 Experimental neurogenic hypertension program
** P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)
** P01HL-18974-03 0006 Experimental neurogenic hypertension program - Model of sustained arterial hypertension (cats)
** P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)
P01HL-18974-03 0012 Experimental neurogenic hypertension program - Immunohistochemistry of central monoamine neurons (rats)
** P01HL-18974-03 0014 Experimental neurogenic hypertension program - Administrative core
P01HL-18974-03 0015 Experimental neurogenic hypertension program - Neurochemistry core
P01HL-18974-03 0016 Experimental neurogenic hypertension program - Neuroanatomy core
P01HL-18974-03 0017 Experimental neurogenic hypertension program - Computer-physiology core
R01HL-18976-03 Blood pressure control–Relation to behavioral stress (human, dog)
R01HL-19048-03 Structure of baroreceptors in hypertension (rats)
** R01HL-19144-03 Contraceptive steroids and experimental hypertension (rats)
** R01HL-19251-03 An index of sympathetic activity in hypertension (rats)
R01HL-19320-03 Angiotensin neuropharmacology–Relationship to sodium
R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
** P01HL-20581-01 0005 Vascular neuroeffector mechanisms in health and disease - Changes in the neuroeffector mechanism in hypertension (rabbits)
** R01HL-21099-02 Subcellular changes of blood vessels in hypertension (rats)
** R01HL-22306-01 Renal catecholamines– Pathophysiology of hypertension (dogs)
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)
** R23HL-22747-01 Cardiodynamics and hypertension under cerebellar control (dogs)
** R01HL-23201-01 Mechanisms of hypertension (human, rats)
** R01HL-23600-01 Ions, water, and hypertension (human, dogs, rats)

CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), PROSTAGLANDINS-ASSOCIATED

SEE ALSO FATTY ACIDS, UNSATURATED FATTY ACIDS, PROSTAGLANDINS
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
P50HL-14192-08 0003 Specialized center of research in hypertension - Prostaglandins as mediators of renin secretion (human, dog)
** R01HL-14397-07 Hypertension–Angiotensin and prostaglandin pharmacology (animals)
R01HL-15447-06 Vascular role of prostaglandin and cyclic nucleotides (rats)
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
** R01HL-18875-03 Angiotension, prostaglandins, pressure and the kidney (rats)
** R01HL-19229-02 Prostaglandins and hypertension (human, rats, dogs, rabbits)
** R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)
** R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
** R23HL-22438-01 The etiology of genetic hypertension (rats)

CARDIOVASCULAR DISORDERS, HYPERVOLEMIA

P01HL-06835-17 0043 Cardiovascular disease - Left atrial receptor activity by the sympathetic nervous system (dogs)
P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
** P01HL-06835-17 0051 Cardiovascular disease - Cardiopulmonary volume in hypertension (human)
P01HL-11678-11 0001 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (rats, dogs)

CARDIOVASCULAR DISORDERS, HYPOTENSION

SEE ALSO NEUROLOGIC MANIFESTATIONS, SYNCOPE
** R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
R01HL-09315-15 Coronary insufficiency and myocardial revascularization (human, dogs)
P01HL-11678-11 0043 Cardiovascular dynamics and their control - Basic mechanisms of circulatory shock (dog)
R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-13888-15 Regulation of respiration
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
R01HL-18947-02 Indirect mean arterial pressure (mammals)
** P50HL-19190-02 0008 Pulmonary SCOR–Pathophysiology, management of IRDS - Hemodynamics and gas exchange–Determinants of hypotension (human, infant)
R01HL-21817-01 Catecholamines, blood pressure and circulation
** R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
R01HL-22201-01 Pharmacology and chemistry of nudibranch toxins (guinea pigs, rats, mice)
** R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)
R01HL-23653-01 Protection of the ischemic myocardium (dogs)

CARDIOVASCULAR DISORDERS, HYPOTENSION POSTURAL

SEE ALSO CONGENITAL ABNORMALITIES, NEUROLOGICAL, DYSAUTONOMIA FAMILIAL
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
** P01HL-14388-07 0184 Regulation of the circulation in pathological states - Vestibular reflexes in control of circulation (human)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
** P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
P01HL-14388-07 0232 Regulation of the circulation in pathological states - Idiopathic cyclic edema
** P50HL-18318-03 0011 Pathogenesis and complications of hypertension - Adrenergic function–Renin and mineralocorticoid activity (human)
P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
R01HL-20124-02 Coronary risk factors (human)
R01HL-20439-02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)
R01HL-22051-01 Role of angiotensin II in vasopressin release (human)
R01HL-22581-02 Neurocirculatory control in diabetes mellitus (human)

CARDIOVASCULAR DISORDERS, HYPOVOLEMIA

SEE ALSO CARDIOVASCULAR DISORDERS, HEMORRAGIC SHOCK
SEE ALSO CARDIOVASCULAR DISORDERS, ISCHEMIA
P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
P01HL-12738-10 0129 Physiologic pharmacology and its clinical applications - Receptor specificities and metabolism of vasopressin analogs
R01HL-13341-06 Lymph–An indication of splanchnic tissue respiration (dogs, human, rats)
R01HL-17091-05 Anesthetics and microvascular response to hemorrhage (rats)
R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
P50HL-19185-02 0006 Pulmonary SCOR–Neonatal respiratory distress syndromes - Evaluation of risk factors in neonatal respiratory distress (human, sheep)
R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)
R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)

CARDIOVASCULAR DISORDERS, INFARCTION

SEE ALSO CARDIOVASCULAR DISORDERS, ARTERIAL OCCLUSIONS
SEE ALSO CARDIOVASCULAR DISORDERS, VENOUS OCCLUSIONS
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
R01HL-18080-03 Extrinsic control of intestinal microcirculation (dogs)
R01HL-20179-02 Epidemiology of sudden cardiac death among women
R01HL-22329-01 Active prosthetic myocardium–Effects on LV function (dogs)

CARDIOVASCULAR DISORDERS, ISCHEMIA

SEE ALSO BLOOD PROTEINS DISORDERS, HYPERVISCOSITY SYNDROME
SEE ALSO CARDIOVASCULAR DISORDERS, ARTERIAL OCCLUSIONS
SEE ALSO CARDIOVASCULAR DISORDERS, HYPOVOLEMIA
SEE ALSO CARDIOVASCULAR FUNCTION, BLOOD FLOW, REACTIVE HYPEREMIA
SEE ALSO CEREBROVASCULAR DISORDERS, BRAIN ISCHEMIA AND HYPOXIA
SEE ALSO GASTROINTESTINAL CIRCULATORY DISORDERS, CIRCULATORY INSUFFICIENCY
SEE ALSO HEART DISORDERS, CORONARY, MYOCARDIAL ISCHEMIA AND HYPOXIA
SEE ALSO KIDNEY-CIRCULATORY DISORDERS, RENAL ISCHEMIA AND HYPOXIA
SEE ALSO RESPIRATORY CIRCULATORY DISORDERS, PULMONARY ISCHEMIA AND HYPOXIA
SEE ALSO SKELETAL DISORDERS, BONE NECROSIS ISCHEMIC
P01HL-08682-15 0019 Regulation of the cardiovascular system - Hepatic immunophysiology and host-defense in shock (rat, dog, human)
P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)
R01HL-14148-07 0009 The regional circulations - Myocardial circulation in hypertension and atherosclerosis (human)
P60HL-15168-07 0005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)
R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
P01HL-17421-05 0002 Regulation and exchange in the microcirculation - Metabolic and myogenic blood flow regulation in microcirculation (animals)
R01HL-17739-04 Acute myocardial infarct scintigraphy (human, dogs, rats)
R01HL-17944-03 Studies in lung preservation (dogs)
R01HL-18097-04 Pathogenesis of acute renal failure (rats)
R01HL-18328-03 Hemoglobin function and tissue oxygenation (human, dogs)
R01HL-18984-01 P50 effect on exercise limit in stable angina (human)
R01HL-19406-03 Grading of atherosclerosis by CW doppler ultrasound (human, dogs)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-20869-01 Microvascular responses to ultrasound
** R23HL-21151-02 Ischemic myocardium–Delivery of blood flow and drugs (dogs)
R01HL-21172-02 Regional oxygen consumption of heart and other organs (animals)
R01HL-21179-01 Volume regulation–Role of the membrane potential (amphiuma)
** R01HL-21843-01 Ischemia, diabetes and the microcirculation (rats, cats, hamsters)
R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
R01HL-22741-01 Arteriovenous connections in extremity revascularization (dogs)
** R01HL-23128-01 Cardiac contractility–Ischemia and hypoxia (rabbits, rats)

CARDIOVASCULAR DISORDERS, PERIPHERAL VASCULAR DISORDERS

SEE ALSO CARDIOVASCULAR DISORDERS, RAYNAUD'S DISEASE AND PHENOMENON
SEE ALSO CARDIOVASCULAR DISORDERS, THROMBOPHLEBITIS
SEE ALSO CARDIOVASCULAR DISORDERS, VARICOSE ULCER
P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
M P01HL-07293-17 Non-invasive cardiovascular measurements
P01HL-07293-17 0044 Non-invasive cardiovascular measurements - Cardiac duplex scanner
** P01HL-07293-17 0055 Non-invasive cardiovascular measurements - Peripheral vascular transducer position locating system
R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
P50HL-14230-07 0097 A/S SCOR–Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)
R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)
R01HL-17341-03 Practical total synthesis of prostaglandins
R01HL-17407-05 Peripheral circulation and fluid balance (fish, mammals, human)
R01HL-17628-03 Pulsatile pressure-flow dynamics (dogs)
R01HL-17970-04 Vascular effects of inhibitory behavioral adaptations (dogs)
P50HL-18323-04 0042 SCOR hypertension center - Blood viscosity and blood volume in hypertensive disease (human, dog)
** R01HL-18977-03 Non-invasive diagnosis of peripheral arterial disease (human, dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-19190-02 0008 Pulmonary SCOR-Pathophysiology, managamant of IROS - Hemodynamics and ges exchenge-Determinants ot hypotension (human, intant)
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
R01HL-19275-03 Characterization of collaterel blood vessels (dogs)
R01HL-19287-03 The antihypertensive function of the ranal medulla (human, rats, rebbits)
R01HL-20177-02 Effects of erythrocyte detormability on tissue parfusion (rats)
R01HL-20400-03 Diebetic neuropethy and peripheraf vascular diseases (human, hamsters)
** R01HL-20522-03 Peripheral arterial diseese in the diabetic (human)
** R01HL-20564-02 Pathogenesis of peripherel arterial disease (rats, rabbits)
R01HL-20898-02 Ultresonic evaluation in direct arterial surgery (models, cattle, human)
** R01HL-21034-01 Compensatory responses to arteriel occlusion (dogs)
R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
** R01HL-21572-01 Natural history of the postphlebitic syndrome
R01HL-22474-01 Cholesterol metebolism and atherosclerosis (rats, human, rebbits)
R01HL-22567-01 Velidetion of a cholesterol absorption method in man
** R01HL-22741-01 Arteriovenous connections in extremity revescularizetion (dogs)
R01HL-22852-01 Diegnostic techniques in venous thromboembolism (human)
R01HL-22893-01 Evaluating arteriel diseese by velocity-weve analysis (dogs, human)

CARDIOVASCULAR DISORDERS, RAYNAUD'S DISEASE AND PHENOMENON

R01HL-10009-13 Regional lung function in man
** R01HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
** R01HL-21323-02 Reynaud's diseese and temperature self-regulation (humen)
** R01HL-22547-01 Behavioral treetment of Raynaud's disease (human)

CARDIOVASCULAR DISORDERS, THROMBOPHLEBITIS

** R01HL-17974-03 External pneumatic compression in deep venous thrombosis (human)
** P01HL-18576-03 0013 Thrombosis research program project - Eerly warning end monitoring test systems in thrombotic disease (human)
R01HL-18738-02 Prevention of postoperative venous thrombi (human, cattle)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
** R01HL-21572-01 Natural history ot the postphlebitic syndrome

CARDIOVASCULAR DISORDERS, THROMBOSIS

SEE ALSO BLOOD COAGULATION DISORDERS, INTRAVASCULAR COAGULATION DISSEMINATED
SEE ALSO BLOOD COAGULATION TESTS, THROMBIC INDEX*
SEE ALSO CARDIOVASCULAR DISORDERS, EMBOLISM, THROMBOEMBOLISM
SEE ALSO CEREBROVASCULAR DISORDERS, CEREBRAL OCCLUSIONS AND THROMBOSIS
SEE ALSO HEART DISORDERS, CORONARY OCCLUSIONS AND THROMBOSIS
N01HI-32926-10 Analysis of lipoproteins (animals)
R01HL-01661-27 Hemostatic mechanisms (human)
R01HL-01803-23 0011 Arteriosclerosis, glomerulonephritis, rheumatic tever - Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
** R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
** P01HL-06835-17 0027 Cardiovascular disease - Studies in thrombosis-cross-linking of fibrinogen (human)
** P01HL-06835-17 0028 Cardiovascular disease - Studies in thrombosis-fibrinogen in fibrin transport (human)
R01HL-07379-13 Structure and function of fibrinogen (human)
** R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)
** R01HL-10582-12 Thrombosis and hemostasis–Analysis, methods and standards (human, cattle, venom)
M P01HL-11414-11 Thrombosis and atherosclerosis program
** P01HL-11414-11 0004 Thrombosis and atherosclerosis program - Platelet function and nonthrombogenic surfaces (human)
** P01HL-11414-11 0034 Thrombosis and atherosclerosis program - Servo simulation–Experimental myocardial infarction (dogs)
** P01HL-11414-11 0037 Thrombosis and atherosclerosis program - Vascular intimal injury and healing (rabbits, rats)
** R01HL-11775-11 Platelet mechanisms in disease (human, primates)
R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
P01HL 13108-09 0003 Clinicet heart transplantation Endomyocerdiel biopsy pathology
R01HL 13198-21 Blood coagulation-Physico-chemical properties (human, cettle)
M P50HL 14147-08 Specialized center of research in thiombosis
** P50HL-14147-08 0001 Spacialized center ot research in thrombosis - Role ot aspirin, other anti-platelet agents in pletelet function (rat, human)
** P50HL 14147-08 0003 Spacialized center ol research in thrombosis - Surface thrombogenicity end phospholipid vesicle physical properties
** P50HL-14147-08 0006 Specialized center ot reseerch in thrombosis - Clearance machanisms of coegulation moieties (human, rabbits, rodents)
** P50HL-14147-08 0007 Specialized center of reseerch in thrombosis - Radioactiva tracers in recognition of intravesculer coaguletion (human, dogs)
P50HL-14147-08 0012 Specialized center of rasearch in thrombosis - Tissue culture study of erterial cells (humen, hamster)
P50HL-14147-08 0013 Specielized center of reseerch in thrombosis - Methemeticel models of blood coeguletion kinetics
P50HL-14147-08 0015 Specialized center of research in thrombosis - Charge related properties of phospholipid surfaces in monolayers and vesicles
** P50HL-14147-08 0016 Specielized center of reseerch in thrombosis - Nucleer medicine core laboratory (human, dogs, rets, rebbits)
** P50HL-14147-08 0017 Specialized center ot reseerch in thrombosis - Core coaguletion laboretory (humen)
** P50HL-14147-08 0018 Specialized center of reseerch in thrombosis - Biochemical aspects of pletelet function in thrombosis end cell growth (humen)
M P50HL-14217-08 Specialized center of reseerch in thrombosis
** P50HL-14217-08 0048 Specialized center of reseerch in thrombosis - Fibrinolysis section–Structurel studies (human, animal)
** P50HL-14217-08 0049 Specialized center of research in thrombosis - Fibrinolysis section–Clinical studies
** P50HL-14217-08 0050 Specialized center of research in thrombosis - Electron microscopy section (dogs)
** P50HL-14217-08 0051 Specielized center of research in thrombosis - Microcirculation section (bat, hemster)
** P50HL-14217-08 0052 Specielized center ot research in thrombosis - Redioisotope nucleer medicine section (human, dog)
** P50HL-14217-08 0054 Specielized center of research in thrombosis - Coegulation section--Pletelet eggregation (human, pig, rabbit, dog)
** P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section–Platelet coagulant activity (human)
P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology–Platelet biochemistry (human, animal)
** P50HL-14217-08 0063 Specialized center of research in thrombosis - Special clinical studies laboratory
M P50HL-14230-07 A/S SCOR–Lipids, atherosclerosis and thrombosis
P50HL-14230-07 0094 A/S SCOR–Lipids, atherosclerosis and thrombosis - Studies of atherosclerosis and regression (monkeys)
P50HL-14230-07 0095 A/S SCOR–Lipids, atherosclerosis and thrombosis - Blood platelet adherence to endothelial smooth muscle cells, fibroblast (human)
P50HL-14230-07 0096 A/S SCOR--Lipids, atherosclerosis and thrombosis - Ultrastructural studies of endothelial cells (human)
** P50HL-14230-07 0097 A/S SCOR–Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)
P50HL-14236-05 0003 Prevention of premature arteriosclerosis - Intravascular clotting in patients with hyperlipidemia
R01HL-14344-07 Platelet tunction and adenine nucleotide metabolism (human)
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
** R01HL-14697-07 Role of platelet membranes in hemostasis (human)
** R01HL-14739-06 The role of leukocytes in thrombotic disease (human, dogs)
R01HL-14890-07 Platelet prostaglandins (human, rabbits)
R01HL-14992-07 Mechanism ot thrombin action (human)
P60HL-15160-07 0015 Center for sickle cell disease - Lung function abnormalities in sickle cell hemoglobinopathies (human)
** R01HL-15226-06 Interaction of blood cells with fibrinogen and fibrin (human, animals)
R01HL-15474-06 Structure and function of the antihemophilic factor (human, cattle)
M P01HL-15486-06 Studies on thrombosis
** P01HL-15486-06 0001 Studies on thrombosis - Studies on chemistry of fibrinogen (human, dogs)
** P01HL-15486-06 0002 Studies on thrombosis - Characterization of antisera to fibrinopeptide B (human, rabbits)
** P01HL 15486-06 0003 Studies on thrombosis Mechanism and prevention of tibrinopeptide B degradation (human)
** P01ttl 15486-06 0004 Studies on thrombosis Thrombosis, intravascualr coagulation, platelet aggregation (dogs)
** P01Ilt 15486-06 0005 Studies on thrombosis Isolation and characterization ot PF4 antigens (rabbits)
** P01HL 15486-06 0006 Studies on thrombosis Clinical investigetion unit
M P01HL 15596-05 Coaguletion, tibrinolysis, hemostasis and hepatitis
** P01HL 15596-05 0001 Coegulation, tibrinolysis, hemostasis and hepatitis - Detibrination (human)
** P01HL-15596-05 0002 Coegulation, tibrinolysis, hemostasis and hepatitis Radioimmunoassay ol tibrinogen and tibrin derivetives (human)
** P01HL-15596-05 0018 Coaguletion, tibrinolysis, hemostasis and hepatitis - Increased plesme lipids on blood coeguletion and thrombosis (human, enimals)
R01HL-15615-06 Structure-function studies of human factor VIII/vWf
R01HL 15616-04 Pletelet membrane proteins in eggregation (humen)
R01HL-16154-05 Membrene lung perfusion tor acute respiratory feilure (sheep, beboons)
** P01HL-16387-04 0006 The blood vessel end thrombogenesis - Mechanism of delayed vessel graft failure (dogs, rebbits)
P01HL-16411-04 0003 Blood systems in coegulation end vessel diseese - Moleculer events involving the late steges of coeguletion (rabbits)
R01HL-16633-04 Chemistry and biology of fector IX ectivator (human, mice, rets)
P01HL-17430-05 0005 Control of coeguletion - The activetion of prothrombin (humen, cettle, dogs)
P01HL-17430-05 0006 Control of coegulation - Activetion fragments of prothrombin in vitro end in vivo (humen, dogs, cattle)
** R01HL-17513-04 Role of PF-4 in detecting and promoting thrombosis (humen, primetes)
R01HL-17729-04 Stimulus-response coupling in pletelets (humen)
M P01HL-17812-04 Thrombosis end pfesma proteins
** P01HL-17812-04 0001 Thrombosis and plesme proteins - Thrombosis end plasma proteins (cattle, guinea pigs)
** P01HL-17812-04 0002 Thrombosis end plesme proteins - Activetors of fibrinolysis–Synthesis and degredation (human, cettle)
** P01HL-17812-04 0004 Thrombosis end plesme proteins - Serum-platelet interection (human)
** P01HL-17812-04 0005 Thrombosis and plasma proteins - In vitro systems of normal platelets, white cells, sera (human)
** P01HL-17812-04 0007 Thrombosis and plasma proteins - Blood components–Response to endotoxin (dogs, baboons)
R01HL-17964-04 The alternate pathway tor fibrinolysis (human)
R01HL-18012-04 Cellular detects in nocturnal hemoglobinuria (human)
R01HL-18030-04 The role of contractile proteins in platelets (human, rabbits)
** R01HL-18321-03 Fluid shear or magnetic alignment of blood components (human)
R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
M P01HL-18576-03 Thrombosis research program project
** P01HL-18576-03 0001 Thrombosis research program project - Platelet damage from physical torces and artificial surfaces (human)
** P01HL-18576-03 0002 Thrombosis research program project - Molecular basis of fibrin tormation (human, cattle, lamprey)
** P01HL-18576-03 0003 Thrombosis research program project - Biocompatible materials
** P01HL-18576-03 0004 Thrombosis research program project - Mechanism and control of collagen-platelet interaction
** P01HL-18576-03 0005 Thrombosis research program project - Molecular basis of von Willebrand's disease and hemophilia (human, cattle)
** P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
** P01HL-18576-03 0009 Thrombosis research program project - Biology of factor VII (human, rabbits, cattle)
** P01HL-18576-03 0010 Thrombosis research program project - Evaluation of non-thrombogenic materials (cattle)
** P01HL-18576-03 0011 Thrombosis research program project - Proteolysis and platelet function (human, cattle, rabbits)
** P01HL-18576-03 0012 Thrombosis research program project - Synthetic anticoagulant and thrombolytic agents (dogs)
** P01HL-18576-03 0013 Thrombosis research program project - Early warning and monitoring test systems in thrombotic diseese (human)
** P01HL-18576-03 0014 Thrombosis research program project - Immunology core
** P01HL-18576-03 0015 Thrombosis research program project - Major equipment core

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-18576-03 0016 Thrombosis research program project Radiochemistry core
R01HL-18584-03 Effects of physical forces on platelets (human)
** R01HL-18586-03 Role of platelet lipids in hemostasis and thrombosis (human)
P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
R01HL-18650-03 Platelet collagen interaction (human)
R01HL-18815-03 Surgical vascular disorders (human, dogs)
M P01HL-18827-02 Platelet vessel wall interactions in thrombogenesis
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
** P01HL-18827-02 0002 Platelet vessel wall interactions in thrombogenesis - Interactions of vessel wall macromolecules with factor XII (human, rats)
** P01HL-18827-02 0003 Platelet vessel wall interactions in thrombogenesis - Tumor cell and platelets in thrombogenesis and metastasis (human, animals)
** P01HL-18827-02 0005 Platelet vessel wall interactions in thrombogenesis - Platelet vessel wall interactions in thrombogenesis (human)
M P50HL-18828-03 Specialized center of research in thrombosis
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
** P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
** P50HL-18828-03 0008 Specialized center of research in thrombosis - Biochemistry, physiology--Platelets and subcellular platelet particles (human)
R01HL-19105-02 Detection and adherence of fibrin monomer complexes (human)
** R01HL-19131-04 Hypercoagulability and assays for its protection (human)
R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
R01HL-19225-02 0004 Types and mechanims of pulmonary hypertension - Structural changes in human pulmonary circulation (human, animals)
** R01HL-19267-02 Serial comparative study of Von Willebrand's disease (human)
** R01HL-19350-02 Prevention of thrombosis by applied electric fields (sheep)
R01HL-19996-02 Role of membrane proteins in platelet function (human, rabbits)
R01HL-20079-02 0001 Thromboresistant material - Active and passive thromboresistant surfaces
R01HL-20079-02 0002 Thromboresistant material - Thromboresistant materials (sheep)
R01HL-20079-02 0003 Thromboresistant material - Blood surface interactions (human, cattle)
R01HL-20313-02 Surface-induced thrombosis--Modification of albumin variants (human, goat)
** R01HL-20337-02 Thromboembolic diseases (human)
** R01HL-20563-02 Restoring microcirculation after platelet aggregation
R01HL-20956-02 Early events following stimulation of human platelets
R01HL-21001-01 Protein and thrombus deposition on vascular grafts
P50HL-21006-02 0006 Specialized center of research in arteriosclerosis - Intravascular coagulation and thrombosis in hyperlipidemia (human)
R01HL-21217-01 Ion and 5-hydroxytryptamine transport by platelets
** R01HL-21273-02 Fibrinogen labeling with radiometals
R01HL-21379-01 Structure of factor VIII-Von Willebrand protein (human)
R01HL-21403-02 Blood clotting kinetics studied by radioimmunoassay (human)
R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
R23HL-21490-02 Studies of enzymes in human platelet membranes
** R01HL-22110-02 Healing complications in vascular grafting (dogs)
** R01HL-22119-01 Biochemistry of platelet function in thrombosis and cell growth (rabbits)
M P01HL-22163-01 Surface thrombogenesis--Mechanisms and prevention
** P01HL-22163-01 0001 Surface thrombogenesis--Mechanisms and prevention - Initial blood protein and platelet interactions with biomaterials (baboons)
** P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)
** P01HL-22163-01 0003 Surface thrombogenesis--Mechanisms and prevention - In vivo mechanisms of biomaterial thrombogenesis and its prevention (baboons)
** P01HL-22163-01 9001 Surface thrombogenesis--Mechanisms and prevention - Polymers for studing blood-material interactions core
R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease
** R01HL-22445-01 Platelet inhibitors--Effect on coronary bypass grafts (dogs)
R01HL-22455-01 Platelet concentration in the marginal layer (dogs, human)
R01HL-22502-01 Role of phosphoinositides in human platelet secretion
** R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
** R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
M P01HL-22602-01 Pathophysiology of the endothelium
** P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
R01HL-22627-01 An inhibitor of platelet adhesion to artificial organs (human)
M P01HL-22633-01 Cellular and molecular biology of lipoprotein metabolism
** P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)
** R01HL-22738-01 Role of bioelectric potentials in platelet adherence (bats, rats, hamsters)
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
R01HL-22888-01 Prosthetic valve endocarditis--Etiology and therapy (dogs)
N01HV-52907-04 Interactions of platelets with collagens (human, mammals)
N01HV-62911-04 Vena cava ring tests of biomaterials in dogs

CARDIOVASCULAR DISORDERS, THROMBOSIS, VENOUS

SEE ALSO CARDIOVASCULAR DISORDERS, THROMBOPHLEBITIS
P01HL-11414-11 0004 Thrombosis and atherosclerosis program - Platelet function and nonthrombogenic surfaces (human)
P01HL-11414-11 0037 Thrombosis and atherosclerosis program - Vascular intimal injury and healing (rabbits, rats)
P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
P50HL-14147-08 0016 Specialized center of research in thrombosis - Nuclear medicine core laboratory (human, dogs, rats, rabbits)
P50HL-14187-07 0008 Pulmonary SCDR--Chemical mediators in pulmonary vascular responses - Pulmonary thromboembolism (dogs, human)
P50HL-14217-08 0048 Specialized center of research in thrombosis - Fibrinolysis section--Structural studies (human, animal)
P50HL-14217-08 0049 Specialized center of research in thrombosis - Fibrinolysis section--Clinical studies
P50HL-14217-08 0050 Specialized center of research in thrombosis - Electron microscopy section (dogs)
P50HL-14217-08 0052 Specialized center of research in thrombosis - Radioisotope nuclear medicine section (human, dog)
P50HL-14217-08 0055 Specialized center of research in thrombosis - Coagulation section--Platelet coagulant activity (human)
R01HL-20337-02 Thromboembolic diseases (human)
** R01HL-21572-01 Natural history of the postphlebitic syndrome
R01HL-22852-01 Diagnostic techniques in venous thromboembolism (human)
R01HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)

CARDIOVASCULAR DISORDERS, VARICOSE ULCER

** P60HL-23282-01 0003 Comprehensive hospital/community sickle cell center - Treatment of sickle cell ulcers with physical therapy and vitamin E (human)

CARDIOVASCULAR DISORDERS, VASCULAR DISORDERS (GENERAL)

SEE ALSO CEREBROVASCULAR DISORDERS
P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Dirofilaria immitis in the dog
** P01HL-11310-12 0101 Mechanisms of cardiovascular disease - Molecular pathogenesis of vascular disease
R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
** R01HL-12557-09 Effects of steroids and pregnancy on arteries and veins (guinea pigs)
** R01HL-12561-11 Cardiovascular studies on copper deficiency (swine)
** R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
** R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
** R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
R01HL-17747-04 Endothelial injury and regeneration (rats)
R01HL-18085-03 Neural factors in atherogenesis (squirrel monkeys)
R01HL-18152-03 Vascular injury and atherosclerosis (mice, coxsackievirus)
** R01HL-18815-03 Surgical vascular disorders (human, dogs)
** R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
R01HL-19677-03 Venous structure and function (dogs)
R01HL-20054-02 Cultured blood vessel cells--Pathophysiology (human, animals)
** R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)
R01HL-20206-02 Carbohydrates-nucleotides and adrenergic interactions (rabbits, cats, rats)
** R01HL-20835-02 Signal analysis of turbulence study in blood
R23HL-21320-02 Cyclic nucleotide metabolism in vascular endothelium
R23HL-21327-02 Molecular mechanisms of chemical myocardiopathies (rats)
** R23HL-21950-01 Endothelial cell mechanisms in vascular disease (human)
R23HL-22075-01 Metabolism of arachidonic acid in blood vessels (chickens, mammals)
** R01HL-22121-02 Dyslipoproteinemia in diabetes and vascular disease (human)
R01HL-22604-01 Non-invasive system for arteriosclerosis studies (human)
** R01HL-22784-01 Ductus arteriosus closure--An arterial lesion model (rabbits)
** R01HL-22939-01 Human kinin and fibrinolytic systems and renal disease (human)
N01HV-12157-14 Lipid research clinic (human)

CARDIOVASCULAR DISORDERS, VASODILATATION

SEE ALSO CARDIOVASCULAR DISORDERS, ANEURYSM
SEE ALSO CAROIDVASCULAR OISDROERS, VARICOSE ULCER
SEE ALSO GASTROINTESTINAL CIRCULATORY OISOROERS, ESOPHAGEAL VARICES
SEE ALSO METABOLIC DISORDERS INBORN, ANGIONEUROTIC EOEMA (HEREDITARY)
P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
P01HL-14388-07 0163 Regulation of the circulation in pathological states - Adrenergic receptors in coronary vessels (dogs)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
** P01HL-14388-07 0231 Regulation of the circulation in pathological states - Mechansim of cutaneous vasodilatation in Paget's disease of bone
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
P01HL-16910-05 0006 Regulation of the peripheral circulation - Regulation of blood flow distribution (baboons, dogs)
P60HL-17269-04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat)
R01HL-17628-03 Pulsatile pressure-flow dynamics (dogs)
R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
R01HL-17903-03 Regional circulatory responses to hypoxia (rats, cats, rabbits)
R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
R01HL-18492-03 Measurement of regional coronary flow reserve (human, dogs)
P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
R01HL-20598-03 The coronary vascular response to ischemia (dogs, pigs)
R01HL-20827-02 Effects of hypertrophy on the coronary circulation (dogs)
R23HL-21434-02 Intrinsic control of coronary blood flow by chemicals (guinea pigs)
R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)
R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis
R01HL-22952-01 Validation of quantitative coronary arteriography (dogs)
** R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)
R01HL-23600-01 Ions, water, and hypertension (human, dogs, rats)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

CARDIOVASCULAR DISORDERS, VASOSPASM

R01HL 12775-08 Cerebral microcirculation (mice)
P01HL 13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
R01HL 15805-06 Cerebral arterial tone and reactivity (rabbits)
P50HL 17646-04 0014 Study of ischemic heart disease - Progression of ischemic injury in conscious dogs (also rabbits)
P50HL 17682-04 0021 Study of ischemic heart disease - Prostaglandin biosynthesis in blood vessels from ischemic myocardium (rat, sheep)
R01HL 18932-03 Brain microcirculation observed in vivo after trauma (mice)
R13HL 20765-01 Eleventh Princeton Conference on Cerebrovascular Disease (new Jersey)
R01HL 20787-02 Thromboxanes and prostaglandins - Biochemical pharmacology (rabbits, human)
R01HL 21187-01 Potassium, norepinephrine, and coronary arterial tone (dogs)
R01HL-21323-02 Raynaud's disease and temperature self-regulation (human)
** R01HL 22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)

CARDIOVASCULAR DISORDERS, VENOUS OCCLUSIONS

SEE ALSO CARDIOVASCULAR DISORDERS, EMBOLISM
SEE ALSO CARDIOVASCULAR DISORDERS, INFARCTION
SEE ALSO CARDIOVASCULAR DISORDERS, THROMBOPHLEBITIS
SEE ALSO CARDIOVASCULAR DISORDERS, THROMBOSIS, VENOUS
SEE ALSO CARDIOVASCULAR SURGERY, VASCULAR OCCLUSION THERAPEUTIC

R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
P01HL-16910-05 0001 Regulation of the peripheral circulation - Quantitative studies of microcirculatory control (bats)
R01HL-20835-02 Signal analysis of turbulence study in blood

CARDIOVASCULAR DISORDERS CHEMOTHERAPY

SEE ALSO CARDIOVASCULAR AGENTS
SEE ALSO CARDIOVASCULAR PHARMACOLOGY
SEE ALSO HEART DISORDERS CHEMOTHERAPY

R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
R01HL-03181-21 0027 Hemodynamics as applied to surgical problems - Hemodynamic studies of the GI tract (dogs)
P01HL-04664-18 0013 Cardiovascular and lung dynamics - Ventricular function in coronary disease using NTG and ventriculograms (human)
** R01HL-05875-18 Pathologic metabolic and physiologic studies of heart (human, dogs, cats)
P01HL-06285-18 0154 Cardiovascular-respiratory physiology and biochemistry - Function and viability of critically ischemic myocardium (dogs)
P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
P01HL-06835-17 0046 Cardiovascular disease - Renin activity during salt depletion in essential hypertension (human)
P01HL-06835-17 0053 Cardiovascular disease - Vasodilating drugs (human)
** P01HL-06835-17 0057 Cardiovascular disease - Studies on cardiac hypertrophy
P01HL-06835-17 0060 Cardiovascular disease - Ventricular performance experimental models of arterial hypertension (rats, dogs)
** R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-10711-12 Cooperative study of treatment of hypertension (human)
P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension
R01HL-11775-11 Platelet mechanisms in disease (human, primates)
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
R01HL-13193-09 Pathophysiology of post-traumatic and shock states (rodents, dogs)
P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
R01HL-13936-06 Microvascular responses in hypertension (human, rats)
R01HL-14127-16 Methemoglobinemia and antihypertensive drugs (cats, mice, rats)
P50HL-14187-07 0005 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary hypertension and cardiac function (dogs, human)
P50HL 14187-07 0008 Pulmonary SCOR Chemical mediators in pulmonary vascular responses Pulmonary thromboembolism (dogs, human)
** P50HL 14192-08 0001 Specialized center of research in hypertension Surgical and medical treatment of renovascular hypertension (human)
P50HL 14192-08 0002 Specialized center of research in hypertension Hypertensive patients with renal artery stenosis
** P50HL 14197-07 0006 Support for center of research on arteriosclerosis Diets and drugs affecting lipid metabolism (human)
** P50HL 14217-08 0049 Specialized center of research in thrombosis Fibrinolysis section-Clinical studies
M P50HL-14236-05 Prevention of premature arteriosclerosis
P50HL 14236-05 0002 Prevention of premature arteriosclerosis Myocardial blood flow in patients with coronary artherosclerosis
** P50HL 14236-05 0009 Prevention of premature arteriosclerosis - Clinical studies on cholesterol metabolism (human)
P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
P01HL-14388-07 0220 Regulation of the circulation in pathological states Pharmacology of the coronary circulation in man
P01HL 14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
R01HL-14944-07 Renal vascular reactivity in hypertensive patient
P50HL-15062-07 0018 Study of lipoproteins, artery wall, and atherosclerosis - Reversal of atherosclerosis in monkeys
** R01HL-15374-03 Cooperative study of drugs and coronary heart disease (human)
R01HL-15476-05 Mechanism and control of sterol biosynthesis (rats)
** R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)
R01HL-15607-06 Physiological control of splanchnic circulation (dogs)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
** R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)
** R01HL-16587-04 Cholesterol binding saponins and atherosclerosis (monkeys)
R01HL-17335-05 Contractile properties of hypertensive arterioles (rats)
R01HL-17341-03 Practical total synthesis of prostaglandins
P50HL-17648-04 0011 Study of ischemic heart disease - Surgical treatment for acute myocardial ischemia (human, dogs)
P50HL-17651-04 0043 Ischemic heart disease specialized center of research - Gradual reperfusion following acute coronary occlusion (dog)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
R01HL-18002-03 Circulatory shock, trauma and RE-system function (rats)
R01HL-18019-04 The endocrine kidney in hypertension (mice)
R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
** R01HL-18175-03 Drug taking for hypertension in a rural community
R01HL-18292-04 Vasodilation and microvascular oxygen delivery (dog, hamster)
P50HL-18318-03 0001 Pathogenesis and complications of hypertension - Core clinical program
P50HL-18318-03 0011 Pathogenesis and complications of hypertension - Adrenergic function--Renin and mineralocorticoid activity (human)
P50HL-18318-03 0014 Pathogenesis and complications of hypertension - Arterial metabolism and atherogenesis (rat, rabbit)
M P50HL-18323-04 SCOR hypertension center
P50HL-18323-04 0012 SCOR hypertension center - Renin as a risk factor (human)
P50HL-18323-04 0035 SCOR hypertension center - Control of high blood pressure at the work site
** P50HL-18323-04 0043 SCOR hypertension center - Pharmacology--Renin-aldosterone mechanisms in essential hypertension (human)
P50HL-18323-04 0045 SCOR hypertension center - Laboratory programs--Prorenin (human)
R01HL-18333-05 Thrombogenesis and hemostatic balance (rabbits, human)
R25HL 18414-03 Hypertension--Family strategies for patient adherence
R25HL 18418-03 Role of a supporting partner in adherence (human)
R25HL 18424-03 Blood pressure education in an industrial setting (human)
R01HL 18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
P01HL 18574-03 0006 Lipoprotein methodology and biomedical applications Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
** R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)
R01HL-18629-04 Influence of aging and hypertension on the myocardium (rats)
** P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-18738-02 Prevention of postoperative venous thrombi (human, cattle)
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
** P50HL-19362-02 0010 A/S SCOR Atherosclerosis in nonhuman primates - Antihypertensive therapy--Atherogenesis in experimental hypertension (baboon)
** R01HL-19568-03 Hypertension--Analysis of drug and behavioral therapies (human)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
** R01HL-20000-03 Iron overload in homozygous beta thalassemia (human)
R01HL-20218-02 Fibrinogen catabolism and intravascular coagulation (human)
R01HL-20244-02 he impact of hypertension information
R01HL-20245-01 The impact of hypertension information
R01HL-20247-01 The impact of hypertension information
R01HL-20248-01 The impact of hypertension information
R01HL-20262-02 Cardiac glycosides and the mechanism of the sodium-potassium pump
R01HL-20337-02 Thromboembolic diseases (human)
** R01HL-20455-03 Role of systemic hypertension on diabetic retinopathy (human)
R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
M P01HL-20552-02 The development and regression of cardiac hypertrophy
** P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
P01HL-20552-02 0003 The development and regression of cardiac hypertrophy - Muscle mechanics of the hypertrophied left ventricle (rats)
M R01HL-20572-02 Hemodynamic relations to metabolism in hypertension
R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood flow in hypertension (rats)
R01HL-20604-03 Sympathectomy--Cardiovascular and molecular pharmacology (animals)
** R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
** P01HL-20993-02 0004 Population dynamics of arterial cells in atherogenesis - Modifications of cholesterol balance related to arterial cell divisions (swine)
** P01HL-20993-02 0005 Population dynamics of arterial cells in atherogenesis - Drugs other than hypolipidemic drugs affecting atherosclerosis (swine, rabbits)
P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
R01HL-21105-02 Organ specific drugs--Cardiovascular and renal effects (dogs)
R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
R01HL-21476-02 Anticoagulant drug absorption interactions (rats)
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
R01HL-22216-02 Vascular mechanisms in renal hypertension (dogs)
R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease
R01HL-22288-01 Renin and precursors--Structure and function (mice)
R01HL-22298-02 Origins of hypertension (human)
R23HL-22309-01 Cardiovascular pharmacodyn[illegible] immature dogs
R23HL-22345-02 0002 Behavioral cardiovascular compliance strategies - Compliance with antihypertensive medication regimens (human)
R01HL-22445-01 Platelet inhibitors--Effect on coronary bypass grafts (dogs)
R01HL-22506-01 Hemodynamics of the clinical hypertensions
R01HL-22563-02 Prostaglandins, the kidney and hypertension (rats)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
** R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
** R01HL-22612-01 Stabilized prostacyclins to treat vascular disease
R01HL-22718-01 Cardiovascular drug interactions–Metabolism models (dogs)
R23HL-22882-01 Modulation by disease of effect of furosemide in man
N01HV-12156-10 Lipid research clinic
N01HV-12157-14 Lipid research clinic (human)
N01HV-12158-10 Establishment of a lipid research clinic
N01HV-12159-09 Lipid research clinic
N01HV-12160-15 Establishment of a lipid research clinic
** N01HV-12434-11 Therapy for hypertension in the general population
N01HV-12435-15 Therapy for hypertension in the general population (human)
** N01HV-12436-15 Hypertension therapy in the general population (human)
N01HV-12440-14 Therapy for hypertension in the general population (human)
N01HV-12442-14 Therapy for hypertension in the general population (human)
N01HV-22913-09 Lipid research clinic
N01HV-22914-08 Establishment of a lipid research clinic
** N01HV-22931-14 Therapy for hypertension in general population
** N01HV-22937-07 Therapy for hypertension in general population
** N01HV-22938-11 Therapy for hypertension in general population
N01HV-22939-12 Hypertension detection and follow-up program center
N01HV-22945-11 Cooperative hypertension detection and follow-up study (human)
** N01HV-22971-07 Prevention of coronary heart disease (human)
** N01HV-22976-07 Multiple risk factor intervention trial, prevention of coronary heart disease
N01HV-22977-08 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22979-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22981-10 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-32931-09 Establishment of a lipid research clinic center
** N01HV-33101-06 Development and conduct of a multiple risk factor intervention trial (human)
N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-33108-04 Prevention of coronary heart disease (human)
** N01HV-33109-04 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-33110-04 Prevention of coronary heart disease (human)
N01HV-42929-08 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42930-09 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42931-07 Risk factor intervention trail for the prevention of CHD (men)
N01HV-42932-05 Risk factor intervention trial for the prevention of CHD (human)
** N01HV-42933-09 Multiple risk factors in coronary heart disease (human)
N01HV-53015-09 Establishment of a lipid research clinic (human)
N01HV-62900-00 Study of breast cancer and reserpine use (human)
N01HV-72915-02 Therapy for hypertension in the general population
** N01HV-72953-04 Clinical center for propranolol heart trial
** N01HV-72961-03 Clinical center for propranolol heart trial
** N01HV-72979-01 Therapy to protect ischemic myocardium–Data Center
** N01HV-82915-01 Therapy for hypertension in the general population (human)

CARDIOVASCULAR DISORDERS DIAGNOSIS*

SEE ALSO CARDIOVASCULAR VISUALIZATION*
SEE ALSO CEREBROVASCULAR DISORDERS DIAGNOSIS (INCL EXAMS)*
SEE ALSO HEART DISORDERS DIAGNOSIS (INCL EXAMS)*
N01HI-02216-10 To develop biological flow NMR concept (human, mammals non human)
** R01HL-03181-21 0020 Hemodynamics as applied to surgical problems - Blood flow measurement–Cardiac output and regional flows (dogs)
M P01HL-04664-18 Cardiovascular and lung dynamics
P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
P01HL-04664-18 0007 Cardiovascular and lung dynamics - Development and application of ultrasound imaging techniques
P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
R01HL-05694-20 Functional pathology of cardiovascular disease (human)
P01HL-06285-18 0156 Cardiovascular-respiratory physiology and biochemistry - Myocardial performance following revascularization (human)
P01HL-06285-18 0157 Cardiovascular-respiratory physiology and biochemistry - Left ventricle outflow impedance analysis (human)
P01HL-06835-17 0014 Cardiovascular disease - Dietary induction of severe atherosclerosis and its prevention (dogs)
P01HL-06835-17 0015 Cardiovascular disease - Plasma cholesterol esterification in canine atherosclerosis
M P01HL-07293-17 Non-invasive cardiovascular measurements
P01HL-07293-17 0054 Non-invasive cardiovascular measurements - Detection of arterial occlusive disease (human)
** P01HL-07293-17 0055 Non-invasive cardiovascular measurements - Peripheral vascular transducer position locating system
P01HL-07293-17 0056 Non-invasive cardiovascular measurements - Peripheral vascular system software
P01HL-07293-17 0057 Non-invasive cardiovascular measurements - Peripheral vascular scanner engineering evaluation and error analysis (human)
P01HL-07293-17 0058 Non-invasive cardiovascular measurements - Peripheral duplex scanner physiologic evaluation
R01HL-07575-15 Analysis of time-coherent cardiovascular data
** R01HL-10160-13 Origins of atherosclerosis (human)
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
** R01HL-11717-09 Effect of stenotic obstructions on flow in arteries (dogs)
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
** R01HL-12715-10 Dynamic cardiovascular measurement using ultrasound
P01HL-13262-07 0024 Arterial wall in atherosclerosis - Serial ocular changes in arteriosclerosis and hypertension
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
P50HL-14138-05 0008 Center for research on atherosclerosis - Core lipid laboratory (human)
P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
** P50HL-14147-08 0017 Specialized center of research in thrombosis - Core coagulation laboratory (human)
R01HL-14148-07 0009 The regional circulations - Myocardial circulation in hypertension and atherosclerosis (human)
** P50HL-14159-08 0024 Specialized center of research in hypertension - Core resources (clinical, animal models)
** P50HL-14192-08 0005 Specialized center of research in hypertension - New techniques for recognition of renovascular hypertension (human, dogs)
P50HL-14217-08 0049 Specialized center of research in thrombosis - Fibrinolysis section–Clinical studies
** P50HL-14217-08 0052 Specialized center of research in thrombosis - Radioisotope nuclear medicine section (human, dog)
P50HL-14217-08 0063 Specialized center of research in thrombosis - Special clinical studies laboratory
P50HL-14236-05 0003 Prevention of premature arteriosclerosis - Intravascular clotting in patients with hyperlipidemia
** P01HL-14388-07 0194 Regulation of the circulation in pathological states - Dopamine-beta-hydroxylase localization and release in hypertension
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
P01HL-14388-07 0221 Regulation of the circulation in pathological states - Experimental myocardial infarction (dogs)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
P50HL-15103-07 0001 A/S SCOR–Early natural history of arteriosclerosis - Clinical research–Bogalusa heart study (children)
R01HL-15308-07 Assays for peptides of lipoproteins (human)
R01HL-17513-04 Role of PF-4 in detecting and promoting thrombosis (human, primates)
** R01HL-17578-04 Exercise performance in children with heart disease
** R01HL-17591-03 Development of electromagnetic rheoangiography (human, dogs)
** R01HL-17604-03 Wearable blood pressure and ECG recording system
R01HL-17702-04 Electro-optical dyes as probes of heart excitability
R01HL-17732-03 Peripheral venomotor control in thermal stress (human)
R01HL-17739-04 Acute myocardial infarct scintigraphy (human, dogs, rats)
** R01HL-17826-04 Oxygen delivery to tissue (rat, dog)
R01HL-18019-04 The endocrine kidney in hypertension (mice)
** R01HL-18144-03 Preprocessor system for cardiograms (human)
P50HL-18318-03 0001 Pathogenesis and complications of hypertension - Core clinical program
P50HL-18318-03 0003 Pathogenesis and complications of hypertension - Core biochemical laboratory
** P50HL-18323-04 0011 SCOR hypertension center - Endocrine profiling on a selected normal population (human)
P50HL-18323-04 0012 SCOR hypertension center - Renin as a risk factor (human)
P50HL-18323-04 0035 SCOR hypertension center - Control of high blood pressure at the work site
P50HL-18323-04 0037 SCOR hypertension center - Adrenocortical factors in childhood hypertension
R01HL-18456-03 Cardiovascular follow-up of hypertensive adolescents
P01HL-18576-03 0013 Thrombosis research program project - Early warning and monitoring test systems in thrombotic disease (human)
R01HL-18715-02 Hypertension incidence project (human)
R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
R01HL-18873-02 Early radiologic diagnosis of cardiac failure (monkey)
R01HL-18907-03 Objective evaluation early after MI and heart surgery (human)
** R01HL-18933-03 Energy output and efficiency of left ventricle (dog)
R01HL-18977-03 Non-invasive diagnosis of peripheral arterial disease (human, dogs)
R01HL-19038-02 Plethysmographic evaluation of carotid blood flow (human, rabbits, dogs)
R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
** R01HL-19251-03 An index of sympathetic activity in hypertension (rats)
** R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
R01HL-19341-03 Ultrasonic detection of the atherosclerotic plaque
** P50HL-19362-02 0011 A/S SCOR–Atherosclerosis in nonhuman primates - Chronic hypertension induced by operant conditioning techniques (baboon)
R01HL-19406-03 Grading of atherosclerosis by CW doppler ultrasound (human, dogs)
R01HL-19844-02 Behavioral control of essential hypertension (human)
R01HL-19930-03 A prospective study–Blood pressure in newborn twins
R01HL-20373-02 Cardiovascular aging in young men and women
** R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
** R01HL-20807-02 Detection of familial hypercholesterolemia (human)
R23HL-21151-02 Ischemic myocardium–Delivery of blood flow and drugs (dogs)
** R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
R01HL-21572-01 Natural history of the postphlebitic syndrome
** R01HL-21756-11 Vascular disease–Cytochemistry and ultrastructure (human, rats, mice, hamsters)
R23HL-21917-01 Adrenal steroids in adolescent and adult hypertension
R01HL-21971-01 Atherosclerotic disease and risk factors in twins (human)
R01HL-22212-01 Alameda county high blood pressure control program
R01HL-22255-01 The etiology/prevalence of peripheral arterial disease (human)
R01HL-22474-01 Cholesterol metabolism and atherosclerosis (rats, human, rabbits)
R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)
** R01HL-22604-01 Non-invasive system for arteriosclerosis studies (human)
** R01HL-22667-01 Mechanisms of baroreceptor adaptation in hypertension (dogs)
R23HL-22747-01 Cardiodynamics and hypertension under cerebellar control (dogs)
R01HL-22802-01 A rural mining community hypertension control project (human)
R01HL-22809-01 Coronary-prone behavior and cardiovascular reactivity (human)
** R01HL-22821-01 A routine screening analysis for myoglobinemia
** R01HL-22852-01 Diagnostic techniques in venous thromboembolism (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-22854-01 Non-invasive blood pressure measurement (rats)
R18HL-22934-01 Behavorial approaches to adolescent hypertension
R01HL-23201-01 Mechanisms of hypertension (human, rats)
R01HL-23983-01 Quantitative radiocardiography (human, dogs)
** N01HV-12156-10 Lipid research clinic
** N01HV-12157-14 Lipid research clinic (human)
** N01HV-12158-10 Establishment of a lipid research clinic
** N01HV-12159-09 Lipid research clinic
** N01HV-12160-15 Establishment of a lipid research clinic
N01HV-12434-11 Therapy for hypertension in the general population
N01HV-12436-15 Hypertension therapy in the general population (human)
N01HV-12442-14 Therapy for hypertension in the general population (human)
** N01HV-22913-09 Lipid research clinic
** N01HV-22914-08 Establishment of a lipid research clinic
** N01HV-22915-11 Establishment of lipid research clinic
** N01HV-22916-16 Establishment of a lipid research clinic
N01HV-22917-11 Lipid research clinic (human)
N01HV-22932-09 Establishment of a lipid research clinic
N01HV-22971-07 Prevention of coronary heart disease (human)
N01HV-22976-07 Multiple risk factor intervention trial, prevention of coronary heart disease
N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-32931-09 Establishment of a lipid research clinic center
** N01HV-32933-07 Hypertension detection and follow-up program central laboratory (human)
N01HV-33101-06 Development and conduct of a multiple risk factor intervention trial (human)
N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33108-04 Prevention of coronary heart disease (human)
** N01HV-33109-04 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33110-04 Prevention of coronary heart disease (human)
N01HV-42929-08 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42930-09 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42931-07 Risk factor intervention trail for the prevention of CHD (men)
** N01HV-52966-01 Development and evaluation of an ultrasonic imaging system (swine)
** N01HV-53015-09 Establishment of a lipid research clinic (human)
N01HV-62969-03 Cardiology patient simulator evaluation
** N01HV-72924-04 Non-invasive detection of atherosclerotic lesions (human, animals)
** N01HV-72925-04 Non-invasive detection of atherosclerotic lesions (human, monkeys, dogs)
N01HV-72926-04 Ultrasonic imaging development
** N01HV-72929-01 Improved detection of atherosclerosis (human, dogs)
** N01HV-72931-02 Non-invasive detection of atherosclerotic lesions (human, dogs)
** N01HV-72932-00 Non-invasive detection of atherosclerotic lesions (human, phantoms)
** N01HV-82915-01 Therapy for hypertension in the general population (human)

CARDIOVASCULAR DISORDERS DIAGNOSIS, BLOOD FLOW MEASUREMENTS*

P01HL-06285-18 0128 Cardiovascular-respiratory physiology and biochemistry - Pulmonary circulation in fetal lambs in utero
P01HL-06285-18 0129 Cardiovascular-respiratory physiology and biochemistry - Pulmonary microcirculation in the fetus and neonate (lambs)
P01HL-06285-18 0130 Cardiovascular-respiratory physiology and biochemistry - Ductus arteriosus--Morphological development (human, lambs)
P01HL-06285-18 0131 Cardiovascular-respiratory physiology and biochemistry - Fetal heart development and ventricular outflow obstruction (lambs)
P01HL-06285-18 0133 Cardiovascular-respiratory physiology and biochemistry - Decreased uterine blood flow and fetal development (lambs)
P01HL-06285-18 0135 Cardiovascular-respiratory physiology and biochemistry - Beta-adrenergic agents and fetal cardiovascular dynamics (lambs)
** P01HL-13737-07 0013 Assisted circulation - Incorporation of sensors (human, dogs)
** P01HL-13737-07 0037 Assisted circulation - Clinical measurement of blood flow through aorto-coronary vein bypass graft
** P50HL-14192-08 0008 Specialized center of research in hypertension New radiographic methods-Recognition of renovascular hypertension (human, dog)
P01HL-14388-07 0218 Regulation of the circulation in pathological states Regional myocardial dyskinesis-Cause assessment and reduction (dogs)
R01HL-15016-07 New concepts in cardiac ultrasound technology (human)
** R01HL-16830-05 Non-invasive determination of aortic blood velocities (human)
P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
** R01HL-18947-02 Indirect mean arterial pressure (mammals)
** R01HL-19019-03 Accurate transcutaneous Doppler blood flow monitoring
** R01HL-19289-03 Assessment of infusion methods for myocardial mapping (dogs)
R01HL-20677-02 Radionuclide studies in congenital heart disease
R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
** R01HL-20895-03 0002 Cineangiographic studies of cardiovascular system - Coronary disease-Regional myocardial blood flow (human, dog)
R01HL-20943-02 Comparision of microsphere and RBC behavior in vivo
** R01HL-20979-02 A novel pulsed Doppler flowmeter (dogs)
** P50HL-21006-02 0005 Specialized center of research in arteriosclerosis - Regional myocardial perfusion in patient with coronary artery disease (also dogs)
R01HL-22338-01 Platelet adhesion and aggregation in a flow chamber (human)

CARDIOVASCULAR DISORDERS DIAGNOSIS, BLOOD FLOW MEASUREMENTS, ELECTROMAGNETIC*

R01HL-03181-21 0020 Hemodynamics as applied to surgical problems - Blood flow measurement--Cardiac output and regional flows (dogs)
** R01HL-03181-21 0029 Hemodynamics as applied to surgical problems - Indocyanine green clearance for estimation of hepatic blood flow (human)
P01HL-06285-18 0125 Cardiovascular-respiratory physiology and biochemistry - Myocardial function in the fetal and neonatal lamb
P01HL-06285-18 0128 Cardiovascular-respiratory physiology and biochemistry - Pulmonary circulation in fetal lambs in utero
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
** R01HL-15781-06 Guided vascular obliteration of CNS vascular lesions (human)
** R01HL-17591-03 Development of electromagnetic rheoangiography (human, dogs)
R01HL-21796-01 Applied pulsatile hemodynamics in vascular surgery (dogs)
R01HL-22321-01 Cardiac output from the pneumocardiogram (dogs)

CARDIOVASCULAR DISORDERS DIAGNOSIS, BLOOD FLOW MEASUREMENTS, HYDROGEN*

R01HL-03181-21 0020 Hemodynamics as applied to surgical problems - Blood flow measurement--Cardiac output and regional flows (dogs)

CARDIOVASCULAR DISORDERS DIAGNOSIS, BLOOD FLOW MEASUREMENTS, THERMAL*

** P01HL-11310-12 0066 Mechanisms of cardiovascular disease - Measurement of cardiac output by thermodilution (children)
P01HL-11310-12 0080 Mechanisms of cardiovascular disease - Metabolism of the hypertrophied myocardium (human)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
P50HL-17651-04 0023 Ischemic heart disease specialized center of research - Development of multipurpose catheter for monitoring and electronic pacing
** P50HL-17651-04 0037 Ischemic heart disease specialized center of research - Measurement of coronary venous outflow by thermodilution (human)
P50HL-17651-04 0038 Ischemic heart disease specialized center of research - Cardiothermography (human, dog)
R01HL-18933-03 Energy output and efficiency of left ventricle (dog)

CARDIOVASCULAR DISORDERS DIAGNOSIS, BLOOD FLOW MEASUREMENTS, ULTRASONIC*

** R01HL-11717-09 Effect of stenotic obstructions on flow in arteries (dogs)
** R01HL-14645-07 Blood flow measurement by ultrasonic catheter tip methods (human, dogs)
R01HL-14785-07 Ultrasonic scattering for tissue characterization (dogs, cattle, human)
** R01HL-16759-05 Ultrasonic measurement of cardiac geometry and flow
P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Dynamics of ischemic heart disease (human, dog)
R01HL-18947-02 Indirect mean arterial pressure (mammals)
** R01HL-18977-03 Non-invasive diagnosis of peripheral arterial disease (human, dogs)
P50HL-19153-02 0001 SCOR-Pulmonary edemas-Etiology, pathogenesis Prostaglandins and the lung circulation (sheep)
** R01HL-19341-03 Ultrasonic detection of the atherosclerotic plaque
** R01HL-19406-03 Grading of atherosclerosis by CW doppler ultrasound (human, dogs)
** R01HL-19791-02 Ultrasonic monitoring visceral blood vessels
** R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
** R01HL-20835-02 Signal analysis of turbulence study in blood
** R01HL-20898-02 Ultrasonic evaluation in direct arterial surgery (models, cattle, human)
** R01HL-22326-01 Noninvasive measurement of cardiac output (dogs)
** R01HL-22512-01 Ultrasonic instrumentation for cardiovascular studies
** R01HL-22893-01 Evaluating arterial disease by velocity-wave analysis (dogs, human)
N01HV-72928-04 Develop high resolution ultrasonic imaging techniques
** N01HV-72929-01 Improved detection of atherosclerosis (human, dogs)

CARDIOVAS
BLOOD PRESSURE GRADIENT TECHNIQUE*
CULAR DISORDERS DIAGNOSIS,

** R01HL-21796-01 Applied pulsatile hemodynamics in vascular surgery (dogs)

CARDIOVASCULAR DISORDERS DIAGNOSIS, CATHETERIZATION*

** R01HL-15781-06 Guided vascular obliteration of CNS vascular lesions (human)
R01HL-18873-02 Early radiologic diagnosis of cardiac failure (monkey)

CARDIOVASCULAR DISORDERS DIAGNOSIS, EXERCISE STRESS TESTING*

P01HL-06285-18 0156 Cardiovascular-respiratory physiology and biochemistry - Myocardial performance following revascularization (human)
M P01HL-06296-18 Cardiovascular and pulmonary adaptation to stress
** P01HL-06296-18 0003 Cardiovascular and pulmonary adaptation to stress - Human exercise studies (human, dogs)
** P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
** P01HL-06296-18 0007 Cardiovascular and pulmonary adaptation to stress - Cardiovascular control during isometric exercise (cats)
** P01HL-06308-18 0010 Mechanisms and therapy of circulatory disease - Ventricular arrhythmias during exercise to CHD and myocardial ischemia (human)
** P01HL-06308-18 0043 Mechanisms and therapy of circulatory disease - Exercise and echocardiographic examining techniques (human)
P01HL-06312-17 0013 Surgical cardiology - Aortocoronary vein bypass grafting (human)
** P01HL-07896-15 0061 Environmental biomedical research program - Oxygen cost of breathing during graded exercise (human)
P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
M P01HL-10539-12 Pathophysiology of circulation
** P01HL-10539-12 0064 Pathophysiology of circulation - Exercise physiology and pathophysiology (human)
** P01HL-11310-12 0092 Mechanisms of cardiovascular disease - Exercise electrophysiology (human)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
P01HL-12738-10 0117 Physiologic pharmacology and its clinical applications - Ventricular arrhythmias in ischemic heart disease (human)
P01HL-13108-09 0008 Clinical heart transplantation - Physiology and pharmacology of the transplanted human heart
** P01HL-13108-09 0024 Clinical heart transplantation - Response of denervated heart to stress--Noninvasive (human)
** P01HL-13480-09 0028 Cardiac electrophysiology - Stress electrocardiography (human, dogs)
** R01HL-13639-07 Factors altering the course of myocardial dysfunction (cats)
R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-14236-05 0007 Prevention of premature arteriosclerosis Exercise stress testing hyperlipoproteinemia (human)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
P01HL-15265-05 0011 Program on surgical control of the hyperlipidemias - Central electrocardiography laboratory (human)
P01HL-15265-05 0013 Program on surgical control of the hyperlipidemias - Clinical center - Minnesota
P50HL-15389-07 0016 Pulmonary SCOR--Hypersensitivity pneumonitis - Pulmonary physiology core (human)
** R01HL-17246-03 Dxygen uptake at one minute of exercise (human)
P60HL-17269-04 0027 National heart and blood vessel research and demonstration center - Non-invasive evaluation of cardiac function--Ischemic heart disease (human, dog)
** R01HL-17578-04 Exercise performance in children with heart disease
P50HL-17648-04 0006 Study of ischemic heart disease - Ventricular performance and myocardial perfusion in obstructive coronary disease
P50HL-17651-04 0048 Ischemic heart disease specialized center of research - Non-invasive detection of ischemic heart disease
** P50HL-17669-04 0008 Ischemic heart disease center (SCDR) - Segmental ventricular dysfunction during stress-induced ischemia (dog, human)
** P50HL-17669-04 0013 Ischemic heart disease center (SCDR) - Exercise in patients with ischemic heart disease
P50HL-17670-04 0015 Study of ischemic heart disease - Radionuclide studies of myocardial ischemia (human)
P50HL-17670-04 0020 Study of ischemic heart disease - Radionuclide evaluation of coronary artery disease (human, dog)
P50HL-17682-04 0016 Study of ischemic heart disease - Endurance exercise--Prevention and rehabilitation in ischemic heart disease (pig)
R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
** R01HL-17853-03 Peripheral circulation in heart failure (animals)
** R01HL-18060-04 Exercise and coronary atherosclerotic heart disease (monkeys)
R01HL-18454-03 Maximal exercise testing in hyperlipidemic children
R01HL-18492-03 Measurement of regional coronary flow reserve (human, dogs)
R01HL-18749-03 Ventricular mechanics in the overloaded heart (dogs)
** R01HL-18805-04 0001 Sudden cardiac death and the onset of myocardial infarction - Predictive value of maximum exercise stress testing (human)
R01HL-18984-01 P50 effect on exercise limit in stable angina (human)
R01HL-19343-03 Behavioral influences on cardiac contractility (monkeys)
R01HL-19425-03 Cardiac function in hypertrophy (dog)
M R01HL-19451-03 Functional characteristics of the left heart
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
** R01HL-19870-03 Hypertensive progeny--Physical and humoral precursor search
R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
** R01HL-20253-02 Effects of exercise on the heart and its blood supply (dogs)
R01HL-20572-02 0007 Hemodynamic relations to metabolism in hypertension - Drug effects on cardiac function and hypertropy (rats)
R01HL-20598-03 The coronary vascular response to ischemia (dogs, pigs)
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
N01HV-12157-14 Lipid research clinic (human)
N01HV-22915-11 Establishment of lipid research clinic
N01HV-22916-16 Establishment of a lipid research clinic
N01HV-22932-09 Establishment of a lipid research clinic
N01HV-42911-07 ECG center for prevention of coronary heart disease (human)
N01HV-62960-00 Techniques to protect ischemic myocardium and minimize infant size (human)
N01HV-72939-01 Develop and evaluate left heart assist blood pumps (human, calves, pigs)

CARDIOVASCULAR DISORDERS DIAGNOSIS, INDICATOR DILUTION (CONCENTRATION)*

R01HL-03181-21 0020 Hemodynamics as applied to surgical problems - Blood flow measurement--Cardiac output and regional flows (dogs)
P01HL-04664-18 0005 Cardiovascular and lung dynamics - Applications of current research, equipment and techniques
** P01HL-06312-17 0047 Surgical cardiology - Myocardial extravascular water (dogs)
** R01HL-12879-09 0006 Pulmonary transport and metabolism in vivo - The missing sodium
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
R01HL-19135-04 Heterogeneity of regional myocardial blood flow (dogs)
R01HL-19139-03 Dispersion of diffusible indicators in the body (human, cats, dogs)
M P50HL-19153-02 SCOR--Pulmonary edemas--Eitology, pathogenesis
** P50HL-19153-02 0004 SCOR--Pulmonary edemas--Eitology, pathogenesis - Physical mechanisms in lung transvascular transport--Math models (sheep)
** P50HL-19153-02 0005 SCDR--Pulmonary edemas--Eitology, pathogenesis - Lung vascular permeability measured by indicator dilution methods (sheep)
** P50HL-19153-02 0006 SCDR--Pulmonary edemas--Eitology, pathogenesis - Pulmonary vascular abnormalities in human lung diseases

CARDIOVASCULAR DISORDERS DIAGNOSIS, PLETHYSMOGRAPHY*

R01HL-03181-21 0020 Hemodynamics as applied to surgical problems - Blood flow measurement--Cardiac output and regional fluws (dogs)
P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
** P01HL-14580-07 0005 Program project in respiratory mechanics - Development and evaluation of tests of pulmonary function (human)
R01HL-16463-05 Localization of airways obstruction and responses
** R01HL-19038-02 Plethysmographic evaluation of carotid blood flow (human, rabbits, dogs)
R01HL-22852-01 Diagnostic techniques in venous thromboembolism (human)
N01HR-62901-04 Measure pulmonary function in infants and children (also dogs, rabbits)

CARDIOVASCULAR DISORDERS DIAGNOSIS, PLETHYSMOGRAPHY, PHOTOELECTRIC*

** R01HL-19038-02 Plethysmographic evaluation of carotid blood flow (human, rabbits, dogs)

CARDIOVASCULAR DISORDERS DIAGNOSIS, SOUND MEASUREMENTS, VASCULAR*

SEE ALSD HEART DISDRDERS DIAGNOSIS, HEART SDUND MEASUREMENTS*
R01HL-16830-05 Non-invasive determination of aortic blood velocities (human)
R01HL-22783-01 Hemodynamic induction of intimal fibromuscular lesion

CARDIOVASCULAR DISORDERS EPIDEMIOLOGY

R01HL-01979-22 Arteriosclerosis in zoo animals on controlled diets (animals)
** R01HL-03341-22 Epidemiology of atherosclerosis in Evans Co Georgia
** R01HL-03429-18 Central nervous system and coronary heart disease (human)
** R01HL-04697-17 International heart disease epidemiology (human)
M P01HL-08974-14 Natural and experimental atherosclerosis
P01HL-08974-14 0005 Natural and experimental atherosclerosis - Atherosclerosis, coronary heart disease and sudden death (human)
** P01HL-09011-15 0018 A research and resource program in blood - Hepatitis B in normal populations--Epidemiology, risk factors and transmission
P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
P01HL-11310-12 0091 Mechanisms of cardiovascular disease - Noninvasive techniques in cardiovascular diagnosis (human)
R01HL-11901-12 0009 Effects of metabolic surgery on the hyperlipidemias - Cholesterol cord blood and family management program
** R01HL-13974-07 Ventricular premature beats and sudden coronary death (human)
P50HL-14141-05 0001 SCDR for atherosclerosis in childhood - Clinical implications (infants and children)
** P50HL-14141-05 0002 SCDR for atherosclerosis in childhood - Intrauterine environment of proband group (human)
** R01HL-14148-07 0007 The regional circulations - Salivary composition in hypertension (human)
** P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
** P50HL-14230-07 0088 A/S SCOR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
P50HL-14236-05 0001 Prevention of premature arteriosclerosis - Metabolism and transport of cholesterol and vitamin A (human, rats)
** P50HL-14237-07 0005 Support for arteriosclerosis center - Genetic determinants of apolipoprotein variability in lipoproteins (human)
P01HL-14388-07 9004 Regulation of the circulation in pathological states - Core biostatistics unit
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
M P50HL-15103-07 A/S SCDR--Early natural history of arteriosclerosis
** P50HL-15103-07 0001 A/S SCDR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
** R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
R01HL-15191-07 Multiparameter methods for cardiovascular research
** R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
** R01HL-15790-06 Follow-up study of acute coronary heart attacks (human)
** R01HL-16403-05 Prognostication by computer--Analyzed vectorcardiogram (human)
** R01HL-16461-05 Late results of valve replacement--Computer analysis (human)
R01HL-16484-04 Radiographic ventriculometry for coronary heart disease (human)
** R01HL-16774-04 Genetic epidemiology of hyperlipemia (Honolulu)
R01HL-16908-04 Myocardial function, risk factors and future CHD (men)
R01HL-16909-04 Myocardial function, risk factors and future CHD (men)
P60HL-17269-04 0039 National heart and blood vessel research and demonstration center - Health care services to patients in neighborhood clinics
R01HL-17408-03 Fresh blood rheology--Relation to cardiovascular risk (human)
** R01HL-17580-04 The impact of stress on coronary heart disease (men)
** P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
** P50HL-17669-04 0013 Ischemic heart disease center (SCDR) - Exercise in patients with ischemic heart disease
** P50HL-17670-04 0012 Study of ischemic heart disease - Epidemiology of sudden death (human)
R01HL-18175-03 Drug taking for hypertension in a rural community
** R01HL-18235-03 Cardiovascular fitness and other risk factors (human)
** P50HL-18318-03 0012 Pathogenesis and complications of hypertension - Behavioral factors in hypertension (human)
P50HL-18318-03 0018 Pathogenesis and complications of hypertension - Plasma renin activity in chronic ischemic heart disease (human)
P50HL-18323-04 0011 SCDR hypertension center - Endocrine profiling on a selected normal population (human)
P50HL-18323-04 0035 SCDR hypertension center - Control of high blood pressure at the work site
R25HL-18406-03 Adherence to hypertensive medical regimens (human)
R25HL-18414-03 Hypertension--Family strategies for patient adherence
R25HL-18418-03 Role of a supporting partner in adherence (human)
R25HL-18424-03 Blood pressure education in an industrial setting (human)
** R01HL-18456-03 Cardiovascular follow-up of hypertensive adolescents
** R01HL-18535-03 Epidemiology and course of viral myopericarditis (human)
R01HL-18589-03 Psychosocial factors and outcome in coronary disease (human)
** R01HL-18683-03 Left ventricle function in aortic regurgitation (human)
** R01HL-18715-02 Hypertension incidence project (human)
** R01HL-18769-04 Studies in survivors of lethal arrhythmias (human)
** R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-18783-04 Detection and control of ventricular premature beats (human)
R01HL-18793-03 Clinical-pathologic studies of sudden cardiac death (human)
** R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
M R01HL-18805-04 Sudden cardiac death and the onset of myocardial infarction
** R01HL-18805-04 0001 Sudden cardiac death and the onset of myocardial infarction - Predictive value of maximum exercise stress testing (human)
R01HL-18805-04 0003 Sudden cardiac death and the onset of myocardial infarction - Prediction from clinical and laboratory assessments (human)
R01HL-18808-04 0001 Prediction and prevention o. sudden cardiac death - Prognostic significance of premature ventricular contractions (human)
R01HL-18850-03 Classification code for Frank orthogonal ECG
** R01HL-18907-03 Dbjective evaluation early after MI and heart surgery (human)
** R01HL-19073-02 Heart disease and drinking water at home
** R01HL-19567-03 Impact of emotion on coronary arteries (human)
** R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
** R01HL-19858-03 UMMC--Blood pressure precursors and consequences (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-19859-03 Epidemiological studies, precursors of hypertension (human)
M R01HL-19864-03 Blood pressure of children and young adults
** R01HL-19864-03 0001 Blood pressure of children and young adults - Follow up of students from Dormont Pennsylvania
** R01HL-19864-03 0002 Blood pressure of children and young adults - Data epidemiology center
R01HL-19869-03 Antecedents of adolescent hypertension (human)
** R01HL-19877-02 Prevention of high blood pressure in children
** R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
** R01HL-19956-03 High blood pressure in the young (human)
** R01HL-19962-03 High blood pressure in young people in Tecumseh
** R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
** R01HL-20124-02 Coronary risk factors (human)
** R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)
** R01HL-20179-02 Epidemiology of sudden cardiac death among women
** R01HL-20244-02 he impact of hypertension information
** R01HL-20245-01 The impact of hypertension information
** R01HL-20247-01 The impact of hypertension information
** R01HL-20248-01 The impact of hypertension information
R01HL-20374-03 Myocardial function--Risk factors and future CHD (human)
R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
** R01HL-20508-03 Diabetes, hyperglycemia and cardiovascular disease (human)
** R01HL-20522-03 Peripheral arterial disease in the diabetic (human)
** R01HL-20535-02 Cardiovascular disease and evolving diabetes mellitus (human)
** R01HL-20637-02 Recovery after heart surgery--Bio-behavioral factors (human)
R01HL-20655-02 Autonomic predictors of hypertension in children
** R01HL-20662-02 Physical activity, fitness and epidemiology of CHD
** R01HL-20724-01 Behavioral consequences of hypertension (human)
** R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
** R01HL-21039-02 Vascular lesions of diabetes in Oklahoma Indians
** R01HL-21088-02 Genetic patterns in deaths from MI and stroke in Utah
** R01HL-21307-01 Risk reduction and exercise fitness in a population
R01HL-21427-02 Behavioral changes in post infarction patients
** R01HL-21527-01 Prospective study of bundle branch block (human)
** R18HL-21906-01 Stanford five city multifactor risk reduction study
** R01HL-21971-01 Atherosclerotic disease and risk factors in twins (human)
R01HL-21985-01 Videoroentgenography in congenital heart disease
R01HL-22212-01 Alameda county high blood pressure control program
** R01HL-22255-01 The etiology/prevalence of peripheral arterial disease (human)
** R01HL-22298-02 Origins of hypertension (human)
** R01HL-22378-01 Psyco-somatic predictors of CHD in adolescence (human)
R01HL-22380-01 Detroit hypertension control program
** R01HL-22472-01 Smoking risk-factor reduction--Maintenance strategies (human)
** R01HL-22514-01 Behavior patterns, stress, and catecholamines
** R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)
** R01HL-22802-01 A rural mining community hypertension control project (human)
** R01HL-22809-01 Coronary-prone behavior and cardiovascular reactivity (human)
** R18HL-22934-01 Behavorial approaches to adolescent hypertension
** R01HL-22982-01 Multicenter postcoronary risk stratification program (human)
** R01HL-23078-01 Psychosocial stress and sudden coronary death (human)
N01HV-12156-10 Lipid research clinic
N01HV-12157-14 Lipid research clinic (human)
N01HV-12158-10 Establishment of a lipid research clinic
N01HV-12159-09 Lipid research clinic
N01HV-12160-15 Establishment of a lipid research clinic
N01HV-12434-11 Therapy for hypertension in the general population
** N01HV-12435-15 Therapy for hypertension in the general population (human)
N01HV-12436-15 Hypertension therapy in the general population (human)
N01HV-12440-14 Therapy for hypertension in the general population (human)
N01HV-12442-14 Therapy for hypertension in the general population (human)
N01HV-22913-09 Lipid research clinic
N01HV-22914-08 Establishment of a lipid research clinic
N01HV-22917-11 Lipid research clinic (human)
N01HV-22932-09 Establishment of a lipid research clinic
N01HV-22937-07 Therapy for hypertension in general population
N01HV-22945-11 Cooperative hypertension detection and follow up study (human)
N01HV-22971-07 Prevention of coronary heart disease (human)
** N01HV-22976-07 Multiple risk factor intervention trial, prevention of coronary heart disease
N01HV-22977-08 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22979-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22981-10 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-32973-12 Coordinating center for collaborative studies on coronary artery surgery
N01HV-33101-06 Development and conduct of a multiple risk factor intervention trial (human)
N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33108-04 Prevention of coronary heart disease (human)
N01HV-33109-04 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33110-04 Prevention of coronary heart disease (human)
** N01HV-42902-08 Epidemiological studies of coronary heart disease (human)
N01HV-42911-07 ECG center for prevention of coronary heart disease (human)
N01HV-42929-08 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42930-09 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42931-07 Risk factor intervention trail for the prevention of CHD (men)
** N01HV-42933-09 Multiple risk factors in coronary heart disease (human)
** N01HV-53015-09 Establishment of a lipid research clinic (human)
** N01HV-62955-04 Data collection in clinical pathology and morbid anatomy (men)
N01HV-82915-01 Therapy for hypertension in the general population (human)

CARDIOVASCULAR DISORDERS PREVENTION AND CONTROL (NOT INCLUDED ELSEWHERE)

SEE ALSO CARDIOVASCULAR DISORDERS CHEMOTHERAPY
SEE ALSO CARDIOVASCULAR DISORDERS EPIDEMIOLOGY
SEE ALSO CARDIOVASCULAR SURGERY
R01HL-01803-23 0005 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic and dietary synergy in the pathogenesis of atherosclerosis (rabbits)
P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)
** P01HL-06312-17 0050 Surgical cardiology - Prevention of pericardial and pleural adhesions by silicone oil (dogs)
** P01HL-06835-17 0014 Cardiovascular disease - Dietary induction of severe atherosclerosis and its prevention (dogs)
R01HL-08892-10 Cooperative study of drugs and coronary heart disease
R01HL-11686-09 Dynamics of thrombus formation and dissolution (human, chickens)
M P01HL-15265-05 Program on surgical control of the hyperlipidemias
** P01HL-15265-05 0003 Program on surgical control of the hyperlipidemias - Central lipid laboratory
R01HL-15498-06 Effects of physical training on heart (rats)
P60HL-17269-04 0037 National heart and blood vessel research and demonstration center - Secondary and university education
P60HL-17269-04 0038 National heart and blood vessel research and demonstration center - Continuing education
** P60HL-17269-04 0039 National heart and blood vessel research and demonstration center - Health care services to patients in neighborhood clinics
** R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
** R01HL-17580-04 The impact of stress on coronary heart disease (men)
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
** P50HL-17682-04 0016 Study of ischemic heart disease Endurance exercise-Prevention and rehabilitation in ischemic heart disease (pig)
** R01HL-17809-04 Effects of exercise on the coronary vasculature (rat, dog)
** R01HL-17974-03 External pneumatic compression in deep venous thrombosis (human)
R01HL-18235-03 Cardiovascular fitness and other risk factors (human)
P50HL-18323-04 0035 SCOR hypertension center Control of high blood pressure at the work site
R01HL-18333-05 Thrombogenesis and hemostatic balance (rabbits, human)
R01HL-18715-02 Hypertension incidence project (human)
** R01HL-18738-02 Prevention of postoperative venous thrombi (human, cattle)
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-18798-04 0003 Nervous and ionic factors in sudden cardiac death Left stellectomy in the prevention of sudden death (dogs)
R01HL-18907-03 Objective evaluation early after MI and heart surgery (human)
** R01HL-19350-02 Prevention of thrombosis by applied electric fields (sheep)
** R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
** R01HL-19877-02 Prevention of high blood pressure in children
** R01HL-20124-02 Coronary risk factors (human)
R01HL-20471-03 Atherosclerosis and diabetes mellitus (human)
** R01HL-20554-02 Memory-alloy-filters for venous emboli (dogs)
** R01HL-20637-02 Recovery after heart surgery--Bio-behavioral factors (human)
** R01HL-20910-02 The alternative diet for coronary disease prevention (human)
P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
R01HL-21039-02 Vascular lesions of diabetes in Oklahoma Indians
** R01HL-21307-01 Risk reduction and exercise fitness in a population
** R01HL-21427-02 Behavioral changes in post infarction patients
** R01HL-21527-01 Prospective study of bundle branch block (human)
R01HL-21572-01 Natural history of the postphlebitic syndrome
** R18HL-21906-01 Stanford five city multifactor risk reduction study
** R01HL-21912-01 Biosynthesis of lipoic acid and atherosclerosis (birds, chick embryos)
** R01HL-22098-01 Is postoperative infarction due to reperfusion injury? (human, dogs)
** R01HL-22212-01 Alameda county high blood pressure control program
M R23HL-22345-02 Behavioral cardiovascular compliance strategies
** R23HL-22345-02 0001 Behavioral cardiovascular compliance strategies - Long term modification of dietary patterns (human)
** R23HL-22345-02 0002 Behavioral cardiovascular compliance strategies - Compliance with antihypertensive medication regimens (human)
** R01HL-22380-01 Detroit hypertension control program
** R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
** R01HL-22759-01 Regional myocardial blood flow during hypothermia (dogs)
** R01HL-22802-01 A rural mining community hypertension control project (human)
R01HL-22821-01 A routine screening analysis for myoglobinemia
R01HL-22852-01 Diagnostic techniques in venous thromboembolism (human)
** R01HL-22888-01 Prosthetic valve endocarditis--Etiology and therapy (dogs)
R18HL-22934-01 Behavorial approaches to adolescent hypertension
** R01HL-22982-01 Multicenter postcoronary risk stratification program (human)
N01HV-62941-01 Nutrition coding center for MRFIT and LRC programs

CARDIOVASCULAR EXAMINATIONS

SEE CARDIOVASCULAR DISORDERS DIAGNOSIS*

CARDIOVASCULAR FUNCTION

SEE ALSO CARDIOVASCULAR SYSTEM, BLOOD SUPPLY
SEE ALSO CARDIOVASCULAR SYSTEM, ENDOTHELIUM PERMEABILITY
SEE ALSO HEART FUNCTION
R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
M P01HL-06285-18 Cardiovascular-respiratory physiology and biochemistry
** P01HL-06285-18 0136 Cardiovascular-respiratory physiology and biochemistry - Fetal microcirculation in utero (rabbits, lambs)
M P01HL-06835-17 Cardiovascular disease
M P01HL-08682-15 Regulation of the cardiovascular system

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-08682-15 0025 Regulation of the cardiovascular system - Physiology of preganglionic cell bodies (cat)
M P01HL-11678-11 Cardiovascular dynamics and their control
P01HL-11678-11 0017 Cardiovascular dynamics and their control - Overall control of circulation--Mathematical analyses
** P01HL-12373-10 0014 Cardiopulmonary physiology and pathophysiology - Analog digital computation and simulation facility
P01HL-12373-10 0019 Cardiopulmonary physiology and pathophysiology - Free ranging animal facility
R01HL-13187-09 Central neural control of cardiovascular function (cats)
P01HL-14388-07 0156 Regulation of the circulation in pathological states - Blood pressure with drinking to intracranial angiotensin II injections (rats)
P01HL-14388-07 0158 Regulation of the circulation in pathological states - Developmental aspect of abnormal vascular reactivity (rats)
** P01HL-14414-07 0015 Environmental influences on cardiorespiratory and cellular functions - Control of the cardiovascular system (dogs)
** R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
** P60HL-15158-07 0025 Comprehensive sickle cell center - Cardiovascular evaluation of children with sickle cell disease (human)
R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
M P01HL-16117-05 Ion movements and membranes in cardiovascular control
** R01HL-16390-05 Cardiopulmonary control coupling in exercise (dogs)
** R01HL-16648-16 Integrated control of cardiovascular activity (cats)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
** R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
** R01HL-17847-04 Cardiovascular and renal functions of marmots
** R01HL-18560-03 Cardiovascular adaptation to stress (miniature swine)
** P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)
** R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
** R01HL-19680-01 Cardiac correlates of behavioral stress in animals (dog)
** R01HL-20373-02 Cardiovascular aging in young men and women
R01HL-21117-01 Altitude adaptation in chronic lung disease (human)
** R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)
** R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
R23HL-21954-01 Exercise conditioning in patients with cystic fibrosis
** R01HL-21985-01 Videoroentgenography in congenital heart disease
** R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))

CARDIOVASCULAR FUNCTION, BLOOD CIRCULATION DYNAMICS (GENERAL)

SEE ALSO CEREBROVASCULAR SYSTEM, BRAIN CIRCULATION

** R01HL-01755-25 Fetal and neonatal cardiovascular function (sheep)
** R01HL-02228-24 Respiration, circulation, and heat regulation in exercise (bird, mammals)
** R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
M R01HL-03181-21 Hemodynamics as applied to surgical problems
** R01HL-03181-21 0028 Hemodynamics as applied to surgical problems - Extra-renal factors in the hypertension of coarctation (dog)
R01HL-03181-21 0029 Hemodynamics as applied to surgical problems - Indocyanine green clearance for estimation of hepatic blood flow (human)
P01HL-04664-18 0015 Cardiovascular and lung dynamics - Computer system for the cardiovascular laboratory
R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
M R01HL-05883-18 Reflex control of resistance and capacitance vessels
P01HL-06285-18 0127 Cardiovascular-respiratory physiology and biochemistry - Experimental congenital cardiac lesions in fetal lambs
** P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
P01HL-06285-18 0157 Cardiovascular-respiratory physiology and biochemistry - Left ventricle outflow impedance analysis (human)
P01HL-06285-18 0158 Cardiovascular-respiratory physiology and biochemistry - Load on myocardial contractility (dogs)
P01HL-06285-18 0164 Cardiovascular-respiratory physiology and biochemistry - CPK MB isoenzyme concentration to quantify infarct size (human, animals)
** P01HL-06308-18 0012 Mechanisms and therapy of circulatory disease - Echocardiographic evaluation of hemodynamics of arrhythmia (human)
P01HL-06308-18 0043 Mechanisms and therapy of circulatory disease - Exercise and echocardiographic examining techniques (human)
P01HL-06312-17 0046 Surgical cardiology - The relationship of prostaglandins to heart disease
P01HL-06664-17 0010 Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
P01HL-06664-17 0034 Cardiopulmonary function in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
P01HL-06835-17 0040 Cardiovascular disease - Benign and malignant phase of renal hypertension (dogs)
P01HL-06835-17 0048 Cardiovascular disease - Aldosterone producing adenoma prediction of curability (human)
** P01HL-06835-17 0051 Cardiovascular disease - Cardiopulmonary volume in hypertension (human)
** P01HL-06835-17 0053 Cardiovascular disease - Vasodilating drugs (human)
** R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
P01HL-07293-17 0057 Non-invasive cardiovascular measurements - Peripheral vascular scanner engineering evaluation and error analysis (human)
R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
** P01HL-08682-15 0021 Regulation of the cardiovascular system - Hypoglycemia in pathogenesis of shock (dog)
R01HL-08696-15 0020 Orthotopic heart transplantation - Complete cardiopulmonary transplantation (dogs)
M P01HL-08805-15 Regulation of ventilation and pulmonary circulation
P01HL-08805-15 0006 Regulation of ventilation and pulmonary circulation - Adaptation of lungfish--Estivation
P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Dirofilaria immitis in the dog
R01HL-09711-13 Instantaneous blood flow in ascending aorta (human, dogs)
** R01HL-10182-13 Circulatory function and electrolytic metabolism (dogs, human)
** R01HL-10330-11 Physiological mechanics of the heart and arteries (dogs, rabbits, horses)
** P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
** P01HL-10436-13 0015 A multidisciplinary study of congenital heart disease - Fetal and neonatal cardiovascular physiology (sheep)
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
** R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
** R01HL-11289-12 Analysis of stress in pulsatile dynamics
P01HL-11310-12 0056 Mechanisms of cardiovascular disease - Cardiac output response to blood pressure reduction in infants (human)
P01HL-11310-12 0057 Mechanisms of cardiovascular disease - Blood pressure reduction after heart surgery in adults (human)
P01HL-11310-12 0060 Mechanisms of cardiovascular disease - Effect of left atrium on the circulation--Simulation
** P01HL-11310-12 0067 Mechanisms of cardiovascular disease - Cardiac performance with measured homodynamic variables (human)
** P01HL-11310-12 0082 Mechanisms of cardiovascular disease - Myocardial function in adult congenital heart disease (human)
** P01HL-11310-12 0083 Mechanisms of cardiovascular disease - Ventricular volume and hemodynamics in adult congenital heart disease
** P01HL-11678-11 0017 Cardiovascular dynamics and their control - Overall control of circulation--Mathematical analyses
** P01HL-11678-11 0020 Cardiovascular dynamics and their control - Circulatory and pulmonary fluid dynamics during pulmonary edema
P01HL-11678-11 0027 Cardiovascular dynamics and their control - Vasopressin and thirst in control of body fluid volumes and osmolality (dogs)
** P01HL-11678-11 0043 Cardiovascular dynamics and their control - Basic mechanisms of circulatory shock (dog)
** P01HL-11678-11 0058 Cardiovascular dynamics and their control - Overall control of the circulation--Computer analysis
** P01HL-11678-11 0059 Cardiovascular dynamics and their control - Basic hemodynamics (dogs, rats)
** P01HL-11678-11 0064 Cardiovascular dynamics and their control - Renal medulla--Control of renal hemodynamics, electrolyte excretion (dogs)
** P01HL-11678-11 0067 Cardiovascular dynamics and their control - Angiotension II, sodium excretion and renal hemodynamics (dogs)
** P01HL-11678-11 0068 Cardiovascular dynamics and their control - Basic hemodynamics (rats, dogs)
** P01HL-11678-11 0069 Cardiovascular dynamics and their control - Nervous control of the cirulation (dogs)
R01HL-11717-09 Effect of stenotic obstructions on flow in arteries (dogs)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
** R01HL-11876-11 Regional myocardial blood flow and metabolism (dogs, swine)
R01HL-12083-11 Flow field in aorta and its major branches (dogs, phantom models)
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
** P01HL-12373-10 0015 Cardiopulmonary physiology and pathophysiology - Cine angiographic-hemodynamic facility
R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
** R01HL-12690-09 Systemic and local vascular adjustment in shock (monkeys, cats)
** R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
P01HL-12738-10 0069 Physiologic pharmacology and its clinical applications - Blood rheology in coronary heart disease (dogs)
P01HL-12738-10 0092 Physiologic pharmacology and its clinical applications - Subendocardial ischemia following open heart surgery (human)
P01HL-12738-10 0098 Physiologic pharmacology and its clinical applications - Skeletal muscle support of the chronically failing heart (dogs)
** P01HL-12738-10 0111 Physiologic pharmacology and its clinical applications - Cardiovascular pharmacology (dogs)
P01HL-12738-10 0133 Physiologic pharmacology and its clinical applications - Pharmacologic antagonism of beta-adrenergic blockade (dogs)
** R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
** P01HL-13108-09 0008 Clinical heart transplantation - Physiology and pharmacology of the transplanted human heart
P01HL-13108-09 0023 Clinical heart transplantation - Adaptive mechanisms of the denervated heart (human)
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
** P01HL-13330-08 0031 Mechanical circulatory support - Hemodynamics of cardiac prosthesis
R01HL-13426-09 Left ventricular bypass for myocardial infarction (cattle, human)
R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
R01HL-13623-08 Atrial receptors (dogs)
** R01HL-13634-08 Renal hypertension in pregnancy (sheep)
R01HL-13639-07 Factors altering the course of myocardial dysfunction (cats)
M P01HL-13737-07 Assisted circulation
P01HL-13737-07 0002 Assisted circulation - U-shaped mechanical auxiliary ventricle (dogs)
** P01HL-13737-07 0007 Assisted circulation - Determination of cardiac status by use of balloon pump (dogs)
P01HL-13737-07 0008 Assisted circulation - Phase-shift balloon pumping alternate designs
** P01HL-13737-07 0009 Assisted circulation - Analytical models
P01HL-13737-07 0013 Assisted circulation - Incorporation of sensors (human, dogs)
P01HL-13737-07 0024 Assisted circulation - Dynamic prosthetic myocardium (dogs)
P01HL-13737-07 0027 Assisted circulation - Optimization of cardiac assistance (dogs)
P01HL-13737-07 0028 Assisted circulation - Clinical studies of intraaortic balloon pumping
P01HL-13737-07 0030 Assisted circulation - Myocardial ischemia--Effects of phase-shift balloon pumping (dogs)
P01HL-13737-07 0032 Assisted circulation - The dynamic aortic patch (human, dogs)
P01HL-13737-07 0035 Assisted circulation - Mapping the geometry and elasticity of the aorta
** P01HL-13737-07 0036 Assisted circulation - Assessment of infarct size from hemodynamic measurements
P01HL-13737-07 0039 Assisted circulation - Computer controlled intraortic balloon pumping

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
R01HL-13803-07 Advanced cardiac valvular and vascular prosthesis (dogs, baboons)
R01HL-14148-07 0008 The regional circulations - Renal circulation in hypertensive patients (also dogs)
P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
P50HL-14187-07 0005 Pulmonary SCOR-Chemical mediators in pulmonary vascular responses - Pulmonary hypertension and cardiac function (dogs, human)
R01HL-14306-07 Quantification of arterial pressure control (dogs)
M P01HL-14388-07 Regulation of the circulation in pathological states
P01HL-14388-07 0151 Regulation of the circulation in pathological states - Catecholamine release in potassium ion-free contractures in the caudal artery
P01HL-14388-07 0152 Regulation of the circulation in pathological states - Ion flux alterations in caudal artery in SHR
P01HL-14388-07 0153 Regulation of the circulation in pathological states - Subcellular distribution of calcium (rats)
P01HL-14388-07 0154 Regulation of the circulation in pathological states - Energetics of smooth muscle contraction (rats)
P01HL-14388-07 0155 Regulation of the circulation in pathological states - Cardiopulmonary afferent activity, carotid chemo-baroreceptor reflexes
P01HL-14388-07 0164 Regulation of the circulation in pathological states - Hyperkinetic heart syndrome (human)
P01HL-14388-07 0165 Regulation of the circulation in pathological states - Vascular resistance in experimental atherosclerosis in Rhesus monkeys
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0203 Regulation of the circulation in pathological states - Activation of sympathetic nervous systems in spontaneously hyperactive rats
P01HL-14388-07 0210 Regulation of the circulation in pathological states - Effects of dietary sodium on blood pressure and vascular reactivity
P01HL-14388-07 0213 Regulation of the circulation in pathological states - Regulation of the heart and peripheral circulation in heart failure
P01HL-14388-07 0217 Regulation of the circulation in pathological states - Fluid mechanics of aortic flow (dogs, human)
P01HL-14388-07 0218 Regulation of the circulation in pathological states - Regional myocardial dyskinesis-Cause assessment and reduction (dogs)
P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
P01HL-14388-07 0221 Regulation of the circulation in pathological states - Experimental myocardial infarction (dogs)
P01HL-14388-07 0222 Regulation of the circulation in pathological states - Renal perfusion pressure in hypertension (rats)
P01HL-14388-07 0233 Regulation of the circulation in pathological states - Pressure-flow relationships after regression of experimental atherosclerosis
P01HL-14414-07 0003 Environmental influences on cardiorespiratory and cellular functions - Exposure to abnormal gaseous environments (human, dogs, rabbits)
P01HL-14414-07 0015 Environmental influences on cardiorespiratory and cellular functions - Control of the cardiovascular system (dogs)
R01HL-14529-07 Systems analysis of baroreflex (dogs)
** R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
P60HL-15158-07 0025 Comprehensive sickle cell center - Cardiovascular evaluation of children with sickle cell disease (human)
P01HL-15194-07 0017 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation and effects of arteriographic lesions on flow (human)
P01HL-15194-07 0018 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, metabolic demand and vasodilatory reserve (human, dogs)
** R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
R01HL-15390-12 Regulation of blood flow in the microcirculation
** R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
** R01HL-15607-06 Physiological control of splanchnic circulation (dogs)
** R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
R01HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
R01HL-16022-05 Determinants of the ventilatory response to hypoxia (goats, cats)
R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
R01HL-16206-04 Regression of atherosclerotic plaques (monkeys, dogs)
R01HL-16233-05 Molecular cardiology of MDP induced left ventricular failure (dogs)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
R01HL-16643-02 Fluorocarbon emulsions as artificial blood (animals)
** R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-16759-05 Ultrasonic measurement of cardiac geometry and flow
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
R01HL-17407-05 Peripheral circulation and fluid balance (fish, mammals, human)
** R01HL-17437-03 'Perfusion lung'-Role of traumatized leukocytes (dogs, human)
R01HL-17459-03 Myocardial ischemia (dogs)
** R01HL-17479-04 Blood storage-The production of cardiotoxic material (dogs, human, swine)
R01HL-17581-03 Patent ductus arteriosus and pulmonary hypertension (dogs)
P50HL-17646-04 0001 Study of ischemic heart disease - Core clinical investigation unit
P50HL-17646-04 0015 Study of ischemic heart disease - Protecting ischemic myocardium in patients with evolving myocardial infarction
** P50HL-17648-04 0034 Study of ischemic heart disease - Data management--Hemodynamic data
M P50HL-17651-04 Ischemic heart disease specialized center of research
** P50HL-17651-04 0015 Ischemic heart disease specialized center of research - Peripheral circulation in acute myocardial ischemia and infarction (human)
P50HL-17651-04 0022 Ischemic heart disease specialized center of research - Electrophysiology--Mechanism and pharmacology of arrhythmias (human, dog)
P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
** P50HL-17651-04 0046 Ischemic heart disease specialized center of research - Clinical core--Physiological changes/biochemical effects of myocardial ischemia
P50HL-17665-04 0001 Study of ischemic heart disease - Reduction of acute anterior myocardial infarction--Mechanical circulatory assist
P50HL-17665-04 0002 Study of ischemic heart disease - Reducing acute anterior myocardial infarction--Beta adrenergic blockade (human)
** P50HL-17665-04 0012 Study of ischemic heart disease - Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog
** P50HL-17665-04 0022 Study of ischemic heart disease - Effect of coronary revascularization on left ventricular function (human)
** P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human)
P50HL-17665-04 0030 Study of ischemic heart disease - Data management
P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
P50HL-17669-04 0009 Ischemic heart disease center (SCOR) - Infarct volume--99Tc stannous pyrophosphate myocardial scintigrams (dogs, human)
** P50HL-17670-04 0006 Study of ischemic heart disease - Assessment of coronary artery hemodynamics and myocardial blood flow (human)
P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
** P50HL-17670-04 0015 Study of ischemic heart disease - Radionuclide studies of myocardial ischemia (human)
P50HL-17682-04 0009 Study of ischemic heart disease - Computer core unit
P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
P50HL-17682-04 0013 Study of ischemic heart disease - Chronic ischemic heart disease--Myocardial function and metabolism (dogs, swine)
** P50HL-17682-04 0014 Study of ischemic heart disease - Myocardial ischemia--Instrumentation and technique (dogs, baboons)
P01HL-17871-04 0010 Kidney, sodium, cardiac output, arterioles and hypertension - Renal prostaglandins metabolism in hypertension (rats, dogs)
R01HL-17931-04 Normalized body surface potential maps (children)
R01HL-17974-03 External pneumatic compression in deep venous thrombosis (human)
R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
** R01HL-17998-04 Regulatory mechanisms in blood circulation (dogs)
** R01HL-18020-04 Splanchnic hemodynamics in man
R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
** R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k ambryo)
R01HL-18097-04 Pathogenesis of acute renal failure (rats)
** R01HL-18156-02 Hemodynamics in curved arteries
** P50HL-18318-03 0010 Pathogenesis and complications of hypertension - Hemodynamics in mineralocorticoid and low renin hypertension (human)
P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin angiotensin system in blood pressure regulation (human, rat, dog)
P50HL-18323-04 0012 SCOR hypertension center - Renin as a risk factor (human)
P50HL-18323-04 0042 SCOR hypertension center - Blood viscosity and blood volume in hypertensive disease (human, dog)
** P50HL-18323-04 0046 SCOR hypertension center - Coronary artery by[illegible] and hypertension (human)
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
** R01HL-18426-04 Regulation of renal hemodynamics (dogs)
** R01HL-18489-03 Hemodynamic interactions of vasoactive chemicals (rats)
R01HL-18492-03 Measurement of regional coronary flow reserve (human, dogs)
R01HL-18560-03 Cardiovascular adaptation to stress (miniature swine)
** P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
P01HL-18575-03 0006 Mechanisms of vascular changes in hypertension - Evaluation of arterial compliance in hypertension (human, pigs)
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
P01HL-18646-03 0010 Studies basic to heart transplantation - Development and study of a heart preservation chamber (dogs, sheep)
R01HL-18657-03 Pharmacologic studies on neurogenic digitalis effects (human, cats, dogs)
P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-18731-02 RES stimulating materials in experimental shock (dogs)
R01HL-18749-03 Ventricular mechanics in the overloaded heart (dogs)
R01HL-18769-04 Studies in survivors of lethal arrhythmias (human)
R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
R01HL-18900-03 Intercellular factors in function of cardiac cells
** R01HL-18948-03 Pulseless flow and circulatory assistance (dogs, calves)
R01HL-18977-03 Non-invasive diagnosis of peripheral arterial disease (human, dogs)
R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
** R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
R01HL-19044-03 Effect of drugs on development of cardiac failure (cats)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
R01HL-19066-03 Synthesis and evaluation of prostaglandin metabolites (guinea pigs)
R01HL-19139-03 Dispersion of diffusible indicators in the body (human, cats, dogs)
R01HL-19144-03 Contraceptive steroids and experimental hypertension (rats)
R01HL-19225-02 0003 Types and mechanims of pulmonary hypertension - Cardiopulmonary function in pigs and rats
R01HL-19257-03 Cardiovascular adjustment to behavioral stress (dog)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
** R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)
R01HL-19343-03 Behavioral influences on cardiac contractility (monkeys)
R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
R01HL-19370-03 Coronary capillary exchange--The effects of ischemia (dogs, sheep)
** R01HL-19391-03 Dynamic determinants of left ventricular filling (dogs)
R01HL-19406-03 Grading of atherosclerosis by CW doppler ultrasound (human, dogs)
R01HL-19461-03 Myocardial energetics in hypertrophy and heart failure (rabbits)
R01HL-19463-02 Pathophysiology of acute renal failure (rats)
R01HL-19830-02 Shear to aortic histamine synthesis and permeability (dogs)
R01HL-19977-02 Genesis of circulatory shock by pancreatic peptides (cats, dogs)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-20143-02 Hypothermic circulatory arrest--Cerebral vascular change (dogs)
** R01HL-20163-02 Competitive coronary flow in native and graft vessels (dog)
R01HL-20226-02 Cardiac bypass and coronary collateral physiology (dogs)
R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
R01HL-20356-02 Development and evaluation of an artificial heart (calves)
** R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
** R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
M R01HL-20572-02 Hemodynamic relations to metabolism in hypertension
** R01HL-20572-02 0001 Hemodynamic relations to metabolism in hypertension - Hemodynamic and myocardial functional studies in the SHR (rat)
** R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood flow in hypertension (rats)
** R01HL-20572-02 0008 Hemodynamic relations to metabolism in hypertension - Role of nervous system in hemodynamic function
R01HL-20610-02 Nerve growth factor and obstructive cardiomyopathy (dogs)
** R01HL-20690-02 Pulmonary hemodynamics in lung edema during PEEP (dogs)
** R01HL-20766-02 Control of circulation in heat stress (baboons)
R01HL-20803-02 Intra-aortic balloon pumping (dogs, lambs, cats)
** R01HL-20829-02 Fluid mechanics of heart valve prostheses (dogs, human)
R01HL-20835-02 Signal analysis of turbulence study in blood
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)
R01HL-20979-02 A novel pulsed Doppler flowmeter (dogs)
R01HL-21034-01 Compensatory responses to arterial occlusion (dogs)
R01HL-21071-02 Mechanisms of hypertension in coarctation of the aorta (dog)
R23HL-21151-02 Ischemic myocardium--Delivery of blood flow and drugs (dogs)
R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
R23HL-21203-02 Effect of vasoactive agents on left-to-right shunts (lambs)
R23HL-21234-02 The regulation of cardiac hypertrophy (rabbits)
R01HL-21257-02 Breathing in sleep--Airway control and blood gases (cats)
** R01HL-21270-01 Correlation of arterial hemodynamics and morphology (human)
R01HL-21293-02 Randomized study of coronary bypass surgery (human)
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
R01HL-21438-02 Structure and permeability of arterial endothelium (pigs)
R01HL-21452-02 Pulmonary capillary filtration in myocardial ishemia (dogs)
** R01HL-21523-01 Hemodynamic effects of dietary sodium in man
** R01HL-21572-01 Natural history of the postphlebitic syndrome
R01HL-21589-01 Radiographic contrast toxicity in ischemic heart
R01HL-21657-01 Regional non-ischemic myocardial hypoxia (dogs)
** R01HL-21796-01 Applied pulsatile hemodynamics in vascular surgery (dogs)
R01HL-21817-01 Catecholamines, blood pressure and circulation
R01HL-21893-01 Blood volume distribution in hypertension (human)
** R23HL-21943-01 Capillary morphology in pulmonary edema (dogs)
R01HL-21985-01 Videoroentgenography in congenital heart disease
** R01HL-22032-01 Cardiovascular events in hypertensives (human)
R01HL-22069-02 Experimental renal arterial hypertension (dogs)
** R01HL-22113-02 Micro/macrovasculature in healing of foot lesions (human)
P01HL-22163-01 0003 Surface thrombogenesis--Mechanisms and prevention - In vivo mechanisms of biomaterial thrombogenesis and its prevention (baboons)
** R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
** R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
R01HL-22326-01 Noninvasive measurement of cardiac output (dogs)
R01HL-22455-01 Platelet concentration in the marginal layer (dogs, human)
** R01HL-22482-01 Circulatory hemodynamics and sodium excretion (dogs)
** R01HL-22506-01 Hemodynamics of the clinical hypertensions
** R01HL-22561-01 Hormonal control of mesenteric circulation (cats)
R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)
R01HL-22661-01 Chronic total cardiopulhonary mechanical substitution (sheep)
** R23HL-22747-01 Cardiodynamics and hypertension under cerebellar control (dogs)
R01HL-22759-01 Regional myocardial blood flow during hypothermia (dogs)
** R01HL-22783-01 Hemodynamic induction of intimal fibromuscular lesion
** R01HL-22928-01 Systematic study of bronchial circulation (sheep)
** R23HL-22975-01 Dynamics of autoregulation of muscle blood flow (dogs)
** R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
R01HL-23201-01 Mechanisms of hypertension (human, rats)
** R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)
R01HL-23970-01 Mechanisms and control of sudden cardiac death (human, dog)
N01HR-62920-02 Noninvasive diagnosis of pulmonary hypertension (dog, human)
N01HV-42914-13 Solenoid left ventricular assist system (cattle)
N01HV-62960-00 Techniques to protect ischemic myocardium and minimize infant size (human)
N01HV-72936-00 Left heart assist device development (human, cattle)
N01HV-72939-01 Oevelop and evaluate left heart assist blood pumps (human, calves, pigs)

CARDIOVASCULAR FUNCTION, BLOOD CIRCULATION TIME

R01HL-22512-01 Ultrasonic instrumentation for cardiovascular studies

CARDIOVASCULAR FUNCTION, BLOOD FLOW

SEE ALSO BLODD STASIS
SEE ALSD CARDIOVASCULAR DISORDERS OIAGNDSIS, BLDOD FLDW MEASUREMENTS*
SEE ALSO CARDIDVASCULAR OISORDERS OIAGNOSIS, BLOOD PRESSURE GRAOIENT TECHNIQUE*
SEE ALSD CARDIOVASCULAR DISDROERS DIAGNDSIS, PLETHYSMOGRAPHY*
** N01HI-02216-10 To develop biological flow NMR concept (human, mammals non human)
R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
** R01HL-03181-21 0020 Hemodynamics as applied to surgical problems - Blood flow measurement--Cardiac output and regional flows (dogs)
** R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
** R01HL-03181-21 0027 Hemodynamics as applied to surgical problems - Hemodynamic studies of the GI tract (dogs)
R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
** R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
R01HL-05875-18 Pathologic metabolic and physiologic studies of heart (human, dogs, cats)
** R01HL-05883-18 0007 Reflex control of resistance and capacitance vessels - Prostaglandins and skeletal muscle blood flow (dogs)
R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
** P01HL-06285-18 0131 Cardiovascular-respiratory physiology and biochemistry - Fetal heart development and ventricular outflow obstruction (lambs)
P01HL-06285-18 0133 Cardiovascular-respiratory physiology and biochemistry - Decreased uterine blood flow and fetal development (lambs)
P01HL-06285-18 0135 Cardiovascular-respiratory physiology and biochemistry - Beta-adrenergic agents and fetal cardiovascular dynamics (lambs)
P01HL-06285-18 0143 Cardiovascular-respiratory physiology and biochemistry - Myocardial ischemia (human, dogs, lambs)
** P01HL-06285-18 0147 Cardiovascular-respiratory physiology and biochemistry - Metabolic regulation of cerebral microcirculation (cats)
P01HL-06285-18 0157 Cardiovascular-respiratory physiology and biochemistry - Left ventricle outflow impedance analysis (human)
P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
P01HL-06312-17 0028 Surgical cardiology - Coronary flow in the transplanted denervated heart (dogs)
P01HL-06312-17 0049 Surgical cardiology - Long-term pulmonary vascular resistance (human)
R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
P01HL-07293-17 0051 Non-invasive cardiovascular measurements - Physiologic evaluation of duplex scanner (dogs)
P01HL-07293-17 0055 Non-invasive cardiovascular measurements - Peripheral vascular transducer position locating system
R01HL-08311-14 Effects of drugs upon myocardial hypoxia (dogs, turtles)
R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
** R01HL-08977-14 Quantitation of flow and solute flux in microvessels (cats, rats)
** R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
** R01HL-09711-13 Instantaneous blood flow in ascending aorta (human, dogs)
R01HL-10182-13 Circulatory function and electrolytic metabolism (dogs, human)
** R01HL-10330-11 Physiological mechanics of the heart and arteries (dogs, rabbits, horses)
M P01HL-10342-13 The integrated function of respiration and circulation
** R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
P01HL-10436-13 0006 A multidisciplinary study of congenital heart disease - Ventricular blood pumps and valves (human, cattle)
R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
** R01HL-11152-12 Vascular physiology (human, cats, dogs)
** R01HL-11153-12 Quantitation of flow and solute flux in microvessels (cats, rats)
** R01HL-11289-12 Analysis of stress in pulsatile dynamics
M P01HL-11351-12 Cellular and molecular mechanisms of myocardial function
P01HL-11678-11 0063 Cardiovascular dynamics and their control - Renin-angiotensin system--Control of renal hemodynamics, electrolyte excretion
** R01HL-11717-09 Effect of stenotic obstructions on flow in arteries (dogs)
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
** R01HL-12083-11 Flow field in aorta and its major branches (dogs, phantom models)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
** R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
** P01HL-12738-10 0111 Physiologic pharmacology and its clinical applications - Cardiovascular pharmacology (dogs)
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
** R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
** R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
R01HL-13134-07 Mechanism of chemoreceptor discharge (cats)
P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
** R01HL-13437-09 Physical and mechanical parameters in the microcirculation (animals)
R01HL-13454-08 Behavioral stress and cardiomyopathy (monkeys, cats)
** R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
P01HL-13737-07 0013 Assisted circulation - Incorporation of sensors (human, dogs)
** P01HL-13737-07 0034 Assisted circulation - Phasic aortic flow and cardiac output from phasic pressures (dogs)
P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
R01HL-13929-06 Single nephron response to chronic obstruction (frogs, rats)
R01HL-13936-06 Microvascular responses in hypertension (human, rats)
P50HL-14138-05 0009 Center for research on atherosclerosis - Core angiographic-diagnostic laboratory (human, dogs, birds)
M R01HL-14148-07 The regional circulations
R01HL-14148-07 0009 The regional circulations - Myocardial circulation in hypertension and atherosclerosis (human)
P50HL-14164-07 0038 A/S SCDR--Comparative and experimental atherosclerosis - Peripheral vascular studies--Cholesterol, lesion regression, vascular function

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P50HL-14187-07 0015 Pulmonary SCOR-Chemical mediators in pulmonary vascular responses Pathophysiologic responses of pulmonary capillary bed (dog, human)
** P50HL-14214-07 0026 Newborn lung center for hyaline membrane disease - Hemodynamic studies of HMO Prostaglandins production and blockers (lambs)
P50HL-14214-07 0029 Newborn lung center for hyaline membrane disease The diving reflex Perinatal asphyxia, pulmonary ischemia and HMO (sheep)
P50HL-14230-07 0094 A/S SCOR-Lipids, atherosclerosis and thrombosis Studies of atherosclerosis and regression (monkeys)
** P50HL-14236-05 0002 Prevention of premature arteriosclerosis Myocardial blood flow in patients with coronary artherosclerosis
P50HL-14236-05 0007 Prevention of premature arteriosclerosis Exercise stress testing hyperlipoprotainemia (human)
P01HL-14388-07 0157 Regulation of the circulation in pathological states Autoregulation of renal blood flow and distribution in sodium excretion control
** P01HL-14388-07 0161 Regulation of the circulation in pathological states Heterogeneity of left ventricular perfusion in awake dogs
** P01HL-14388-07 0162 Regulation of the circulation in pathological states - Phasic coronary flow and myocardial perfusion in aortic regurgitation (dogs)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
** P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0197 Regulation of the circulation in pathological states - Altered vascular reactivity in pathogenesis of spontaneous hypertension (rats)
P01HL-14388-07 0210 Regulation of the circulation in pathological states - Effects of dietary sodium on blood pressure and vascular reactivity
** P01HL-14388-07 0217 Regulation of the circulation in pathological states - Fluid mechanics of aortic flow (dogs, human)
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
** P01HL-14388-07 0221 Regulation of the circulation in pathological states - Experimental myocardial infarction (dogs)
P01HL-14388-07 0225 Regulation of the circulation in pathological states - Release of renal prostaglandins by saluretic-diuretic agents (dogs)
P01HL-14388-07 0231 Regulation of the circulation in pathological states - Mechansim of cutaneous vasodilatation in Paget's disease of bone
** P01HL-14388-07 0233 Regulation of the circulation in pathological states - Pressure-flow relationships after regression of experimental atherosclerosis
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
P01HL-14414-07 0015 Environmental influences on cardiorespiratory and cellular functions - Control of the cardiovascular system (dogs)
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
** R01HL-14645-07 Blood flow measurement by ultrasonic catheter tip methods (human, dogs)
R01HL-14914-06 Autoregulation of glomerular filtration rate (rats)
** P01HL-15194-07 0001 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, venous drainage and collateral flow (human, dogs)
** R01HL-15270-06 Local mechanical properties of the aortic tissue (dogs, pigs)
** R01HL-15390-12 Regulation of blood flow in the microcirculation
R01HL-15392-06 Autonomic and circulatory actions of anesthetics (dog, cat, rabbit, monkey)
R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
R01HL-15447-06 Vascular role of prostaglandin and cyclic nucleotides (rats)
** R01HL-15562-05 Regulation of skeletal muscle blood flow (dogs)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
** R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
** R01HL-15722-06 Hemorrheology studies related to in vivo blood flow (human)
** R01HL-15839-05 Physiological role of isorenin and kallikrein (animals)
** R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
** R01HL-16094-06 The dynamics of microcirculatory function (dogs)
** R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
R01HL-16292-05 0009 Surgery and non-obstructive coronary insufficiency Exercise and supply-demand balance (human)
R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
** P01HL-16387-04 0005 The blood vessel and thrombogenesis Fluid engineering considerations in thrombogenesis
** R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
** R01HL-16580-04 Mathematical models for studying sickle cell disease
R01HL-16582-05 Artificial lungs (dogs)
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
R01HL-16759-05 Ultrasonic measurement of cardiac geometry and flow
M P01HL-16833-04 Hemoglobin and red cell system in hemoglobinopathies
M P01HL-16851-04 Human red cell membrane in health and disease
P01HL-16851-04 0008 Human red cell membrane in health and disease - Force balance in red cell interactions (human)
P01HL-16851-04 0009 Human red cell membrane in health and disease - Blood cell properties in circulatory regulation (dogs, rabbits)
M P01HL-16910-05 Regulation of the peripheral circulation
P01HL-16910-05 0001 Regulation of the peripheral circulation - Quantitative studies of microcirculatory control (bats)
** P01HL-16910-05 0005 Regulation of the peripheral circulation - Control of circulation by baroreceptor and chemoreceptor reflexes (dog, monkey)
** P01HL-16910-05 0006 Regulation of the peripheral circulation - Regulation of blood flow distribution (baboons, dogs)
** P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS-Behavioral influences on circulation (baboons)
** P01HL-16910-05 0008 Regulation of the peripheral circulation - Circulation to bone (dogs, baboons)
** P60HL-17269-04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat)
P60HL-17269-04 0024 National heart and blood vessel research and demonstration center - Section of experimental cardiovascular surgery--Core facility
P60HL-17269-04 0032 National heart and blood vessel research and demonstration center - Clinical circulatory assist device fabrication
R01HL-17403-03 Metabolic control of cardiac output (dogs)
** R01HL-17408-03 Fresh blood rheology--Relation to cardiovascular risk (human)
** P01HL-17421-05 0002 Regulation and exchange in the microcirculation - Metabolic and myogenic blood flow regulation in microcirculation (animals)
** P01HL-17421-05 0004 Regulation and exchange in the microcirculation - Localization of flow regulation in the microcirculation (cats, human)
** P01HL-17430-05 0007 Control of coagulation - Platelet adhesion, aggregation, ultrastructure in flowing blood (human, animals)
** R01HL-17591-03 Development of electromagnetic rheoangiography (human, dogs)
R01HL-17628-03 Pulsatile pressure-flow dynamics (dogs)
P50HL-17646-04 0014 Study of ischemic heart disease - Progression of ischemic injury in conscious dogs (also rabbits)
P50HL-17648-04 0004 Study of ischemic heart disease - Radionuclide imaging studies (human, pig)
** P50HL-17648-04 0006 Study of ischemic heart disease - Ventricular performance and myocardial perfusion in obstructive coronary disease
P50HL-17648-04 0011 Study of ischemic heart disease - Surgical treatment for acute myocardial ischemia (human, dogs)
** P50HL-17648-04 0013 Study of ischemic heart disease - Fate of bypassed and bypassing vessels (dogs)
** P50HL-17648-04 0021 Study of ischemic heart disease - Biventricular contractile responses to acute myocardial infarction (mammals)
P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
P50HL-17651-04 0002 Ischemic heart disease specialized center of research - Reduction of myocardial ishemic injury by pharmacologic agents (human, dog)
P50HL-17651-04 0016 Ischemic heart disease specialized center of research - Retroperfusion of coronary venus circulation with therapeutic agents (dogs)
P50HL-17651-04 0037 Ischemic heart disease specialized center of research - Measurement of coronary venous outflow by thermodilution (human)
P50HL-17651-04 0039 Ischemic heart disease specialized center of research - Measurement and prediction of infarct size (human, dog)
P50HL-17651-04 0043 Ischemic heart disease specialized center of research - Gradual reperfusion following acute coronary occlusion (dog)
P50HL-17651-04 0044 Ischemic heart disease specialized center of research Limb blood flow after myocardial revascularization (human)
P50HL-17651-04 0045 Ischemic heart disease specialized center of research Peripheral vascular studies Pharmacology (dogs, human)
P50HL-17655-04 0001 Study of ischemic heart disease Intravenous nitroglycerin Ventricular function and infarct size (human, dog)
** P50HL-17655-04 0003 Study of ischemic heart disease Cardiopulmonary resuscitation (human, dog)
P50HL-17655-04 0006 Study of ischemic heart disease Evaluation of coronary artery bypass graft surgery (human)
** P50HL-17655-04 0014 Study of ischemic heart disease Blood flow and gas tension in myocardial ischemia and infarction (dog, monkey)
P50HL-17665-04 0021 Study of ischemic heart disease Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)
P50HL-17665-04 0027 Study of ischemic heart disease Positron imaging of regional myocardial perfusion (human, dog)
P50HL-17669-04 0012 Ischemic heart disease center (SCOR) - Circulatory assistance (human, dog)
P50HL-17670-04 0006 Study of ischemic heart disease - Assessment of coronary artery hemodynamics and myocardial blood flow (human)
P50HL-17670-04 0011 Study of ischemic heart disease - Pharmacology of ischemic myocardium (dogs)
** P50HL-17670-04 0021 Study of ischemic heart disease Enzymatic evaluation of acute myocardial infarction (dogs)
P50HL-17682-04 0005 Study of ischemic heart disease - Regional myocardial perfusion deficits and segmental contraction disorders in man
P50HL-17682-04 0007 Study of ischemic heart disease - Mechanisms of hypoxemia in myocardial infarction (human)
P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
P50HL-17682-04 0014 Study of ischemic heart disease Myocardial ischemia--Instrumentation and technique (dogs, baboons)
P50HL-17682-04 0015 Study of ischemic heart disease - Acute myocardial ischemia and infarction and their reversibility (dogs, baboons)
P50HL-17682-04 0016 Study of ischemic heart disease - Endurance exercise--Prevention and rehabilitation in ischemic heart disease (pig)
P50HL-17682-04 0020 Study of ischemic heart disease - Nucleotide and nucleoside metabolism in ischemic myocardium
P01HL-17731-04 0001 Physiological basis of pulmonary disease - Mechanisms of blood flow and ventilation (dogs)
R01HL-17732-03 Peripheral venomotor control in thermal stress (human)
R01HL-17739-04 Acute myocardial infarct scintigraphy (human, dogs, rats)
R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
R01HL-17808-03 Effect of altered oxygen affinity on oxygen transport (human, rats)
R01HL-17809-04 Effects of exercise on the coronary vasculature (rat, dog)
R01HL-17853-03 Peripheral circulation in heart failure (animals)
** R01HL-17859-04 Computational methods in cardiac fluid dynamics
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
** R01HL-17903-03 Regional circulatory responses to hypoxia (rats, cats, rabbits)
** R01HL-17932-04 Blood flow regulation in muscle (cats)
** R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
R01HL-17969-04 Function and structure of semilunar valves (dogs)
** R01HL-17998-04 Regulatory mechanisms in blood circulation (dogs)
R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
R01HL-18097-04 Pathogenesis of acute renal failure (rats)
R01HL-18145-03 Oxygen transport mechanisms in hypoxia (dogs, rats, rabbits)
M P01HL-18208-04 Center for the study of blood cell rheology
P01HL-18208-04 0004 Center for the study of blood cell rheology - Splenic microcirculation (rats, mice)
P01HL-18208-04 0006 Center for the study of blood cell rheology - Analysis of flow in arterioles and capillaries (human)
R01HL-18292-04 Vasodilation and microvascular oxygen delivery (dog, hamster)
** P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
P50HL-18318-03 0013 Pathogenesis and complications of hypertension - Humoral factors and renal function in human hypertension
R01HL-18321-03 Fluid shear or magnetic alignment of blood components (human)
P50HL-18323-04 0012 SCOR hypertension center - Renin as a risk factor (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
** R01HL-18468-03 The distribution of flow in the myocardium (dog, pig)
R01HL-18489-03 Hemodynamic interactions of vasoactive chemicals (rats)
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
R01HL-18644-03 Prosthesis for aortocoronary bypass (dogs, baboons)
R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
R01HL-18805-04 0005 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Radionuclide studies (human)
R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
** R01HL-18868-03 Development of vertebrate vascular control systems (reptiles, amphibians)
** R01HL-18948-03 Pulseless flow and circulatory assistance (dogs, calves)
R01HL-18969-02 Arterial wall oxygenation (rabbits, dogs)
R01HL-18976-03 Blood pressure control--Relation to behavioral stress (human, dog)
** R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
R01HL-19003-03 High precision densitometry of coronary angiograms
R01HL-19038-02 Plethysmographic evaluation of carotid blood flow (human, rabbits, dogs)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
R01HL-19082-01 Hypoxia-induced relaxation of vascular smooth muscle
R01HL-19091-02 Sustained increase in cardiac output (dogs)
R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
P50HL-19190-02 0006 Pulmonary SCOR--Pathophysiology, management of IRDS - Asphyxia--Respiratory control (dogs)
** P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
P01HL-19242-02 0006 Study of vascular smooth muscle - The contractile system of vascular smooth muscle (swine, rats)
** R01HL-19256-03 Arterial baroreceptors in cardiovascular control (dogs)
R01HL-19350-02 Prevention of thrombosis by applied electric fields (sheep)
R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
R01HL-19454-02 Rheological factors in transport across arterial wall (dogs)
R01HL-19463-02 Pathophysiology of acute renal failure (rats)
R01HL-19675-02 Coronary pharmacoangiography
R01HL-19677-03 Venous structure and function (dogs)
P01HL-19737-02 0006 Cellular and molecular aspects of respiratory physiology - Tissue oxygenation and mitochondrial respiratory activity (sheep)
P01HL-19737-02 0007 Cellular and molecular aspects of respiratory physiology - Average oxygen tension of tissue using radioisotopes (dogs)
P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
** P01HL-19737-02 0010 Cellular and molecular aspects of respiratory physiology - Effects of pulsatile flow and volume on capillary exchanges (dogs, rats)
R01HL-19824-02 Mass transfer in the microcirculation
** R01HL-20177-02 Effects of erythrocyte deformability on tissue perfusion (rats)
R01HL-20253-02 Effects of exercise on the heart and its blood supply (dogs)
** R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
R01HL-20401-03 Relationship of insulin to catechol cardiomyopathy (rabbit, pig)
R01HL-20428-03 The juvenile diabetic heart (human)
R01HL-20517-03 Diabetes, somatotropin, factor VIII and atherosclerosis (human, animal)
** R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood flow in hypertension (rats)
R01HL-20605-02 Microvascular responses during intestinal absorption (rats)
R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
R01HL-20634-01 Blood volume and venous return in thermal strain (human)
** R01HL-20674-02 Evaluation of cardiac function with radioactive tracers
** R01HL-20685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)
R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
R01HL-20869-01 Microvascular responses to ultrasound
R01HL-20979-02 A novel pulsed Doppler flowmeter (dogs)
P01HL-21016-02 0013 Sickle cell anemia and other hemoglobinopathies - Microcirculatory response to sickle cell treated with anti-sickling agents (rats)
** R23HL-21151-02 Ischemic myocardium--Delivery of blood flow and drugs (dogs)
** R01HL-21308-01 Prostaglandins and local control of the circulation (rats, dogs)
R23HL-21332-02 Pulsatile regulation of flow in the microcirculation (cats)
** R23HL-21434-02 Intrinsic control of coronary blood flow by chemicals (guinea pigs)
** R01HL-21451-01 Control of circulation during heat stress and fever (baboon)
R01HL-21500-02 Performance of respiratory muscles under stress (dogs)
** R23HL-21559-01 Oxygen supply and blood flow through aortic vasa vasorum (dogs)
R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction
R01HL-21859-01 Unsteady flow in arterial bifurcations (human)
R23HL-21914-01 Studies of vasomotor control (rats)
** R01HL-22118-02 Microcirculation in patients with diabetes mellitus
R01HL-22154-01 Cardiac adaptation to physical training (dog)
P01HL-22163-01 0001 Surface thrombogenesis--Mechanisms and prevention - Initial blood protein and platelet interactions with biomaterials (baboons)
P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)
** R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
R01HL-22512-01 Ultrasonic instrumentation for cardiovascular studies
R01HL-22561-01 Hormonal control of mesenteric circulation (cats)
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
** R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)
** R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))
R01HL-22778-01 Total synthesis of natural cardiotonic ionophores
R01HL-22801-01 Analysis of coronary artery behavior (dogs)
R01HL-22952-01 Validation of quantitative coronary arteriography (dogs)
** R23HL-22975-01 Dynamics of autoregulation of muscle blood flow (dogs)
R01HL-23171-01 Coronary collateral circulation in myocardial ischemia (dog, pig, rat, human)
R01HL-23239-01 Functional characteristics of pulmonary vascular smooth muscle (dogs)
R01HL-23267-01 Rheology and kinetics of hemoglobin S gelation (human)
** R01HL-23604-01 Hepatic microvascular regulatory mechanisms (rat)
N01HV-72924-04 Non-invasive detection of atherosclerotic lesions (human, animals)
N01HV-72925-04 Non-invasive detection of atherosclerotic lesions (human, monkeys, dogs)
N01HV-72929-01 Improved detection of atherosclerosis (human, dogs)
N01HV-72975-02 Energy converter for left ventrical assist devices (calves)

CARDIOVASCULAR FUNCTION, BLOOD FLOW, REACTIVE HYPEREMIA

P01HL-06312-17 0013 Surgical cardiology - Aortocoronary vein bypass grafting (human)
P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
P01HL-11678-11 0043 Cardiovascular dynamics and their control - Basic mechanisms of circulatory shock (dog)
R01HL-11876-11 Regional myocardial blood flow and metabolism (dogs, swine)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
** R01HL-15390-12 Regulation of blood flow in the microcirculation
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
P01HL-16117-05 0007 Ion movements and membranes in cardiovascular control - Physiological and molecular properties of ionophores (dogs, rabbits)
R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
P01HL-17421-05 0002 Regulation and exchange in the microcirculation - Metabolic and myogenic blood flow regulation in microcirculation (animals)
P01HL-17421-05 0004 Regulation and exchange in the microcirculation - Localization of flow regulation in the microcirculation (cats, human)
P50HL-17648-04 0011 Study of ischemic heart disease - Surgical treatment for acute myocardial ischemia (human, dogs)
P50HL-17651-04 0015 Ischemic heart disease specialized center of research - Peripheral circulation in acute myocardial ischemia and infarction (human)
P50HL-17670-04 0006 Study of ischemic heart disease - Assessment of coronary artery hemodynamics and myocardial blood flow (human)
** R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)
** R01HL-17853-03 Peripheral circulation in heart failure (animals)
** R01HL-17902-04 Mammalian renal microcirculation (hamsters)
R01HL-17932-04 Blood flow regulation in muscle (cats)
R01HL-18060-04 Exercise and coronary atherosclerotic heart disease (monkeys)
R01HL-18468-03 The distribution of flow in the myocardium (dog, pig)
R01HL-18492-03 Measurement of regional coronary flow reserve (human, dogs)
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistahce vessels in hypertension (pigs, rats)
R01HL-18805-04 0005 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Radionuclide studies (human)
R01HL-18933-03 Energy output and efficiency of left ventricle (dog)
R01HL-18977-03 Non-invasive diagnosis of peripheral arterial disease (human, dogs)
R01HL-19370-03 Coronary capillary exchange--The effects of ischemia (dogs, sheep)
R01HL-19937-02 Vasodilators in experimental myocardial infarction (dogs)
R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
R01HL-20598-03 The coronary vascular response to ischemia (dogs, pigs)
R01HL-20827-02 Effects of hypertrophy on the coronary circulation (dogs)
R01HL-21034-01 Compensatory responses to arterial occlusion (dogs)
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
R01HL-21657-01 Regional non-ischemic myocardial hypoxia (dogs)
R01HL-21843-01 Ischemia, diabetes and the microcirculation (rats, cats, hamsters)
R23HL-21914-01 Studies of vasomotor control (rats)
R01HL-22801-01 Analysis of coronary artery behavior (dogs)
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)

CARDIOVASCULAR FUNCTION, BLOOD FLOW IMPEDANCE

SEE ALSO CARDIOVASCULAR FUNCTION, VASCULAR RESISTANCE

** P01HL-06285-18 0157 Cardiovascular-respiratory physiology and biochemistry - Left ventricle outflow impedance analysis (human)
P01HL-06285-18 0158 Cardiovascular-respiratory physiology and biochemistry - Load on myocardial contractility (dogs)
P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
P01HL-10436-13 0015 A multidisciplinary study of congenital heart disease - Fetal and neonatal cardiovascular physiology (sheep)
R01HL-11919-08 Pulmonary circulation in surgical heart disease (human, dogs)
** R01HL-12607-10 Dynamics of pulsatile blood flow (human, dogs, rats)
** R01HL-16830-05 Non-invasive determination of aortic blood velocities (human)
P01HL-16833-04 0009 Hemoglobin and red cell system in hemoglobinopathies - Rheological studies of sickled cells (human)
R01HL-18259-03 Controlled intratissue release of prostaglandins
R01HL-19256-03 Arterial baroreceptors in cardiovascular control (dogs)
R01HL-20073-02 Blood compatible materials by fluid perfusion (human, dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
* Contributes significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-21103-01 Parametric mechanical studies of hypertensive arteries (dogs, rats)
R01HL-21188-02 Pulsatory water flux and endothelial cell desquamation
R01HL-21245-02 Influence of chronic exercise on hypertension (rats, primates)
** R01HL-21270-01 Correlation of arterial hemodynamics and morphology (human)
** R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
** R01HL-21859-01 Unsteady flow in arterial bifurcations (human)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
** R01HL-22455-01 Platelet concentration in the marginal layer (dogs, human)
R01HL-22801-01 Analysis of coronary artery behavior (dogs)
R01HL-22815-01 Regional myocardial function after revascularization (dogs)
R01HL-22893-01 Evaluating arterial disease by velocity-wave analysis (dogs, human)

CARDIOVASCULAR FUNCTION, BLOOD FLOW OSCILLATORY

SEE ALSO CARDIOVASCULAR FUNCTION, VASOMOTION, PULSE PRESSURE WAVES
P01HL-11310-12 9002 Mechanisms of cardiovascular disease - Core support-centralized electronic laboratory
P50HL-14192-08 0008 Specialized center of research in hypertension - New radiographic methods--Recognition of renovascular hypertension (human, dog)
R01HL-22113-02 Micro/macrovasculature in healing of foot lesions (human)
R01HL-23239-01 Functional characteristics of pulmonary vascular smooth muscle (dogs)

CARDIOVASCULAR FUNCTION, BLOOD PRESSURE

SEE ALSO CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC)
SEE ALSO CARDIOVASCULAR DISORDERS, HYPOTENSION
SEE ALSO CARDIOVASCULAR DISORDERS DIAGNOSIS, BLOOD PRESSURE GRADIENT TECHNIQUE*
SEE ALSO CARDIOVASCULAR DISORDERS DIAGNOSIS, PLETHYSMOGRAPHY*
SEE ALSO CARDIOVASCULAR FUNCTION, BLOOD FLOW IMPEDANCE
SEE ALSO CARDIOVASCULAR FUNCTION, VASCULAR RESISTANCE
SEE ALSO CARDIOVASCULAR FUNCTION, VASOMOTION, PULSE PRESSURE WAVES
R01HL-03429-18 Central nervous system and coronary heart disease (human)
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
P01HL-06835-17 0022 Cardiovascular disease - Arterial lipogenesis from glucose in the rat
P01HL-06835-17 0034 Cardiovascular disease - Studies of phospholipase A2 in serum (rats, dogs)
P01HL-06835-17 0038 Cardiovascular disease - Effect of chronic administration of angiotensin antagonist (rats)
P01HL-06835-17 0039 Cardiovascular disease - Reversibility of vascular changes in renal hypertension (rats)
P01HL-06835-17 0042 Cardiovascular disease - Myocardial hypertrophy due to renal hypertension (rats)
P01HL-06835-17 0044 Cardiovascular disease - Baroreceptors in control of blood pressure during sleep (dogs)
** P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
P01HL-06835-17 0046 Cardiovascular disease - Renin activity during salt depletion in essential hypertension (human)
P01HL-06835-17 0047 Cardiovascular disease - Spironolactone in primary aldosteroidism (human)
P01HL-06835-17 0052 Cardiovascular disease - Aortic distensibility (human)
** P01HL-06835-17 0056 Cardiovascular disease - Angiotensin analogs--Sarcosine on arterial pressure, aldosterone (dogs)
** R01HL-07723-15 Reflex control of vascular capacitance in shock
P01HL-08682-15 0015 Regulation of the cardiovascular system - Projection of autonomic nerves onto the heart (dog)
** P01HL-08682-15 0022 Regulation of the cardiovascular system - Blood pressure responses and preganglionic sympathetic outflow (cat)
** P01HL-08682-15 0023 Regulation of the cardiovascular system - Cardiovascular control--Effects of spinal pathways lesions (dog)
** P01HL-08682-15 0024 Regulation of the cardiovascular system - Morphology of the spinal sympathetic system (cat)
R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
R01HL-10612-13 0021 Humoral factors in heart failure and hypertension - The control of aldosterone secretion (dogs)
** R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
** P01HL-11310-12 0056 Mechanisms of cardiovascular disease - Cardiac output response to blood pressure reduction in infants (human)
** P01HL-11310-12 0057 Mechanisms of cardiovascular disease - Blood pressure reduction after heart surgery in adults (human)
P01HL-11310-12 0059 Mechanisms of cardiovascular disease - Contractility--Acute response to digoxin after heart surgery (children)
** P01HL-11310-12 0065 Mechanisms of cardiovascular disease - Algorithms for arterial pressure by automatic vasoactive agents control (human)
P01HL-11678-11 Cardiovascular dynamics and their control
P01HL-11678-11 0001 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (rats, dogs)
** P01HL-11678-11 0027 Cardiovascular dynamics and their control - Vasopressin and thirst in control of body fluid volumes and osmolality (dogs)
P01HL-11678-11 0031 Cardiovascular dynamics and their control - Hypertension caused by stimulation of renal sympathetic nerves (dogs)
P01HL-11678-11 0034 Cardiovascular dynamics and their control - Renal function curves in intact dogs
P01HL-11678-11 0040 Cardiovascular dynamics and their control - Control of plasma potassium concentration (dogs)
P01HL-11678-11 0059 Cardiovascular dynamics and their control - Basic hemodynamics (dogs, rats)
P01HL-11678-11 0060 Cardiovascular dynamics and their control - Salt and water balance in one kidney Goldblett hypertension (rat)
P01HL-11678-11 0064 Cardiovascular dynamics and their control - Renal medulla--Control of renal hemodynamics, electrolyte excretion (dogs)
P01HL-11678-11 0065 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (dogs)
P01HL-11678-11 0069 Cardiovascular dynamics and their control - Nervous control of the cirulation (dogs)
R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
P01HL-13262-07 0024 Arterial wall in atherosclerosis - Serial ocular changes in arteriosclerosis and hypertension
P01HL-13737-07 0013 Assisted circulation - Incorporation of sensors (human, dogs)
P50HL-14141-05 0001 SCOR for atherosclerosis in childhood - Clinical implications (infants and children)
P50HL-14159-08 0018 Specialized center of research in hypertension - Sympathetic nervous system in hypertension (rats)
P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
P50HL-14164-07 0041 A/S SCOR--Comparative and experimental atherosclerosis - Nonhuman primate pediatric atherosclerosis risk factor
P50HL-14164-07 0042 A/S SCOR--Comparative and experimental atherosclerosis - Comparative cardiology laboratory (monkeys)
** R01HL-14306-07 Quantification of arterial pressure control (dogs)
** P01HL-14388-07 0156 Regulation of the circulation in pathological states - Blood pressure with drinking to intracranial angiotensin II injections (rats)
** P01HL-14388-07 0159 Regulation of the circulation in pathological states - Early drug and diet interventions and blood pressure development (rats)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
P01HL-14388-07 0195 Regulation of the circulation in pathological states - General review of potential pathophysiologic factors in spontaneous hypertension
P01HL-14388-07 0196 Regulation of the circulation in pathological states - Altered vascular responsiveness in spontaneous hypertension (rats)
P01HL-14388-07 0202 Regulation of the circulation in pathological states - Development of hypertension in spontaneously hypertensive rats
P01HL-14388-07 0204 Regulation of the circulation in pathological states - Reflex control of vascular resistance in spontaneously hypertensive rats
P01HL-14388-07 0207 Regulation of the circulation in pathological states - Brain and renin-angiotension interaction in spontaneous hypertension (rats)
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
** P01HL-14388-07 0210 Regulation of the circulation in pathological states - Effects of dietary sodium on blood pressure and vascular reactivity
P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
P01HL-14388-07 0222 Regulation of the circulation in pathological states - Renal perfusion pressure in hypertension (rats)
P01HL-14388-07 0223 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (rats)
** P01HL-14388-07 0233 Regulation of the circulation in pathological states - Pressure-flow relationships after regression of experimental atherosclerosis
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
R01HL-14560-07 Hypertension produced by sympathetic dysfunction (human, rats)
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
** P01HL-15194-07 0019 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, bypass grafts and diastolic driving pressure (human, dogs)
** R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
R01HL-15390-12 Regulation of blood flow in the microcirculation
R01HL-15447-06 Vascular role of prostaglandin and cyclic nucleotides (rats)
R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
** P01HL-16910-05 0005 Regulation of the peripheral circulation - Control of circulation by baroreceptor and chemoreceptor reflexes (dog, monkey)
P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)
P01HL-16910-05 0008 Regulation of the peripheral circulation - Circulation to bone (dogs, baboons)
R01HL-16916-04 0011 The role of albumins in lung water accumulation - Whole body distribution and exchange of albumin (rabbits, human, monkeys)
P01HL-17421-05 0002 Regulation and exchange in the microcirculation - Metabolic and myogenic blood flow regulation in microcirculation (animals)
P01HL-17421-05 0004 Regulation and exchange in the microcirculation - Localization of flow regulation in the microcirculation (cats, human)
** P01HL-17421-05 0007 Regulation and exchange in the microcirculation - Core facilities--Fluorometric measurement methods for microcirculation
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
R01HL-17591-03 Development of electromagnetic rheoangiography (human, dogs)
R01HL-17604-03 Wearable blood pressure and ECG recording system
R01HL-17721-04 Effect of sex hormones on vascular connective tissue (rats)
P01HL-17731-04 0001 Physiological basis of pulmonary disease - Mechanisms of blood flow and ventilation (dogs)
P01HL-17731-04 0002 Physiological basis of pulmonary disease - Biomechanics of the lung (frogs, cats)
R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
** P01HL-17813-04 0008 Lung disease and the oxygenation of blood and tissue - Pulmonary regulation of systemic blood pressure (human, rabbits, rats)
R01HL-17847-04 Cardiovascular and renal functions of marmots
M P01HL-17871-04 Kidney, sodium, cardiac output, arterioles and hypertension
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
** R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R01HL-17969-04 Function and structure of semilunar valves (dogs)
** R01HL-17970-04 Vascular effects of inhibitory behavioral adaptations (dogs)
R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
P01HL-18208-04 0004 Center for the study of blood cell rheology - Splenic microcirculation (rats, mice)
P50HL-18323-04 0046 SCOR hypertension center - Coronary artery bypass surgery--Associated hypertension (human)
R01HL-18454-03 Maximal exercise testing in hyperlipidemic children
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
R01HL-18814-03 Behavioral tactics for clinical cardiac control (human)
R01HL-18823-02 Physiological correlates of conditioned blood pressure (human)
R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
R01HL-18866-02 Microvascular flow, volume, and reactivity (rats, cats)
R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)
R01HL-18947-02 Indirect mean arterial pressure (mammals)
P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)
P01HL-18974-03 0006 Experimental neurogenic hypertension program - Model of sustained arterial hypertension (cats)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
R01HL-19134-04 Angiotensin, prostaglandins, adrenergic interactions (rats, rabbits)
P50HL-19153-02 0001 SCOR--Pulmonary edemas--Eitology, pathogenesis - Prostaglandins and the lung circulation (sheep)
P50HL-19153-02 0002 SCOR--Pulmonary edemas--Eitology, pathogenesis - Lung fluid dynamics--Classical mediators and their inhibitors (sheep)
P50HL-19153-02 0003 SCOR--Pulmonary edemas--Eitology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
R01HL-19209-03 Role of AOH in experimental renal hypertension (dogs, rats)
R01HL-19256-03 Arterial baroreceptors in cardiovascular control (dogs)
R01HL-19257-03 Cardiovascular adjustment to behavioral stress (dog)
P50HL-19362-02 0011 A/S SCOR--Atherosclerosis in nonhuman primates - Chronic hypertension induced by operant conditioning techniques (baboon)
R01HL-19398-03 Regional conduction abnormalities and arrhythmias (dogs)
** R01HL-19467-03 Regulation of blood pressure (rats, dogs)
R01HL-19517-03 Synthesis of inhibitors for the study of renal renin (dogs, monkeys)
R01HL-19568-03 Hypertension--Analysis of drug and behavioral therapies (human)
R01HL-19677-03 Venous structure and function (dogs)
R01HL-19680-01 Cardiac correlates of behavioral stress in animals (dog)
P01HL-19717-02 0008 Response of the lung to injury - Experimental models of lung disease
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-19844-02 Behavioral control of essential hypertension (human)
** R01HL-19858-03 UMMC--Blood pressure precursors and consequences (human)
R01HL-19859-03 Epidemiological studies, precursors of hypertension (human)
M R01HL-19864-03 Blood pressure of children and young adults
** R01HL-19864-03 0001 Blood pressure of children and young adults - Follow up of students from Dormont, Pennsylvania
** R01HL-19864-03 0003 Blood pressure of children and young adults - Heart rate and blood pressure--Consistency in infancy (human)
R01HL-19869-03 Antecedents of adolescent hypertension (human)
** R01HL-19870-03 Hypertensive progeny--Physical and humoral precursor search
** R01HL-19922-03 Childhood determinants of blood pressure
** R01HL-19930-03 A prospective study--Blood pressure in newborn twins
R01HL-19956-03 High blood pressure in the young (human)
** R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
** R01HL-20005-03 Factors in blood pressure levels of children
R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)
R01HL-20189-01 Effects of renin on atherogenesis (rabbits)
** R01HL-20194-01 Brain catecholamines in control of blood pressure (rats)
R01HL-20219-02 Cryopreservation of the isolated heart (rats)
R01HL-20328-01 Noninvasive assessment of autonomic cardiac control (dogs)
R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
R01HL-20439-02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
R01HL-20508-03 Diabetes, hyperglycemia and cardiovascular disease (human)
R01HL-20572-02 0007 Hemodynamic relations to metabolism in hypertension - Drug effects on cardiac function and hypertropy (rats)
R01HL-20572-02 0008 Hemodynamic relations to metabolism in hypertension - Role of nervous system in hemodynamic function
R01HL-20605-02 Microvascular responses during intestinal absorption (rats)
R01HL-20662-02 Physical activity, fitness and epidemiology of CHD
R01HL-20663-02 Regulation of skin blood flow in man
** R01HL-20864-01 Postnatal maturation of cardiovascular regulatory system (minipig)
R01HL-20878-02 Cellular aspects of lung injury (rats, rabbits)
R01HL-21071-02 Mechanisms of hypertension in coarctation of the aorta (dog)
R23HL-21332-02 Pulsatile regulation of flow in the microcirculation (cats)
** R23HL-21382-02 Effect of pressure on renal blood flow and function (dogs)
R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)
R23HL-21559-01 Oxygen supply and blood flow through aortic vasa vasorum (dogs)
** R01HL-21796-01 Applied pulsatile hemodynamics in vascular surgery (dogs)
R01HL-21817-01 Catecholamines, blood pressure and circulation
R23HL-21914-01 Studies of vasomotor control (rats)
R01HL-22032-01 Cardiovascular events in hypertensives (human)
** R01HL-22069-02 Experimental renal arterial hypertension (dogs)
R01HL-22113-02 Micro/macrovasculature in healing of foot lesions (human)
R01HL-22118-02 Microcirculation in patients with diabetes mellitus
R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
** R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
R01HL-22261-01 Compliance of fluid spaces in advancing hypertension (rats)
** R01HL-22288-01 Renin and precursors--Structure and function (mice)
R01HL-22298-02 Origins of hypertension (human)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R01HL-22378-01 Psyco-somatic predictors of CHD in adolescence (human)
R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)
** R01HL-22417-01 Microprocessors in medical applications (dogs)
R01HL-22418-01 Neural control of cardio-respiratory function (cats)
** R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)
R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))
R01HL-22801-01 Analysis of coronary artery behavior (dogs)
** R01HL-22854-01 Non-invasive blood pressure measurement (rats)
R23HL-22933-01 Transvascular fluid and protein exchange in the lung (sheep)
R01HL-22952-01 Validation of quantitative coronary arteriography (dogs)
R23HL-22975-01 Dynamics of autoregulation of muscle blood flow (dogs)
R01HL-23171-01 Coronary collateral circulation in myocardial ischemia (dog, pig, rat, human)
R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)
** R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)
N01HR-62920-02 Noninvasive diagnosis of pulmonary hypertension (dog, human)

CARDIOVASCULAR FUNCTION, BLOOD VOLUME

SEE ALSO CARDIOVASCULAR DISORDERS, HYPERVOLEMIA
SEE ALSO CARDIOVASCULAR DISORDERS, HYPOVOLEMIA
SEE ALSO CARDIOVASCULAR DISORDERS DIAGNOSIS, PLETHYSMOGRAPHY*
SEE ALSO HEART FUNCTION, INTRACARDIAC VOLUME
N01HI-02216-10 To develop biological flow NMR concept (human, mammals non human)
R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
** P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
P01HL-06835-17 0046 Cardiovascular disease - Renin activity during salt depletion in essential hypertension (human)
** P01HL-06835-17 0051 Cardiovascular disease - Cardiopulmonary volume in hypertension (human)
P01HL-06835-17 0059 Cardiovascular disease - Metyrapone-induced hypertension in dog
R01HL-07723-15 Reflex control of vascular capacitance in shock
P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
P01HL-08682-15 0026 Regulation of the cardiovascular system - Hypertension--High renin vs low renin (dog)
P01HL-08682-15 0038 Regulation of the cardiovascular system - Control of pulmonary circulation (dogs)
P01HL-08899-14 0080 Tolerance to respiratory gases in health and disease - Dynamic quantitation of continuous isobaric gas embolization
R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
P01HL-10342-13 0006 The integrated function of respiration and circulation - Lung inflation effects on pulmonary vasculature and interstitial space (dogs)
P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
** R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
P01HL-11310-12 0060 Mechanisms of cardiovascular disease - Effect of left atrium on the circulation--Simulation
P01HL-11678-11 0001 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (rats, dogs)
** P01HL-11678-11 0027 Cardiovascular dynamics and their control - Vasopressin and thirst in control of body fluid volumes and osmolality (dogs)
** P01HL-11678-11 0040 Cardiovascular dynamics and their control - Control of plasma potassium concentration (dogs)
P01HL-11678-11 0043 Cardiovascular dynamics and their control - Basic mechanisms of circulatory shock (dog)
P01HL-11678-11 0057 Cardiovascular dynamics and their control - Return of urine to circulation using cystico-caval shunt (dogs)
P01HL-11678-11 0059 Cardiovascular dynamics and their control - Basic hemodynamics (dogs, rats)
** P01HL-11678-11 0065 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (dogs)
P01HL-11678-11 0068 Cardiovascular dynamics and their control - Basic hemodynamics (rats, dogs)
R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
R01HL-13237-09 Erythrocytes during early development (human, animals)
** R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
R01HL-13623-08 Atrial receptors (dogs)
R01HL-13634-08 Renal hypertension in pregnancy (sheep)
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
P50HL-14187-07 0015 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pathophysiologic responses of pulmonary capillary bed (dog, human)
P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in ROS (sheep, cat)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0232 Regulation of the circulation in pathological states - Idiopathic cyclic edema
R01HL-14529-07 Systems analysis of baroreflex (dogs)
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
P01HL-16910-05 0006 Regulation of the peripheral circulation - Regulation of blood flow distribution (baboons, dogs)
R01HL-16916-04 0002 The role of albumins in lung water accumulation - Lung water balance--Forces, models and albumin concentrations (rabbits, dogs)
R01HL-17503-03 Vascular bubbles in decompression sickness (minipig, dog, goat)
P50HL-17665-04 0027 Study of ischemic heart disease - Positron imaging of regional myocardial perfusion (human, dog)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P50HL-17669-04 0013 Ischemic heart disease center (SCOR) - Exercise in patients with ischemic heart disease
R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)
R01HL-17902-04 Mammalian renal microcirculation (hamsters)
R01HL-17931-04 Normalized body surface potential maps (children)
** R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)
P50HL-18318-03 0001 Pathogenesis and complications of hypertension - Core clinical program
P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
P50HL-18318-03 0010 Pathogenesis and complications of hypertension - Hemodynamics in mineralocorticoid and low renin hypertension (human)
P50HL-18318-03 0011 Pathogenesis and complications of hypertension - Adrenergic function--Renin and mineralocorticoid activity (human)
** P50HL-18323-04 0042 SCOR hypertension center - Blood viscosity and blood volume in hypertensive disease (human, dog)
P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
R01HL-18624-03 Study of kinins in hypertension and other diseases (human)
** R01HL-18866-02 Microvascular flow, volume, and reactivity (rats, cats)
R01HL-18882-02 Hormones in hypertension (human)
R01HL-18891-02 Electrolyte intake and blood pressure in hypertension (human)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
P50HL-19155-02 0001 Pathophysiology of pulmonary edema - Pulmonary edema study unit (human, dog)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
** R01HL-19209-03 Role of ADH in experimental renal hypertension (dogs, rats)
R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)
R01HL-19486-03 Dipole moment measurement of cardiac mass (rabbits, pigs)
** P01HL-19737-02 0010 Cellular and molecular aspects of respiratory physiology - Effects of pulsatile flow and volume on capillary exchanges (dogs, rats)
R01HL-20177-02 Effects of erythrocyte deformability on tissue perfusion (rats)
** R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
P01HL-20581-01 0005 Vascular neuroeffector mechanisms in health and disease - Changes in the neuroeffector mechanism in hypertension (rabbits)
R01HL-20607-02 Tissue analysis by mass spectrometer (dogs)
R01HL-20634-01 Blood volume and venous return in thermal strain (human)
R01HL-20979-02 A novel pulsed Doppler flowmeter (dogs)
** R01HL-21094-01 Arterial baroreceptors and renal function (dogs)
R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
R01HL-21245-02 Influence of chronic exercise on hypertension (rats, primates)
R01HL-21282-01 Dynamics of interstitial space in whole animals (rats)
R01HL-21436-02 Autonomic control of renal function (cats)
R01HL-21498-02 Pathophysiology of edema (rats, cats)
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
** R01HL-21893-01 Blood volume distribution in hypertension (human)
R01HL-21948-01 Capillary, tissue volume and lymph flow in lung edema (sheep, cattle)
R01HL-22261-01 Compliance of fluid spaces in advancing hypertension (rats)
** R01HL-22371-01 Vascular changes in lung exposed to radiation
R01HL-22482-01 Circulatory hemodynamics and sodium excretion (dogs)
R01HL-22506-01 Hemodynamics of the clinical hypertensions
R01HL-22917-01 Microvascular pressures in the intact beating heart (rabbits)
R23HL-22933-01 Transvascular fluid and protein exchange in the lung (sheep)
R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
R01HL-23015-01 Mechanisms of hypo-oncotic pulmonary edema (human, dogs)
R01HL-23201-01 Mechanisms of hypertension (human, rats)
R01HL-23239-01 Functional characteristics of pulmonary vascular smooth muscle (dogs)
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

CARDIOVASCULAR FUNCTION, VASCULAR RESISTANCE

SEE ALSO CARDIOVASCULAR FUNCTION, BLOOD FLOW IMPEDANCE

R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
R01HL-05883-18 0002 Reflex control of resistance and capacitance vessels - Adenosine, adenine nucleotides and vascular smooth muscle (dog)
P01HL-06285-18 0128 Cardiovascular-respiratory physiology and biochemistry - Pulmonary circulation in fetal lambs in utero
** P01HL-06312-17 0046 Surgical cardiology - The relationship of prostaglandins to heart disease
** P01HL-06312-17 0049 Surgical cardiology - Long-term pulmonary vascular resistance (human)
P01HL-06664-17 0010 Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
P01HL-06664-17 0034 Cardiopulmonary function in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
P01HL-06835-17 0040 Cardiovascular disease - Benign and malignant phase of renal hypertension (dogs)
P01HL-06835-17 0053 Cardiovascular disease - Vasodilating drugs (human)
P01HL-06835-17 0059 Cardiovascular disease - Metyrapone-induced hypertension in dog
P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
** R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
P01HL-08682-15 0023 Regulation of the cardiovascular system - Cardiovascular control--Effects of spinal pathways lesions (dog)
P01HL-08682-15 0026 Regulation of the cardiovascular system - Hypertension--High renin vs low renin (dog)
P01HL-08682-15 0038 Regulation of the cardiovascular system - Control of pulmonary circulation (dogs)
P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Dirofilaria immitis in the dog
R01HL-10009-13 Regional lung function in man
P01HL-10342-13 0027 The integrated function of respiration and circulation - Control of respiration--Cardiovascular adjustment to hypoxia and carbon monoxide
P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
P01HL-10436-13 0015 A multidisciplinary study of congenital heart disease - Fetal and neonatal cardiovascular physiology (sheep)
R01HL-10834-09 Fetal and neonatal pulmonary circulation (goats)
R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
R01HL-10942-09 Study of genetic hypertension in rats
P01HL-11310-12 0061 Mechanisms of cardiovascular disease - Computer simulation of transposition of great arteries in infants
P01HL-11678-11 0001 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (rats, dogs)
P01HL-11678-11 0051 Cardiovascular dynamics and their control - Transient glomerular filtration dynamics (dogs)
P01HL-11678-11 0058 Cardiovascular dynamics and their control - Overall control of the circulation--Computer analysis
P01HL-11678-11 0063 Cardiovascular dynamics and their control - Renin-angiotensin system--Control of renal hemodynamics, electrolyte excretion
** P01HL-11678-11 0068 Cardiovascular dynamics and their control - Basic hemodynamics (rats, dogs)
R01HL-11717-09 Effect of stenotic obstructions on flow in arteries (dogs)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-11919-08 Pulmonary circulation in surgical heart disease (human, dogs)
R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
P01HL-12738-10 0111 Physiologic pharmacology and its clinical applications - Cardiovascular pharmacology (dogs)
P01HL-13108-09 0020 Clinical heart transplantation - Autonomic neural studies in the denervated heart (human)
P01HL-13108-09 0022 Clinical heart transplantation - Studies on cardiac receptors (human)
R01HL-13634-08 Renal hypertension in pregnancy (sheep)
P01HL-13737-07 0009 Assisted circulation - Analytical models
P50HL-14214-07 0026 Newborn lung center for hyaline membrane disease - Hemodynamic studies of HMD Prostaglandins production and blockers (lambs)
P50HL-14230-07 0088 A/S SCOR Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
** P01HL-14388-07 0165 Regulation of the circulation in pathological states - Vascular resistance in experimental atherosclerosis in Rhesus monkeys
P01HL-14388-07 0166 Regulation of the circulation in pathological states - Elastic changes in abdominal aorta with atherosclerosis (Rhesus monkeys)
P01HL-14388-07 0186 Regulation of the circulation in pathological states - Angiotensin in modulation of neurogenic vasoconstriction
P01HL-14388-07 0197 Regulation of the circulation in pathological states - Altered vascular reactivity in pathogenesis of spontaneous hypertension (rats)
** P01HL-14388-07 0198 Regulation of the circulation in pathological states - Humoral factors in vascular reactivity in spontaneously hypertensive rats
P01HL-14388-07 0199 Regulation of the circulation in pathological states - Adrenergic stimulation in spontaneously hypertensive rats
P01HL-14388-07 0201 Regulation of the circulation in pathological states - Central sympathetic discharge in spontaneously hypertensive rats
P01HL-14388-07 0202 Regulation of the circulation in pathological states - Development of hypertension in spontaneously hypertensive rats
P01HL-14388-07 0203 Regulation of the circulation in pathological states - Activation of sympathetic nervous systems in spontaneously hyperactive rats
** P01HL-14388-07 0204 Regulation of the circulation in pathological states - Reflex control of vascular resistance in spontaneously hypertensive rats
** P01HL-14388-07 0209 Regulation of the circulation in pathological states - Neural regulation of vascular resistance in human hypertension
** P01HL-14388-07 0210 Regulation of the circulation in pathological states - Effects of dietary sodium on blood pressure and vascular reactivity
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
R01HL-14529-07 Systems analysis of baroreflex (dogs)
R01HL-14560-07 Hypertension produced by sympathetic dysfunction (human, rats)
** R01HL-14944-07 Renal vascular reactivity in hypertensive patient
** P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
P01HL-14985-07 0015 Adaptation to hypoxia - Pregnancy at high altitude (human, animals)
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
R01HL-15270-06 Local mechanical properties of the aortic tissue (dogs, pigs)
R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-15562-05 Regulation of skeletal muscle blood flow (dogs)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
** R01HL-15694-06 Pulmonary factors in circulatory regulation
R01HL-16094-06 The dynamics of microcirculatory function (dogs)
R01HL-16292-05 0017 Surgery and non-obstructive coronary insufficiency - Cardiopulmonary resuscitation (human)
R01HL-16292-05 0018 Surgery and non-obstructive coronary insufficiency - Unavoidable subendocardial perfusion caused by venting and hypothermia (dogs)
R01HL-16292-05 0019 Surgery and non-obstructive coronary insufficiency - Distortion of subendocardial vessels in infant hearts (dogs)
R01HL-16292-05 0021 Surgery and non-obstructive coronary insufficiency - Pulsatile assistance on subendocardial perfusion during bypass (dogs)
R01HL-16328-06 Membrane electrical properties of vascular muscle (human, animals)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
R01HL-16656-06 Left ventricular function in exercise (dogs)
** R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
P01HL-16851-04 0009 Human red cell membrane in health and disease - Blood cell properties in circulatory regulation (dogs, rabbits)
P01HL-16910-05 0002 Regulation of the peripheral circulation - Coronary circulation (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-16910-05 0006 Regulation of the peripheral circulation Regulation of blood flow distribution (baboons, dogs)
** P60HL-17269-04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat)
R01HL-17335-05 Contractile properties of hypertensive arterioles (rats)
R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
R01HL-17403-03 Metabolic control of cardiac output (dogs)
P01HL-17417-05 0005 Experimental lung transplantation - Lung transplantation in bilateral emphysema (dogs)
R01HL-17628-03 Pulsatile pressure-flow dynamics (dogs)
P50HL-17646-04 0013 Study of ischemic heart disease - Maintenance of myocardial vascular integrity after revascularization (dogs)
P50HL-17646-04 0014 Study of ischemic heart disease - Progression of ischemic injury in conscious dogs (also rabbits)
P50HL-17651-04 0015 Ischemic heart disease specialized center of research - Peripheral circulation in acute myocardial ischemia and infarction (human)
P50HL-17651-04 0044 Ischemic heart disease specialized center of research - Limb blood flow after myocardial revascularization (human)
P50HL-17651-04 0045 Ischemic heart disease specialized center of research - Peripheral vascular studies--Pharmacology (dogs, human)
P50HL-17655-04 0003 Study of ischemic heart disease - Cardiopulmonary resuscitation (human, dog)
P50HL-17665-04 0012 Study of ischemic heart disease - Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog
P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)
P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human)
P50HL-17667-04 0022 Study of ischemic heart disease - Preventing myocardial injury in surgery using cardiopulmonary bypass (human, rat)
P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
P50HL-17669-04 0012 Ischemic heart disease center (SCOR) - Circulatory assistance (human, dog)
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
R01HL-17732-03 Peripheral venomotor control in thermal stress (human)
R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
R01HL-17853-03 Peripheral circulation in heart failure (animals)
M P01HL-17871-04 Kidney, sodium, cardiac output, arterioles and hypertension
** P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
R01HL-17903-03 Regional circulatory responses to hypoxia (rats, cats, rabbits)
R01HL-17932-04 Blood flow regulation in muscle (cats)
R01HL-17944-03 Studies in lung preservation (dogs)
R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
** R01HL-17970-04 Vascular effects of inhibitory behavioral adaptations (dogs)
R01HL-18080-03 Extrinsic control of intestinal microcirculation (dogs)
R01HL-18156-02 Hemodynamics in curved arteries
P50HL-18318-03 0010 Pathogenesis and complications of hypertension - Hemodynamics in mineralocorticoid and low renin hypertension (human)
P50HL-18323-04 0042 SCOR hypertension center - Blood viscosity and blood volume in hypertensive disease (human, dog)
P50HL-18323-04 0046 SCOR hypertension center - Coronary artery bypass surgery--Associated hypertension (human)
P50HL-18323-04 0047 SCOR hypertension center - Transcendental meditation and self-hypnosis--Hypertension treatment (human)
** R01HL-18426-04 Regulation of renal hemodynamics (dogs)
M P01HL-18575-03 Mechanisms of vascular changes in hypertension
** P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
** P01HL-18575-03 0006 Mechanisms of vascular changes in hypertension - Evaluation of arterial compliance in hypertension (human, pigs)
** P01HL-18575-03 0011 Mechanisms of vascular changes in hypertension - Chemistry laboratory core facility
R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
R01HL-18866-02 Microvascular flow, volume, and reactivity (rats, cats)
R01HL-18875-03 Angiotension, prostaglandins, pressure and the kidney (rats)
P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)
P01HL-18974-03 0006 Experimental neurogenic hypertension program - Model of sustained arterial hypertension (cats)
P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)
R01HL-18979-02 Mechanisms in local regulation of coronary flow (rabbits)
** R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
** R01HL-19012-03 Smooth muscle of resistance vessels in hypertension (rats)
R01HL-19027-03 Calcium and cyclic AMP in causation of hypertension (rats)
** R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
R01HL-19091-02 Sustained increase in cardiac output (dogs)
P50HL-19155-02 0004 Pathophysiology of pulmonary edema - Physical and chemical effects of multiple pulmonary emboli (sheep)
P50HL-19190-02 0008 Pulmonary SCOR--Pathophysiology, management of IRDS - Hemodynamics and gas exchange--Determinants of hypotension (human, infant)
R01HL-19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
R01HL-19218-03 Local regulation of coronary flow by prostaglandins (rabbits)
R01HL-19225-02 0003 Types and mechanims of pulmonary hypertension - Cardiopulmonary function in pigs and rats
P01HL-19242-02 0006 Study of vascular smooth muscle - The contractile system of vascular smooth muscle (swine, rats)
R01HL-19252-02 Vascular connective tissue--Role in atherosclerosis (rabbits)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)
R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
** R01HL-19677-03 Venous structure and function (dogs)
R01HL-19680-01 Cardiac correlates of behavioral stress in animals (dog)
R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
R01HL-20080-02 Surgically induced myocardial edema (dogs)
R01HL-20124-02 Coronary risk factors (human)
R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
** R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
** R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
R01HL-20572-02 0001 Hemodynamic relations to metabolism in hypertension - Hemodynamic and myocardial functional studies in the SHR (rat)
** R01HL-20648-01 Physical factors and coronary flow (dogs)
R01HL-20690-02 Pulmonary hemodynamics in lung edema during PEEP (dogs)
** R01HL-20719-02 Cold induced pulmonary hypertension (cattle)
** R01HL-20768-02 Mechanisms of circulatory regulation in heart failure (guinea pigs)
R01HL-20782-01 Coronary flow regulation by adenosine (rats, dogs)
R01HL-20829-02 Fluid mechanics of heart valve prostheses (dogs, human)
R01HL-20895-03 0008 Cineangiographic studies of cardiovascular system - Intercoronary anastomotic circulation--Stenosis and occlusion (dogs)
R01HL-20895-03 0010 Cineangiographic studies of cardiovascular system - Cortical necrosis and acute renal failure (human, dogs, rats, rabbits)
R01HL-20895-03 0011 Cineangiographic studies of cardiovascular system - Ventricular hypertrophy and preoutflow contraction (human, dogs)
R01HL-21030-01 Calcium regulation and hypertension (rats)
R01HL-21034-01 Compensatory responses to arterial occlusion (dogs)
R23HL-21066-02 Angiotensin and prostaglandin control of aldosterone (rats)
R01HL-21103-01 Parametric mechanical studies of hypertensive arteries (dogs, rats)
R01HL-21187-01 Potassium, norepinephrine, and coronary arterial tone (dogs)
R01HL-21188-02 Pulsatory water flux and endothelial cell desquamation
R01HL-21245-02 Influence of chronic exercise on hypertension (rats, primates)
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
** R23HL-21332-02 Pulsatile regulation of flow in the microcirculation (cats)
R01HL-21498-02 Pathophysiology of edema (rats, cats)
** R01HL-21523-01 Hemodynamic effects of dietary sodium in man
R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
R01HL-21578-01 Effect of exercise upon the hypertensive adolescent
R01HL-21657-01 Regional non-ischemic myocardial hypoxia (dogs)
R01HL-21893-01 Blood volume distribution in hypertension (human)
R23HL-21943-01 Capillary morphology in pulmonary edema (dogs)
R01HL-22005-01 Intermittent retroperfusion of ischemic myocardium (dogs)
R01HL-22069-02 Experimental renal arterial hypertension (dogs)
** R01HL-22149-01 Morphologic examination of brain parenchymal vessels (cats)
** R01HL-22216-02 Vascular mechanisms in renal hypertension (dogs)
R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
** R01HL-22244-01 Cardiopulmonary bypass and the vascular endothelium (dogs)
R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)
R01HL-22546-02 Baroreceptor reflex mechanisms in man
R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)
R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
** R23HL-22728-01 Neural control of renin secretion (dogs)
R01HL-22801-01 Analysis of coronary artery behavior (dogs)
R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R01HL-22917-01 Microvascular pressures in the intact beating heart (rabbits)
R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)
R23HL-22975-01 Dynamics of autoregulation of muscle blood flow (dogs)
** R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
** R01HL-23171-01 Coronary collateral circulation in myocardial ischemia (dog, pig, rat, human)
R01HL-23201-01 Mechanisms of hypertension (human, rats)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)
R01HL-23232-01 Effect of hypoxia on PVSM and its precursor cells
R01HL-23239-01 Functional characteristics of pulmonary vascular smooth muscle (dogs)
** R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)
R01HL-23600-01 Ions, water, and hypertension (human, dogs, rats)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)
R01HL-23982-01 Control of coronary flow by carbon dioxide tension (dogs)

CARDIOVASCULAR FUNCTION, VASOMOTION

SEE ALSO CARDIOVASCULAR AGENTS, VASOACTIVE AGENTS (GENERAL)
SEE ALSO CARDIOVASCULAR DISORDERS, VASOSPASM

** R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
R01HL-01755-25 Fetal and neonatal cardiovascular function (sheep)
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
M P01HL-08682-15 Regulation of the cardiovascular system
P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
** P01HL-10342-13 0024 The integrated function of respiration and circulation - Cytochrome P450 and physiological response to hypoxia (rats)
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
P01HL-12738-10 0042 Physiologic pharmacology and its clinical applications - Centrogenic cardiac arrhythmias (cats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-13187-09 Central neural control of cardiovascular function (cats)
R01HL-13634-08 Renal hypertension in pregnancy (sheep)
P01HL-14388-07 0166 Regulation of the circulation in pathological states - Elastic changes in abdominal aorta with atherosclerosis (Rhesus monkeys)
P01HL-14388-07 0184 Regulation of the circulation in pathological states - Vestibular reflexes in control of circulation (human)
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
P01HL-14388-07 0234 Regulation of the circulation in pathological states - Effects of antiarrhythmic drugs on the autonomic system (dogs)
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
** R01HL-14944-07 Renal vascular reactivity in hypertensive patient
** P01HL-15194-07 0018 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, metabolic demand and vasodilatory reserve (human, dogs)
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
R01HL-15562-05 Regulation of skeletal muscle blood flow (dogs)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
** P01HL-15835-06 0019 Study of muscles related to heart disease - Vascular smooth muscle--Electron microscopy, excitation contraction (animal)
R01HL-16003-08 Sources and roles of calcium in smooth muscle excitation (rats)
R01HL-16094-06 The dynamics of microcirculatory function (dogs)
P01HL-16117-05 0008 Ion movements and membranes in cardiovascular control - Arterial smooth muscle calcium fluxes and contractility (rabbits)
** R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
R01HL-16328-06 Membrane electrical properties of vascular muscle (human, animals)
M P01HL-16910-05 Regulation of the peripheral circulation
P01HL-16910-05 0001 Regulation of the peripheral circulation - Quantitative studies of microcirculatory control (bats)
P01HL-16910-05 0006 Regulation of the peripheral circulation - Regulation of blood flow distribution (baboons, dogs)
R01HL-17591-03 Development of electromagnetic rheoangiography (human, dogs)
** P50HL-17646-04 0014 Study of ischemic heart disease - Progression of ischemic injury in conscious dogs (also rabbits)
R01HL-17732-03 Peripheral venomotor control in thermal stress (human)
** P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)
R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
R01HL-18516-03 Atherosclerosis and the arterial contractile proteins (pigs, rabbits)
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
P01HL-18575-03 0007 Mechanisms of vascular changes in hypertension - Microscopy of hypertensive arterial lesions (rats)
R01HL-18831-03 Microscopy of spontaneously hypertensive arterial lesion (rats)
R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
R01HL-18866-02 Microvascular flow, volume, and reactivity (rats, cats)
R01HL-18873-02 Early radiologic diagnosis of cardiac failure (monkey)
R01HL-18976-03 Blood pressure control--Relation to behavioral stress (human, dog)
R01HL-18979-02 Mechanisms in local regulation of coronary flow (rabbits)
R01HL-19134-04 Angiotensin, prostaglandins, adrenergic interactions (rats, rabbits)
R01HL-19144-03 Contraceptive steroids and experimental hypertension (rats)
** R01HL-19218-03 Local regulation of coronary flow by prostaglandins (rabbits)
R01HL-19226-03 Vascular smooth muscle in hypertension (rats)
R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)
R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
** R01HL-20163-02 Competitive coronary flow in native and graft vessels (dog)
** R01HL-20206-02 Carbohydrates nucleotides and adrenergic interactions (rabbits, cats, rats)
R01HL-20226-02 Cardiac bypass and coronary collateral physiology (dogs)
R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
** R01HL-20648-01 Physical factors and coronary flow (dogs)
R01HL-20685-02 Pituitary-adrenergic overlap vasomotor interaction (dogs)
R01HL-20782-01 Coronary flow regulation by adenosine (rats, dogs)
** R01HL-20800-17 Neural basis of respiratory and vasomotor activity (cats)
P01HL-21016-02 0013 Sickle cell anemia and other hemoglobinopathies - Microcirculatory response to sickle cell treated with anti-sickling agents (rats)
R23HL-21066-02 Angiotensin and prostaglandin control of aldosterone (rats)
** R01HL-21187-01 Potassium, norepinephrine, and coronary arterial tone (dogs)
R01HL-21270-01 Correlation of arterial hemodynamics and morphology (human)
** R23HL-21298-02 Coronary vasomotion (dogs, pigs)
R23HL-21421-01 Myocardial and vascular contractility and cyclic nucleotides (cattle, rats)
R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
** R23HL-21914-01 Studies of vasomotor control (rats)
R01HL-22149-01 Morphologic examination of brain parenchymal vessels (cats)
R01HL-22486-01 Enzyme regulation in cultured arterial cells (swine)
R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
R01HL-22740-01 Behavior and cardiovascular disease--Basic mechanisms (human)
R01HL-22801-01 Analysis of coronary artery behavior (dogs)
R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis
R23HL-22975-01 Dynamics of autoregulation of muscle blood flow (dogs)
** R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
R01HL-23201-01 Mechanisms of hypertension (human, rats)

CARDIOVASCULAR FUNCTION, VASOMOTION, PULSE PRESSURE WAVES

** R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
** R01HL-10330-11 Physiological mechanics of the heart and arteries (dogs, rabbits, horses)
R01HL-11289-12 Analysis of stress in pulsatile dynamics
R01HL-11919-08 Pulmonary circulation in surgical heart disease (human, dogs)
** R01HL-12083-11 Flow field in aorta and its major branches (dogs, phantom models)
** R01HL-12607-10 Dynamics of pulsatile blood flow (human, dogs, rats)
P01HL-13737-07 0013 Assisted circulation - Incorporation of sensors (human, dogs)
P01HL-13737-07 0034 Assisted circulation - Phasic aortic flow and cardiac output from phasic pressures (dogs)
** P01HL-13737-07 0035 Assisted circulation - Mapping the geometry and elasticity of the aorta
P01HL-13737-07 0036 Assisted circulation - Assessment of infarct size from hemodynamic measurements
** P50HL-14164-07 0038 A/S SCOR--Comparative and experimental atherosclerosis - Peripheral vascular studies--Cholesterol, lesion regression, vascular function
P50HL-14164-07 0042 A/S SCOR--Comparative and experimental atherosclerosis - Comparative cardiology laboratory (monkeys)
R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
P01HL-17421-05 0004 Regulation and exchange in the microcirculation - Localization of flow regulation in the microcirculation (cats, human)
** R01HL-17628-03 Pulsatile pressure-flow dynamics (dogs)
P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)
R01HL-18976-03 Blood pressure control--Relation to behavioral stress (human, dog)
R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
R01HL-19406-03 Grading of atherosclerosis by CW doppler ultrasound (human, dogs)
** R23HL-21332-02 Pulsatile regulation of flow in the microcirculation (cats)
R01HL-22113-02 Micro/macrovasculature in healing of foot lesions (human)
R01HL-22178-01 Lung airway properties by acoustic impulse reflection
R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
** R01HL-22604-01 Non-invasive system for arteriosclerosis studies (human)
R01HL-23239-01 Functional characteristics of pulmonary vascular smooth muscle (dogs)
N01HR-62920-02 Noninvasive diagnosis of pulmonary hypertension (dog, human)

CARDIOVASCULAR INFECTIONS

SEE ALSO BLOOD TOXICOLOGY, BACTEREMIA SEPTICEMIA
SEE ALSO HEART DISORDERS, ENDOCARDITIS BACTERIAL
SEE ALSO HEART DISORDERS, RHEUMATIC HEART DISEASE

** P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
** R01HL-18152-03 Vascular injury and atherosclerosis (mice, coxsackievirus)

CARDIOVASCULAR NEOPLASMS

SEE NEOPLASMS OF CARDIOVASCULAR SYSTEM

CARDIOVASCULAR PHARMACOLOGY

SEE ALSO CARDIOVASCULAR DISORDERS CHEMOTHERAPY

R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
R01HL-01486-23 Quantitative study of T-wave mechanisms (human, rabbits, dogs, chickens)
R01HL-01813-25 Regulation of metabolism by drugs and hormones (rats)
** R01HL-02953-17 Autonomic and cardiovascular pharmacology (rats, rabbits, dogs, guinea pigs)
** R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
P01HL-04664-18 0012 Cardiovascular and lung dynamics - Quantitative single plane left ventricular angiography (human)
R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
** R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
R01HL-05883-18 0002 Reflex control of resistance and capacitance vessels - Adenosine, adenine nucleotides and vascular smooth muscle (dog)
** R01HL-05883-18 0003 Reflex control of resistance and capacitance vessels - Cardiac glycosides and sympathetic nerve terminals in vascular smooth muscle
** R01HL-05883-18 0004 Reflex control of resistance and capacitance vessels - Left ventricular receptors with nonmedullated vagal afferents (cats)
P01HL-06285-18 0125 Cardiovascular-respiratory physiology and biochemistry - Myocardial function in the fetal and neonatal lamb
P01HL-06285-18 0126 Cardiovascular-respiratory physiology and biochemistry - Ventricular output, foramen ovale and ductus arteriosus flows (lambs)
P01HL-06285-18 0130 Cardiovascular-respiratory physiology and biochemistry - Ductus arteriosus--Morphological development (human, lambs)
P01HL-06285-18 0132 Cardiovascular-respiratory physiology and biochemistry - Umbilical-placental circulatory responses (lambs)
** P01HL-06285-18 0135 Cardiovascular-respiratory physiology and biochemistry - Beta-adrenergic agents and fetal cardiovascular dynamics (lambs)
P01HL-06285-18 0147 Cardiovascular-respiratory physiology and biochemistry - Metabolic regulation of cerebral microcirculation (cats)
** P01HL-06285-18 0153 Cardiovascular-respiratory physiology and biochemistry - Myocardial mechanics and pharmacology in isolated papillary muscle (animals)
P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
P01HL-06285-18 0158 Cardiovascular-respiratory physiology and biochemistry - Load on myocardial contractility (dogs)
P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
M P01HL-06296-18 Cardiovascular and pulmonary adaptation to stress
** P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
P01HL-06296-18 0007 Cardiovascular and pulmonary adaptation to stress - Cardiovascular control during isometric exercise (cats)
P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P01HL-06308-18 0039 Mechanisms and therapy of circulatory disease - ANS in regulation of electrophysiology--Role of cyclic nulceotides (animals)
R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
** R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
P01HL-08682-15 0021 Regulation of the cardiovascular system - Hypoglycemia in pathogenesis of shock (dog)
P01HL-08682-15 0022 Regulation of the cardiovascular system - Blood pressure responses and preganglionic sympathetic outflow (cat)
P01HL-08682-15 0026 Regulation of the cardiovascular system - Hypertension--High renin vs low renin (dog)
R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
** R01HL-09283-14 Pharmacology of molluscan hearts (also rabbits)
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
** P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
P01HL-10436-13 0015 A multidisciplinary study of congenital heart disease - Fetal and neonatal cardiovascular physiology (sheep)
P01HL-10539-12 0068 Pathophysiology of circulation - Acute and chronic cardiomyopathies (mice, dogs, hamsters, human)
R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
R01HL-10942-09 Study of genetic hypertension in rats
M P01HL-11310-12 Mechanisms of cardiovascular disease
P01HL-11310-12 0062 Mechanisms of cardiovascular disease - Myocardial depressant factor in postoperative cardiac dysfunction (human, dogs)
P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
** P01HL-11310-12 0068 Mechanisms of cardiovascular disease - Pharmacological intervention and myocarcial oxygen consuption (human, dogs)
P01HL-11310-12 0078 Mechanisms of cardiovascular disease - Ventricular arrhythmias in acute myocardial infarction (dogs)
** P01HL-11310-12 0079 Mechanisms of cardiovascular disease - Electrophysiological studies of complete heart block (human)
P01HL-11310-12 0081 Mechanisms of cardiovascular disease - Analysis of regional left ventricular function (human)
** P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
P01HL-11310-12 0092 Mechanisms of cardiovascular disease - Exercise electrophysiology (human)
P01HL-11310-12 0102 Mechanisms of cardiovascular disease - Cardiac membrane and ion mobility (dogs)
P01HL-11351-12 0001 Cellular and molecular mechanisms of myocardial function - Ionic control of myocardial contractility (animals)
P01HL-11351-12 0010 Cellular and molecular mechanisms of myocardial function - Basic ionic exchange studies (rats)
P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
** R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
M P01HL-12373-10 Cardiopulmonary physiology and pathophysiology
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
** P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
R01HL-12647-08 Inactivation of norepinephrine in vascular tissue
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
R01HL-12684-09 Angiotensin I and converting enzyme in hypertension (human, primates, dogs)
M P01HL-12738-10 Physiologic pharmacology and its clinical applications
** P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
** P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
** P01HL-12738-10 0044 Physiologic pharmacology and its clinical applications - Cardioactive drugs and electrophysiological properties of cardiac cells (sheep)
** P01HL-12738-10 0080 Physiologic pharmacology and its clinical applications - Electrophysiology of cardiac muscle in the mitral valve (monkeys)
** P01HL-12738-10 0109 Physiologic pharmacology and its clinical applications - Effects of calcium blockers on skeletal and cardiac muscle (cats)
** P01HL-12738-10 0110 Physiologic pharmacology and its clinical applications - Physiology and pharmacology of arrhythmias (dogs)
** P01HL-12738-10 0111 Physiologic pharmacology and its clinical applications - Cardiovascular pharmacology (dogs)
** P01HL-12738-10 0132 Physiologic pharmacology and its clinical applications - Coronary occlusions and arrhythmias (dogs)
** P01HL-12738-10 0133 Physiologic pharmacology and its clinical applications - Pharmacologic antagonism of beta-adrenergic blockade (dogs)
R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
M P01HL-13108-09 Clinical heart transplantation
** P01HL-13108-09 0008 Clinical heart transplantation - Physiology and pharmacology of the transplanted human heart
** P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
** P01HL-13108-09 0018 Clinical heart transplantation - Electrophysiologic studies of cardiac drugs in the denervated heart
R01HL-13187-09 Central neural control of cardiovascular function (cats)
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
** R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
** R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
R01HL-13349-06 Analysis of activation process in heart muscle (guinea pigs, rabbits, human)
** R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
R01HL-13936-06 Microvascular responses in hypertension (human, rats)
R01HL-14127-16 Methemoglobinemia and antihypertensive drugs (cats, mice, rats)
P50HL-14147-08 0012 Specialized center of research in thrombosis - Tissue culture study of arterial cells (human, hamster)
** P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
M P50HL-14187-07 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses
P50HL-14187-07 0012 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
** P50HL-14187-07 0015 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pathophysiologic responses of pulmonary capillary bed (dog, human)
M P50HL-14192-08 Specialized center of research in hypertension
** P50HL-14192-08 0003 Specialized center of research in hypertension - Prostaglandins as mediators of renin secretion (human, dog)
** P50HL-14192-08 0005 Specialized center of research in hypertension - New techniques for recognition of renovascular hypertension (human, dogs)
P50HL-14192-08 0007 Specialized center of research in hypertension - Role of new mineralocorticoids in hypertension (human, rats)
P50HL-14217-08 0049 Specialized center of research in thrombosis - Fibrinolysis section--Clinical studies
P50HL-14217-08 0051 Specialized center of research in thrombosis - Microcirculation section (bat, hamster)
P50HL-14217-08 0054 Specialized center of research in thrombosis - Coagulation section--Platelet aggregation (human, pig, rabbit, dog)
** P50HL-14217-08 0061 Specialized center of research in thrombosis - Pharmacology--Comparison of platelets and vascular smooth muscle (animal)
P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in RDS (sheep, cat)
M P01HL-14388-07 Regulation of the circulation in pathological states
P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
** P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
R01HL-14509-07 Hypertension--Chemistry and biophysics of angiotensin
R01HL-14545-06 Mechanics of compensatory ventricular hypertrophy (dogs)
R01HL-14571-05 Myocardial preservation and coronary reperfusion (baboons, dogs)
R01HL-14614-07 Voltage control of contraction in heart (sheep)
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
** R01HL-14706-07 Fetal hearts in organ culture (mice)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
** R01HL-14775-08 Mechanisms of drug action in vascular smooth muscle (dog, rabbits)
** R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
R01HL-14944-07 Renal vascular reactivity in hypertensive patient
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
** P60HL-15160-07 0016 Center for sickle cell disease - Kinin and plasmin system in sickle cell disease (human)
** P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
P01HL-15194-07 0019 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, bypass grafts and diastolic driving pressure (human, dogs)
R01HL-15247-05 Extending the life of implanted pacemakers (dogs, human)
R01HL-15270-06 Local mechanical properties of the aortic tissue (dogs, pigs)
R01HL-15308-07 Assays for peptides of lipoproteins (human)
** R01HL-15444-06 Neonatal development of adrenergic receptor mechanisms (pigs)
R01HL-15498-06 Effects of physical training on heart (rats)
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-15607-06 Physiological control of splanchnic circulation (dogs)
R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
R01HL-15696-06 Mechanism and role of cyclic GMP in heart (animals)
R01HL-15740-06 In vitro studies on heart cell function (rats)
** R01HL-15758-06 Catecholamine release in the heart (dogs)
P01HL-15835-06 0025 Study of muscles related to heart disease - Cellular biology of vascular smooth muscle (guinea pig)
R01HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
R01HL-15965-06 Experimental atherosclerosis and elastin metabolism (chicks)
R01HL-15983-04 Regional myocardial blood flow (dogs)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
** R01HL-15991-05 Evaluation of heart stimulants in sea anemones
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
** R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
** R01HL-16094-06 The dynamics of microcirculatory function (dogs)

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M P01HL-16117-05 Ion movements and membranes in cardiovascular control
P01HL-16117-05 0005 Ion movements and membranes in cardiovascular control - Properties of isolated cell membranes (rabbits, cats)
P01HL-16117-05 0006 Ion movements and membranes in cardiovascular control - Neuroreceptors and cellular excitation (fish)
** P01HL-16117-05 0007 Ion movements and membranes in cardiovascular control - Physiological and molecular properties of ionophores (dogs, rabbits)
R01HL-16135-05 Mechanisms of cardiac autorhythmicity (dogs, bats)
R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
R01HL-16240-05 The cardiac histamine receptor (rabbits, guinea pigs)
** R01HL-16292-05 0010 Surgery and non-obstructive coronary insufficiency - Effects of exercise on flow distribution (dogs)
** R01HL-16292-05 0017 Surgery and non-obstructive coronary insufficiency - Cardiopulmonary resuscitation (human)
R01HL-16318-21 Biochemistry and pharmacology of Na-K transport
R01HL-16436-04 Role of calcium and thyroxine in heart function (rats)
R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)
** R01HL-16474-05 Antibiotic-ion interactions (model membranes)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
** R01HL-16549-04 Cardiotonic steroid-NaK ATPase interactions (cattle)
R01HL-16588-05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
M P01HL-16607-05 Calcium ion and control of cardiovascular function
P01HL-16607-05 0003 Calcium ion and control of cardiovascular function - Calcium transport in sarcoplasmic membranes (animals)
R01HL-16611-04 Digitalis-receptor of the heart (guinea pigs, rats)
R01HL-16643-02 Fluorocarbon emulsions as artificial blood (animals)
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-16678-03 Fluorescent probe studies of heart muscle proteins (rabbit, dog)
** R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
P01HL-16910-05 0002 Regulation of the peripheral circulation - Coronary circulation (dogs)
** P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
P60HL-17269-04 0018 National heart and blood vessel research and demonstration center - Mitochondria and energetics (rabbits, dogs)
** P60HL-17269-04 0022 National heart and blood vessel research and demonstration center - Medicinal chemistry (rabbit, dog, guinea pig)
** P60HL-17269-04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat)
P60HL-17269-04 0024 National heart and blood vessel research and demonstration center - Section of experimental cardiovascular surgery--Core facility
R01HL-17341-03 Practical total synthesis of prostaglandins
R01HL-17401-03 Mechanisms in angiotensin induced hypertension (cats, dogs)
R01HL-17403-03 Metabolic control of cardiac output (dogs)
R01HL-17451-05 Digitalis effects on cardiac automaticity mechanisms
** R01HL-17459-03 Myocardial ischemia (dogs)
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
R01HL-17555-05 Distribution and metabolism of labeled digitaloids (dogs, guinea pigs)
R01HL-17591-03 Development of electromagnetic rheoangiography (human, dogs)
** R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
M P50HL-17646-04 Study of ischemic heart disease
P50HL-17646-04 0005 Study of ischemic heart disease - Biochemical markers and mediators of myocardial ischemic injury
P50HL-17646-04 0009 Study of ischemic heart disease - Regional metabolic derangements indicating ischemia (rabbit, dog, human)
P50HL-17646-04 0010 Study of ischemic heart disease - Compliance in ischemic myocardium - Altered cardiac performance (human, dogs)
P50HL-17646-04 0012 Study of ischemic heart disease - Role of microcirculation in progression of myocardial ischemic injury (rat)
P50HL-17646-04 0013 Study of ischemic heart disease - Maintenance of myocardial vascular integrity after revascularization (dogs)
** P50HL-17646-04 0014 Study of ischemic heart disease - Progression of ischemic injury in conscious dogs (also rabbits)
** P50HL-17646-04 0016 Study of ischemic heart disease - Humoral factors in ischemic heart rhythm, mechanical performance (dog, rabbit)
** P50HL-17646-04 0017 Study of ischemic heart disease - Dysrhythmia associated with acute myocardial infarction (human, cat)
P50HL-17648-04 0014 Study of ischemic heart disease - Antidysrhythmic drugs and mammalian cardiac Purkinje fibers (sheep, dog)
** P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
M P50HL-17651-04 Ischemic heart disease specialized center of research
** P50HL-17651-04 0002 Ischemic heart disease specialized center of research - Reduction of myocardial ishemic injury by pharmacologic agents (human, dog)
** P50HL-17651-04 0022 Ischemic heart disease specialized center of research - Electrophysiology--Mechanism and pharmacology of arrhythmias (human, dog)
** P50HL-17651-04 0045 Ischemic heart disease specialized center of research - Peripheral vascular studies--Pharmacology (dogs, human)
P50HL-17665-04 0008 Study of ischemic heart disease - Core laboratory--CPK isoenzyme measurement and myocardial necrosis evaluation
P50HL-17665-04 0012 Study of ischemic heart disease - Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog
P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)
** P50HL-17667-04 0031 Study of ischemic heart disease - Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey)
P50HL-17669-04 0007 Ischemic heart disease center (SCOR) - Relationship between myocardial depression and compliance (dogs, cats)
P50HL-17669-04 0008 Ischemic heart disease center (SCOR) - Segmental ventricular dysfunction during stress-induced ischemia (dog, human)
P50HL-17669-04 0011 Ischemic heart disease center (SCOR) - Lysosomal function and lysosomal enzymes in normal and ischemic heart (rabbit)
P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
** P50HL-17670-04 0011 Study of ischemic heart disease - Pharmacology of ischemic myocardium (dogs)
P50HL-17682-04 0005 Study of ischemic heart disease - Regional myocardial perfusion deficits and segmental contraction disorders in man
** P50HL-17682-04 0015 Study of ischemic heart disease - Acute myocardial ischemia and infarction and their reversibility (dogs, baboons)
** P50HL-17682-04 0020 Study of ischemic heart disease - Nucleotide and nucleoside metabolism in ischemic myocardium
** P50HL-17682-04 0021 Study of ischemic heart disease - Prostaglandin biosynthesis in blood vessels from ischemic myocardium (rat, sheep)
R01HL-17729-04 Stimulus-response coupling in platelets (human)
** R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
R01HL-17747-04 Endothelial injury and regeneration (rats)
** R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
** R01HL-17796-04 Importance of aminosugars in digitalis activity (cats, rabbits)
R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
** R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R01HL-17976-18 Chemical agents and heart glycolytic enzymes (sheep)
R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
R01HL-17993-04 0007 Ventricular dynamics from surgically inserted markers - Digitalis after coronary artery surgery (human)
** R01HL-18003-05 Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)
** R01HL-18004-02 Transport through arterial wall - Biophysical aspects (rabbits)
** R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
R01HL-18019-04 The endocrine kidney in hypertension (mice)
** R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
R01HL-18080-03 Extrinsic control of intestinal microcirculation (dogs)
R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
R01HL-18190-03 Myocardial blood flow in acute myocardial infarction (human, dogs)
R01HL-18245-03 Transition state analog inhibitors of thrombin (human, cattle)
** R01HL-18272-03 Heart adenyl cyclase complex (beef heart)
** R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
** P50HL-18318-03 0014 Pathogenesis and complications of hypertension - Arterial metabolism and atherogenesis (rat, rabbit)
** P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
** P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
P50HL-18323-04 0037 SCOR hypertension center - Adrenocortical factors in childhood hypertension
P50HL-18323-04 0043 SCOR hypertension center - Pharmacology-Renin-aldosterone mechanisms in essential hypertension (human)
** P50HL-18323-04 0044 SCOR hypertension center - Angiotensin blockade to identify angiotensin II factor in hypertension (human)
R01HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
** R01HL-18468-03 The distribution of flow in the myocardium (dog, pig)
R01HL-18517-03 Intrinsic innervation of the heart (dogs)
** R01HL-18554-03 Taurine metabolism in mammalian heart (rodents, cattle, swine)
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
** P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
R01HL-18598-03 Role of Na, K-ATPase inhibition on digitalis action
** R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
** R01HL-18624-03 Study of kinins in hypertension and other diseases (human)
** P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
R01HL-18647-03 Ischemic myocardial injury in cultured heart cells (rats)
R01HL-18657-03 Pharmacologic studies on neurogenic digitalis effects (human, cats, dogs)
R01HL-18682-03 Protein kinase and cholesterol metabolism in aorta (rabbits)
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
R01HL-18749-03 Ventricular mechanics in the overloaded heart (dogs)
** R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
** R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
P01HL-18827-02 0005 Platelet vessel wall interactions in thrombogenesis - Platelet vessel wall interactions in thrombogenesis (human)
P50HL-18828-03 0002 Specialized center of research in thrombosis - Endothelial cell biology (human, guinea pig)
R01HL-18831-03 Microscopy of spontaneously hypertensive arterial lesion (rats)
R01HL-18866-02 Microvascular flow, volume, and reactivity (rats, cats)
** R01HL-18887-03 Hypolipidemic drugs--Effects on FFA-albumin association (human, cattle)
** R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)
R01HL-18943-03 Contractile activity of single cardiac cells
R01HL-18948-03 Pulseless flow and circulatory assistance (dogs, calves)
R01HL-18994-03 Substance P--Occurrence, pharmacology and physiology (mammals non-human, human)
R01HL-19000-03 Irreversible myocardial injury (rats)
** R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
R01HL-19044-03 Effect of drugs on development of cardiac failure (cats)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)

(contd)

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R01HL-19066-03 Synthesis and evaluation of prostaglandin metabolites (guinea pigs)
R01HL-19076-03 Vagal control of heart rate--A biophysical model (rabbits)
R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
R01HL-19129-04 Cardiac glycosides--Mechanisms of cellular actions
P50HL-19153-02 0001 SCOR--Pulmonary edemas--Eitology, pathogenesis - Prostaglandins and the lung circulation (sheep)
P50HL-19153-02 0002 SCOR--Pulmonary edemas--Eitology, pathogenesis - Lung fluid dynamics--Classical mediators and their inhibitors (sheep)
** P50HL-19153-02 0003 SCOR--Pulmonary edemas--Eitology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
R01HL-19181-02 Regulation of heart cAMP-dependent protein kinase (rodents)
R01HL-19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
R01HL-19216-03 Characterization of cardiac pacemaker activity (cat, dog, rabbit)
R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
P01HL-19259-03 0004 Digoxin-specific antibody in human therapy - Digitalis-specific antibodies pharmacological studies (human, dogs, sheep)
** R01HL-19275-03 Characterization of collateral blood vessels (dogs)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
** R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)
R01HL-19370-03 Coronary capillary exchange--The effects of ischemia (dogs, sheep)
** R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
** R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
R01HL-19398-03 Regional conduction abnormalities and arrhythmias (dogs)
** R01HL-19399-02 Atherosclerosis--Early events and regression factors (rats)
R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
M R01HL-19451-03 Functional characteristics of the left heart
R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL-19487-03 Cardiac actions of digitalis (dogs, cats)
R01HL-19539-03 Pathology of hypertensive-associated arteritis (rabbits)
** R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
** R01HL-19820-02 The chemistry and biological effects of heparin (Rhesus, human, other mammals)
R01HL-19898-03 Desferrioxamine therapy in thalassemia (dogs, rats, children)
R01HL-19961-03 Management of hemosiderosis in thalassemia (children, adults)
R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)
** R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
** R01HL-20199-02 Drug-induced alterations in infarct size in the rat
R01HL-20226-02 Cardiac bypass and coronary collateral physiology (dogs)
R01HL-20230-02 Analysis of the action potential of cardiac muscle (sheep)
R01HL-20262-02 Cardiac glycosides and the mechanism of the sodium-potassium pump
R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
** R01HL-20369-03 The effect of alcohol on the heart (rats)
R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
** R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
R01HL-20401-03 Relationship of insulin to catechol cardiomyopathy (rabbit, pig)
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
** R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
** R01HL-20439-02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
** R01HL-20476-03 Effects of diabetes on cardiac performance (rat)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
R01HL-20563-02 Restoring microcirculation after platelet aggregation
R01HL-20572-02 0001 Hemodynamic relations to metabolism in hypertension - Hemodynamic and myocardial functional studies in the SHR (rat)
R01HL-20572-02 0008 Hemodynamic relations to metabolism in hypertension - Role of nervous system in hemodynamic function
M P01HL-20581-01 Vascular neuroeffector mechanisms in health and disease
** P01HL-20581-01 0001 Vascular neuroeffector mechanisms in health and disease - Vascular neuroeffector mechanism (rabbits)
** P01HL-20581-01 0003 Vascular neuroeffector mechanisms in health and disease - Cerebrovascular neuroeffector characteristics (animals)
** P01HL-20581-01 0004 Vascular neuroeffector mechanisms in health and disease - Neuroeffector characteristics of mesenteric and pulmonary blood vessels (rabbits)
** R01HL-20604-03 Sympathectomy--Cardiovascular and molecular pharmacology (animals)
R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
R01HL-20643-02 Analysis of heart cell contraction (rats)
** R01HL-20685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)
R01HL-20754-02 Anesthetic-induced myocardial depression (rabbits)
R01HL-20895-03 0002 Cineangiographic studies of cardiovascular system - Coronary disease--Regional myocardial blood flow (human, dog)
R01HL-20895-03 0007 Cineangiographic studies of cardiovascular system - Determinants of collateral formation (dogs, hamsters)
P01HL-20984-02 0001 Cellular mechanisms in cardiac hypertrophy - Contractile proteins in cardiac hypertrophy (rabbits, calves)
** P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
P01HL-21016-02 0013 Sickle cell anemia and other hemoglobinopathies - Microcirculatory response to sickle cell treated with anti-sickling agents (rats)
R23HL-21083-02 Pharmacokinetics of digoxin and digitoxin in humans (rats)
R01HL-21105-02 Organ specific drugs--Cardiovascular and renal effects (dogs)
R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
R01HL-21182-02 Active tension and shortening in cardiac hypertrophy (rabbits)
R01HL-21195-02 Innervation of the heart--Acetylcholine receptors (frogs)
R23HL-21196-02 Digitalis induced arrhythmia and NAO KO-atpase activity (dogs)
R01HL-21245-02 Influence of chronic exercise on hypertension (rats, primates)
R23HL-21262-02 Sodium-calcium interactions in mammalian myocardium (rabbits, cats)
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
R23HL-21325-02 Sarcomere kinematics in cardiac contraction (rats, rabbits)
R23HL-21368-02 Perinatal cardiac electrophysiology (dogs)
R01HL-21429-02 Transport of LDL in arterial wall (human, mammals)
R01HL-21438-02 Structure and permeability of arterial endothelium (pigs)
R01HL-21457-01 C(17)-side group geometry and cardenolide activity (cats, guinea pigs)
R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
R01HL-21476-02 Anticoagulant drug absorption interactions (rats)
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
R23HL-21559-01 Oxygen supply and blood flow through aortic vasa vasorum (dogs)
R01HL-21654-01 Autonomic determinants of arrhythmia due to ischemia (cats)
** R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
R01HL-21735-01 Electrophysiology after healed myocardial infarction (cats)
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
R01HL-21751-02 0001 Thallium and antimyosin in ischemia and infarction - In vitro models of ischemia and infarction (rats, mice)
R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction
R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies--Ischemia and infarction
** R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
R01HL-21817-01 Catecholamines, blood pressure and circulation
R01HL-21877-01 Iso-renins in the hypertensive rat
R23HL-21950-01 Endothelial cell mechanisms in vascular disease (human)
** R01HL-21969-01 Prevention of myocardial hypoxia during by-pass (rats, mice, squirrels)
R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)
R01HL-21994-01 Structure and development of regenerating capillaries (rabbits, chick embryo)
R01HL-22064-02 Glycogen metabolism in anoxic diabetic myocardium (rats)
R01HL-22069-02 Experimental renal arterial hypertension (dogs)
R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)
R01HL-22098-01 Is postoperative infarction due to reperfusion injury? (human, dogs)
R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)
R01HL-22216-02 Vascular mechanisms in renal hypertension (dogs)
R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease
R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
R01HL-22265-02 Isozymes of heart glutamate aspartate transaminase (swine, ducks)
R01HL-22269-01 Excitation-contraction coupling in enlarged hearts (rabbits)
R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)
** R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
** R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
R01HL-22445-01 Platelet inhibitors--Effect on coronary bypass grafts (dogs)
R01HL-22455-01 Platelet concentration in the marginal layer (dogs, human)
R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)
R01HL-22484-01 Neural control of cardiac conduction and excitation (dogs)
R01HL-22506-01 Hemodynamics of the clinical hypertensions
R01HL-22522-01 Cardioselectivity of beta-adrenoceptor antagonists
** R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
R01HL-22581-02 Neurocirculatory control in diabetes mellitus (human)
R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)
R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
R01HL-22685-01 Drugs and excitation-contraction coupling in heart (animals)
R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))
R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)
R01HL-22732-01 Central organization of cardiac afferent nerves (cats, monkeys)
R01HL-22783-01 Hemodynamic induction of intimal fibromuscular lesion
R01HL-22801-01 Analysis of coronary artery behavior (dogs)
R01HL-22815-01 Regional myocardial function after revascularization (dogs)
** R01HL-22862-01 CNS-mediated effects of antiarrhythmic drugs (dogs)
R01HL-22896-01 Immediate metabolic fates of kinins and angiotensins (rat, rabbit, guinea pig)
** R01HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)
R23HL-22959-01 Heart development in inherited cardiomyopathy (hamsters)
R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)
R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)
R01HL-23171-01 Coronary collateral circulation in myocardial ischemia (dog, pig, rat, human)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
** R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)
** R01HL-23599-01 Mechanisms of ischemic rhythm disorders (dogs)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)
R01HL-23604-01 Hepatic microvascular regulatory mechanisms (rat)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-23624-01 Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs)
R01HL-23726-01 Treatment of ventricular arrhythmias with propranolol (human)
R01HL-23980-01 Effects of digoxin therapy in newborn and adult sheep
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses
N01HV-22915-11 Establishment of lipid research clinic
N01HV-72939-01 Develop and evaluate left heart assist blood pumps (human, calves, pigs)

CARDIOVASCULAR PROSTHESIS

SEE ALSO HEART PROSTHESIS
P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
R01HL-17751-03 Experimental endocarditis (rabbits)
** R01HL-18639-03 Human anatomy for cardiac prostheses (human)
R01HL-22008-01 Left ventricular calcium content and contractility (rats)
M P01HL-22163-01 Surface thrombogenesis--Mechanisms and prevention
** P01HL-22163-01 0001 Surface thrombogenesis--Mechanisms and prevention - Initial blood protein and platelet interactions with biomaterials (baboons)
** P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)
** P01HL-22163-01 9001 Surface thrombogenesis--Mechanisms and prevention - Polymers for studing blood-material interactions core
** R01HL-22338-01 Platelet adhesion and aggregation in a flow chamber (human)
** R01HL-22661-01 Chronic total cardiopulmonary mechanical substitution (sheep)
N01HV-42961-06 Evaluation of biomaterials in contact with blood (dogs)
N01HV-72919-01 Test polymers for circulatory assist devices

CARDIOVASCULAR PROSTHESIS, BLOOD VESSELS PROSTHESIS

P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
** P01HL-06312-17 0048 Surgical cardiology - Use of an adjustable pulmonary artery band (dogs)
** P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
** P01HL-13737-07 0032 Assisted circulation - The dynamic aortic patch (human, dogs)
P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
P01HL-13738-08 0005 Cardiac assist devices and artificial hearts - Development of new materials for artificial heart and assist devices (sheep, dog)
** R01HL-13803-07 Advanced cardiac valvular and vascular prosthesis (dogs, baboons)
R01HL-14126-17 Effect of function on grafts and implants of collagen (dogs, monkeys)
P01HL-15195-04 0004 Program project in biological materials - Biological evaluation and surface interaction studies (dogs)
** P01HL-16387-04 0006 The blood vessel and thrombogenesis - Mechanism of delayed vessel graft failure (dogs, rabbits)
R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
R01HL-18441-03 Guidelines for polymers acting as elastin substitutes
P01HL-18576-03 0001 Thrombosis research program project - Platelet damage from physical forces and artificial surfaces (human)
** P01HL-18576-03 0010 Thrombosis research program project - Evaluation of non-thrombogenic materials (cattle)
** R01HL-18644-03 Prosthesis for aortocoronary bypass (dogs, baboons)
** R01HL-18764-03 Biosorbable thromboresistant surfaces (dogs, rats, swine, human)
R01HL-20163-02 Competitive coronary flow in native and graft vessels (dog)
** R01HL-21001-01 Protein and thrombus deposition on vascular grafts
** R23HL-21805-01 Tissue cell interactions with vascular prostheses (human, rats, mice)
** R01HL-22110-02 Healing complications in vascular grafting (dogs)
** R01HL-22445-01 Platelet inhibitors--Effect on coronary bypass grafts (dogs)
R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces
N01HV-12060-18 Tissue cultured endothelium for vascular prosthetic devices (human, animals)
** N01HV-42928-07 Continued development of carbon film deposits for prosthetics
** N01HV-62911-04 Vena cava ring tests of biomaterials in dogs

CARDIOVASCULAR SHUNTS ABNORMAL

SEE CARDIOVASCULAR DISORDERS, ARTERIOVENOUS SHUNTS ABNORMAL
SEE CONGENITAL ABNORMALITIES, CARDIOVASCULAR SHUNTS ABNORMAL

CARDIOVASCULAR SHUNTS DUCTUS ARTERIOSUS EMBRYONIC

SEE CARDIOVASCULAR SYSTEM, DUCTUS ARTERIOSUS EMBRYONIC

CARDIOVASCULAR SHUNTS NORMAL

SEE CARDIOVASCULAR SYSTEM, ARTERIOVENOUS ANASTOMOSIS NORMAL

CARDIOVASCULAR SHUNTS SURGICAL

SEE CARDIOVASCULAR SURGERY, CARDIOVASCULAR SHUNTS

CARDIOVASCULAR SURGERY

SEE ALSO BLOOD TREATMENT, BLOOD FILTERS
SEE ALSO CEREBROVASCULAR SURGERY
SEE ALSO HEART SURGERY
** P01HL-11310-12 0064 Mechanisms of cardiovascular disease - Extracardiac anatomical correction of transposition of great arteries (puppies)
R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
P60HL-17269-04 0004 National heart and blood vessel research and demonstration center - Atherosclerosis--Clinical surgical aspects (human)
** P60HL-17269-04 0024 National heart and blood vessel research and demonstration center - Section of experimental cardiovascular surgery--Core facility
R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)
R01HL-18639-03 Human anatomy for cardiac prostheses (human)
** R01HL-18815-03 Surgical vascular disorders (human, dogs)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-20251-02 A novel approach to nonthrombogenic polymer surfaces (sheep, cattle)
R01HL-20313-02 Surface-induced thrombosis--Modification of albumin variants (human, goat)
R01HL-20354-02 Direct determination of oxygen tension in the clinical environment (human, dogs)
R01HL-20895-03 0004 Cineangiographic studies of cardiovascular system - Cineangiography--Coronary lesions and ventricular function (human)
R01HL-20898-02 Ultrasonic evaluation in direct arterial surgery (models, cattle, human)
** R01HL-21796-01 Applied pulsatile hemodynamics in vascular surgery (dogs)
** N01HV-32978-08 Collaborative studies on coronary artery surgery
** N01HV-32984-10 Collaborative studies on coronary artery surgery (human)

CARDIOVASCULAR SURGERY, BLOOD VESSELS RESTORATION

P01HL-13738-08 0005 Cardiac assist devices and artificial hearts - Development of new materials for artificial heart and assist devices (sheep, dog)
R01HL-21796-01 Applied pulsatile hemodynamics in vascular surgery (dogs)

CARDIOVASCULAR SURGERY, BLOOD VESSELS RESTORATION, ENDARTECTOMY

P01HL-07293-17 0058 Non-invasive cardiovascular measurements - Peripheral duplex scanner physiologic evaluation
R01HL-14126-17 Effect of function on grafts and implants of collagen (dogs, monkeys)
R01HL-20898-02 Ultrasonic evaluation in direct arterial surgery (models, cattle, human)

CARDIOVASCULAR SURGERY, CARDIOVASCULAR SHUNTS

SEE ALSO CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST
SEE ALSO CARDIOVASCULAR SURGERY, EXTRACORPOREAL CIRCULATION
SEE ALSO LIVER CIRCULATION, VENOUS BYPASS OF LIVER
P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
** P50HL-17648-04 0013 Study of ischemic heart disease - Fate of bypassed and bypassing vessels (dogs)
** R01HL-18644-03 Prosthesis for aortocoronary bypass (dogs, baboons)
** R01HL-20037-02 Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle)
R01HL-21796-01 Applied pulsatile hemodynamics in vascular surgery (dogs)
** R01HL-22783-01 Hemodynamic induction of intimal fibromuscular lesion

CARDIOVASCULAR SURGERY, CARDIOVASCULAR SHUNTS, ARTERIOVENOUS (GENERAL)

** P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center Morphologic analysis of vascular prosthesis (human, dogs)
P01HL-11310-12 0091 Mechanisms of cardiovascular disease Noninvasive techniques in cardiovascular diagnosis (human)
P01HL-11310-12 9001 Mechanisms of cardiovascular disease Core support hospital beds
P01HL-22163-01 0002 Surface thrombogenesis Mechanisms and prevention Laser-scattering detection of microemboli in blood flow (baboons)
R01HL-22259-01 Modification of susceptibility to oxygen poisoning (rats)
** R01HL-22741-01 Arteriovenous connections in extremity revascularization (dogs)

CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST

SEE ALSO CARDIOVASCULAR SURGERY, EXTRACORPOREAL CIRCULATION
SEE ALSO HEART PROSTHESIS, AUXILIARY
SEE ALSO HEART RESUSCITATION
** P01HL-06312-17 0040 Surgical cardiology - Left ventricle assist (dogs)
** P01HL-06312-17 0042 Surgical cardiology - Right ventricular assist device (sheep)
** P01HL-06312-17 0043 Surgical cardiology - The cylindrical ventricular assist device (dogs)
P01HL-10539-12 0069 Pathophysiology of circulation - Ventricular compliance and mechanics in intact ventricles (human)
M P01HL-13330-08 Mechanical circulatory support
** P01HL-13330-08 0031 Mechanical circulatory support - Hemodynamics of cardiac prosthesis
** P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and evaluation of left ventricular bypass pumps (human, cattle)
** P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
** P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
** P01HL-13330-08 0062 Mechanical circulatory support - CORE facilities
M P01HL-13737-07 Assisted circulation
** P01HL-13737-07 0002 Assisted circulation - U-shaped mechanical auxiliary ventricle (dogs)
** P01HL-13737-07 0005 Assisted circulation - Piezoelectric assist device (animals)
** P01HL-13737-07 0007 Assisted circulation - Determination of cardiac status by use of balloon pump (dogs)
** P01HL-13737-07 0008 Assisted circulation - Phase-shift balloon pumping alternate designs
** P01HL-13737-07 0009 Assisted circulation - Analytical models
** P01HL-13737-07 0013 Assisted circulation - Incorporation of sensors (human, dogs)
** P01HL-13737-07 0024 Assisted circulation - Dynamic prosthetic myocardium (dogs)
** P01HL-13737-07 0025 Assisted circulation - Driving system based on quantitative criteria (human, dogs)
** P01HL-13737-07 0026 Assisted circulation - Hemostatic mechanism (human, dogs)
** P01HL-13737-07 0027 Assisted circulation - Optimization of cardiac assistance (dogs)
** P01HL-13737-07 0028 Assisted circulation - Clinical studies of intraaortic balloon pumping
** P01HL-13737-07 0030 Assisted circulation - Myocardial ischemia--Effects of phase-shift balloon pumping (dogs)
** P01HL-13737-07 0031 Assisted circulation - Myocardial ischemia--Biochemical changes (dogs)
** P01HL-13737-07 0032 Assisted circulation - The dynamic aortic patch (human, dogs)
** P01HL-13737-07 0034 Assisted circulation - Phasic aortic flow and cardiac output from phasic pressures (dogs)
** P01HL-13737-07 0036 Assisted circulation - Assessment of infarct size from hemodynamic measurements
** P01HL-13737-07 0039 Assisted circulation - Computer controlled intraortic balloon pumping
M P01HL-13738-08 Cardiac assist devices and artificial hearts
** P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
** P01HL-13738-08 0004 Cardiac assist devices and artificial hearts - Hematological evaluation of prosthetic materials (calves)
** P01HL-13738-08 0005 Cardiac assist devices and artificial hearts - Development of new materials for artificial heart and assist devices (sheep, dog)
** P60HL-17269-04 0029 National heart and blood vessel research and demonstration center - Clinical application of circulatory assistance (human)
** P60HL-17269-04 0030 National heart and blood vessel research and demonstration center - Cardiovascular engineering laboratories (human)
R01HL-18672-03 Dynamic studies of clot structure formation (human)
** R01HL-18948-03 Pulseless flow and circulatory assistance (dogs, calves)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** N01HV-42914-13 Solenoid left ventricular assist system (cattle)
** N01HV-53006-06 Evaluation of model VII left ventricular assist device (human)
** N01HV-53008-07 Left ventricular assist device--Clinical evaluation (human)
** N01HV-72918-01 Test polymers for circulatory assist devices
** N01HV-72919-01 Test polymers for circulatory assist divices
** N01HV-72934-01 Oevelopment of a left heart assist blood pumps (human, cattle)
** N01HV-72936-00 Left heart assist device development (human, cattle)
** N01HV-72937-00 Left heart assist blood pumps (calves)
** N01HV-72938-01 Oevelopment of a left heart assist blood pump
** N01HV-72939-01 Oevelop and evaluate left heart assist blood pumps (human, calves, pigs)
** N01HV-72971-01 Energy converters to control heart assist devices (human, cattle)
** N01HV-72975-02 Energy converter for left ventrical assist devices (calves)
** N01HV-72976-02 Energy converters to control heart assist devices (human, cattle)

CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, BLOOD OXYGENATORS

** R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
P01HL-13330-08 0031 Mechanical circulatory support - Hemodynamics of cardiac prosthesis
P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and evaluation of left ventricular bypass pumps (human, cattle)
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
** R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
** R01HL-16582-05 Artificial lungs (dogs)
P60HL-17269-04 0029 National heart and blood vessel research and demonstration center - Clinical application of circulatory assistance (human)
R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
** R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
** R01HL-21194-02 Development of antithrombogenic plastic biomaterials
** R23HL-21271-02 Extracorporeal circulation and protein denaturation (human)
** R01HL-22315-01 Intraoperative cardiac oxygen supply-demand (dogs, rabbits, rats)
R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)
R01HL-22627-01 An inhibitor of platelet adhesion to artificial organs (human)

CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, COUNTERPULSATION

P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
** P01HL-06312-17 0041 Surgical cardiology - A servomechanism for left ventricular assist (human, dogs, sheep)
** R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
** P01HL-12738-10 0123 Physiologic pharmacology and its clinical applications - Ventricular assistance and preservation (human, dogs)
** P01HL-12738-10 0124 Physiologic pharmacology and its clinical applications - Counterpulsation on myocardial ischemia measured by carbon dioxide tension (dogs)
P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and evaluation of left ventricular bypass pumps (human, cattle)
** R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
** P60HL-17269-04 0029 National heart and blood vessel research and demonstration center - Clinical application of circulatory assistance (human)
** P50HL-17648-04 0011 Study of ischemic heart disease - Surgical treatment for acute myocardial ischemia (human, dogs)
P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)
** P50HL-17669-04 0012 Ischemic heart disease center (SCOR) - Circulatory assistance (human, dog)

CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, DIASTOLIC AUGMENTATION

P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
** R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
P50HL-17651-04 0016 Ischemic heart disease specialized center of research - Retroperfusion of coronary venus circulation with therapeutic agents (dogs)

CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART BYPASS SURGICAL

** P01HL-10436-13 0006 A multidisciplinary study of congenital heart disease - Ventricular blood pumps and valves (human, cattle)
P01HL-11310-12 0095 Mechanisms of cardiovascular disease - Blood and transfusion disorders (human, rats, monkeys)
R01HL-12307-08 Non-surgical treatment of congenital heart disease (human, dogs)
R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
** P01HL-12738-10 0098 Physiologic pharmacology and its clinical applications - Skeletal muscle support of the chronically failing heart (dogs)
R01HL-13426-09 Left ventricular bypass for myocardial infarction (cattle, human)
P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
** R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
** R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
** R01HL-20637-02 Recovery after heart surgery--Bio-behavioral factors (human)

CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART-LUNG BYPASS

R01HL-05875-18 Pathologic metabolic and physiologic studies of heart (human, dogs, cats)
P01HL-06285-18 0143 Cardiovascular-respiratory physiology and biochemistry - Myocardial ischemia (human, dogs, lambs)
P01HL-06312-17 0041 Surgical cardiology - A servomechanism for left ventricular assist (human, dogs, sheep)
P01HL-06312-17 0046 Surgical cardiology - The relationship of prostaglandins to heart disease
** P01HL-06312-17 0047 Surgical cardiology - Myocardial extravascular water (dogs)
R01HL-08696-15 0020 Orthotopic heart transplantation - Complete cardiopulmonary transplantation (dogs)
R01HL-09609-11 Lung volume and breathing mechanics during anesthesia (human)
** P01HL-11310-12 0053 Mechanisms of cardiovascular disease - Ventricular pressure-volume after cardipulmonary bypass (dogs)
P01HL-11310-12 0062 Mechanisms of cardiovascular disease - Myocardial depressant factor in postoperative cardiac dysfunction (human, dogs)
P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
P01HL-11310-12 0064 Mechanisms of cardiovascular disease - Extracardiac anatomical correction of transposition of great arteries (puppies)
P01HL-11310-12 0074 Mechanisms of cardiovascular disease - Electrophysiological studies of paraxysmal atrial tachycardia (human)
P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
** P01HL-12738-10 0122 Physiologic pharmacology and its clinical applications - Coronary perfusion of beating and fibrillating hearts (dogs)
** P01HL-12738-10 0123 Physiologic pharmacology and its clinical applications - Ventricular assistance and preservation (human, dogs)
R01HL-13315-08 Oisposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
P01HL-13330-08 0031 Mechanical circulatory support - Hemodynamics of cardiac prosthesis
P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and evaluation of left ventricular bypass pumps (human, cattle)
** R01HL-15813-05 Cardiac anoxia--Protective effect of carbohydrate (dogs)
** R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
** R01HL-16292-05 0002 Surgery and non-obstructive coronary insufficiency - Effects of hypothermia during cardiopulmonary bypass (dogs)
** R01HL-16292-05 0017 Surgery and non-obstructive coronary insufficiency - Cardiopulmonary resuscitation (human)
** R01HL-16292-05 0018 Surgery and non-obstructive coronary insufficiency - Unavoidable subendocardial perfusion caused by venting and hypothermia (dogs)
** R01HL-16292-05 0019 Surgery and non-obstructive coronary insufficiency - Oistortion of subendocardial vessels in infant hearts (dogs)
** R01HL-16292-05 0021 Surgery and non-obstructive coronary insufficiency - Pulsatile assistance on subendocardial perfusion during bypass (dogs)
P60HL-17269-04 0029 National heart and blood vessel research and demonstration center - Clinical application of circulatory assistance (human)
P50HL-17648-04 0011 Study of ischemic heart disease - Surgical treatment for acute myocardial ischemia (human, dogs)
** P50HL-17665-04 0020 Study of ischemic heart disease - Ischemic injury to myocardium during measured states of ischemia (human)
** P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)
** P50HL-17667-04 0022 Study of ischemic heart disease - Preventing myocardial injury in surgery using cardiopulmonary bypass (human, rat)
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
R01HL-19105-02 Oetection and adherence of fibrin monomer complexes (human)
R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
** R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
R01HL-20143-02 Hypothermic circulatory arrest--Cerebral vascular change (dogs)
** R01HL-20226-02 Cardiac bypass and coronary collateral physiology (dogs)
** R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
R01HL-20803-02 Intra-aortic balloon pumping (dogs, lambs, cats)
** R23HL-21203-02 Effect of vasoactive agents on left-to-right shunts (lambs)
** R01HL-21786-01 Long-term effects of myocardial protection (dogs, rats)
** R01HL-21969-01 Prevention of myocardial hypoxia during by-pass (rats, mice, squirrels)
R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
** R01HL-22244-01 Cardiopulmonary bypass and the vascular endothelium (dogs)
** R01HL-22315-01 Intraoperative cardiac oxygen supply-demand (dogs, rabbits, rats)
R01HL-22329-01 Active prosthetic myocardium--Effects on LV function (dogs)
R01HL-22661-01 Chronic total cardiopulhonary mechanical substitution (sheep)
R01HL-22894-01 Two dimensional ultrasound and cardiac surgery (human, dogs)

CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART MECHANICAL EXTRACORPOREAL

SEE ALSO HEART PROSTHESIS, AUXILIARY
** P01HL-10436-13 0006 A multidisciplinary study of congenital heart disease - Ventricular blood pumps and valves (human, cattle)
** R01HL-13426-09 Left ventricular bypass for myocardial infarction (cattle, human)
** P01HL-13737-07 0006 Assisted circulation - Portable driving unit for permanent assist devices (dogs)
P60HL-17269-04 0030 National heart and blood vessel research and demonstration center - Cardiovascular engineering laboratories (human)
** P60HL-17269-04 0032 National heart and blood vessel research and demonstration center - Clinical circulatory assist device fabrication
R01HL-17437-03 'Perfusion lung'--Role of traumatized leukocytes (dogs, human)
R01HL-17821-03 Cavitation phenomena near prosthetic devices
R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
R23HL-21271-02 Extracorporeal circulation and protein denaturation (human)
** R01HL-22005-01 Intermittent retroperfusion of ischemic myocardium (dogs)
** R01HL-22661-01 Chronic total cardiopulhonary mechanical substitution (sheep)
N01HV-12060-18 Tissue cultured endothelium for vascular prosthetic devices (human, animals)
** N01HV-81388-20 Microfiber substrate for growth of intimal linings in circulatory assist devices

CARDIOVASCULAR SURGERY, EXTRACORPOREAL CIRCULATION

SEE ALSO BLOOD TREATMENT, HEMODIALYSIS
SEE ALSO CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST
SEE ALSO CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, BLOOD OXYGENATORS
SEE ALSO CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART-LUNG BYPASS
SEE ALSO CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART MECHANICAL EXTRACORPOREAL
SEE ALSO KIDNEY PROSTHESIS, ARTIFICIAL KIDNEY
P01HL-06312-17 0036 Surgical cardiology - Experimental studies of cardiac compliance (dogs)
R01HL-11172-12 Physiology and biochemistry of fibrinolytic enzymes (human, animals)
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-13738-08 0003 Cardiac assist devices and artificial hearts - Pathophysiological effects of the artificial heart (calves)
** R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
P50HL-17648-04 0012 Study of ischemic heart disease Retrograde coronary venous perfusion-Acute myocardial ischemia
P01HL-18576-03 0001 Thrombosis research program project - Platelet damage from physical forces and artificial surfaces (human)
** R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
R01HL-19350-02 Prevention of thrombosis by applied electric fields (sheep)
R01HL-19725-03 Complement induced pulmonary injury (dogs, rabbits, sheep)
R01HL-21194-02 Development of antithrombogenic plastic biomaterials
** R23HL-21271-02 Extracorporeal circulation and protein denaturation (human)
R01HL-22329-01 Active prosthetic myocardium--Effects on LV function (dogs)
R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)

CARDIOVASCULAR SURGERY, EXTRACORPOREAL CIRCULATION, CROSS CIRCULATION

SEE ALSO BLOOD TRANSFUSION
R01HL-11901-12 0004 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Cholesterol dynamics studies (rats, rabbits, dogs)
P01HL-17430-05 0001 Control of coagulation - Porcine von Willebrand's disease

CARDIOVASCULAR SURGERY, REVASCULARIZATION SURGICAL

SEE ALSO HEART REVASCULARIZATION
SEE ALSO KIDNEY SURGERY, KIDNEY REVASCULARIZATION
** R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
R01HL-20895-03 0002 Cineangiographic studies of cardiovascular system - Coronary disease--Regional myocardial blood flow (human, dog)
R01HL-20895-03 0003 Cineangiographic studies of cardiovascular system - Densitometry in coronary stenosis (human)
** R01HL-22741-01 Arteriovenous connections in extremity revascularization (dogs)

CARDIOVASCULAR SURGERY, VASCULAR OCCLUSION THERAPEUTIC

R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)
** R01HL-18997-02 Ischemic therapy in experimental hypersplenism (rats, dogs)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-20170-02 Pulmonary infection in splenectomized animals (mice)

CARDIOVASCULAR SYSTEM

SEE ALSO ADRENAL CIRCULATION
SEE ALSO CEREBROVASCULAR SYSTEM
SEE ALSO CEREBROVASCULAR SYSTEM, BRAIN CIRCULATION
SEE ALSO EYE CIRCULATION
SEE ALSO GASTROINTESTINAL CIRCULATION
SEE ALSO HEART
SEE ALSO HEART CIRCULATION
SEE ALSO KIDNEY CIRCULATION
SEE ALSO LIVER CIRCULATION
SEE ALSO PREGNANCY CIRCULATION
SEE ALSO RESPIRATORY CIRCULATION
SEE ALSO SKELETAL SYSTEM CIRCULATION
SEE ALSO SKIN CIRCULATION
** R01HL-05883-18 0005 Reflex control of resistance and capacitance vessels - Differential blockade of medullated and non-medullated vagal afferents in the cat
P01HL-08805-15 0050 Regulation of ventilation and pulmonary circulation - Right ventricular mechanics (dogs)
** P01HL-12373-10 0016 Cardiopulmonary physiology and pathophysiology - Histology-histochemistry-Gough laboratory
** P01HL-12373-10 0018 Cardiopulmonary physiology and pathophysiology - Biochemistry laboratory
** R01HL-12647-08 Inactivation of norepinephrine in vascular tissue
** P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotheropeutic drugs and cardiovascular system (human, rats)
P01HL-13262-07 0023 Arterial wall in atherosclerosis - Isolation and characterization of soluble elastin
P01HL-14388-07 0153 Regulation of the circulation in pathological states - Subcellular distribution of calcium (rats)
P01HL-14388-07 0154 Regulation of the circulation in pathological states - Energetics of smooth muscle contraction (rats)
P01HL-14388-07 0159 Regulation of the circulation in pathological states - Early drug and diet interventions and blood pressure development (rats)
P01HL-14388-07 0160 Regulation of the circulation in pathological states - Mechanism of the antihypertensive effect of training (rats)
P01HL-14388-07 0164 Regulation of the circulation in pathological states - Hyperkinetic heart syndrome (human)
P01HL-14388-07 0165 Regulation of the circulation in pathological states - Vascular resistance in experimental atherosclerosis in Rhesus monkeys
P01HL-14388-07 0166 Regulation of the circulation in pathological states - Elastic changes in abdominal aorta with atherosclerosis (Rhesus monkeys)
P01HL-14388-07 0167 Regulation of the circulation in pathological states - Increased reactivity of artery vascular muscle in spontaneously hypertensive rat
** P01HL-14388-07 0168 Regulation of the circulation in pathological states - Ionic basis of depolarization (rats, tissue culture)
P01HL-14388-07 0172 Regulation of the circulation in pathological states - cAMP-dependent protein kinase from heart and vascular smooth muscle (guinea pigs)
** P01HL-14388-07 0178 Regulation of the circulation in pathological states - Structural and functional consequences of denervation (rats)
** P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
** P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-14388-07 0204 Regulation of the circulation in pathological states - Reflex control of vascular resistance in spontaneously hypertensive rats
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
R01HL-17921-04 Peroxy radicals to prostaglandins in vessels and lung
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
** R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
R01HL-19066-03 Synthesis and evaluation of prostaglandin metabolites (guinea pigs)
** R01HL-19082-01 Hypoxia-induced relaxation of vascular smooth muscle
** R01HL-19653-03 Circulatory system effects of angiotensin analogs (rats)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
P01HL-22602-01 0002 Pathophysiology of the endothelium - Molecular charge and endothelial permeability (rats, mice)
** R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
N01HV-52971-06 Reexamination of Framingham heart study cohort

CARDIOVASCULAR SYSTEM, ANGIOGENESIS

SEE ALSO CARDIOVASCULAR SYSTEM, BLOOD SUPPLY, REVASCULARIZATION NON-SURGICAL
SEE ALSO NEOPLASMS VASCULAR SUPPLY, TUMOR ANGIOGENESIS FACTOR
P01HL-06285-18 0125 Cardiovascular-respiratory physiology and biochemistry - Myocardial function in the fetal and neonatal lamb
P01HL-06285-18 0126 Cardiovascular-respiratory physiology and biochemistry - Ventricular output, foramen ovale and ductus arteriosus flows (lambs)
P01HL-06285-18 0127 Cardiovascular-respiratory physiology and biochemistry - Experimental congenital cardiac lesions in fetal lambs
P01HL-06285-18 0130 Cardiovascular-respiratory physiology and biochemistry - Ductus arteriosus--Morphological development (human, lambs)
P01HL-06285-18 0131 Cardiovascular-respiratory physiology and biochemistry - Fetal heart development and ventricular outflow obstruction (lambs)
P01HL-06285-18 0136 Cardiovascular-respiratory physiology and biochemistry - Fetal microcirculation in utero (rabbits, lambs)
P01HL-06285-18 0179 Cardiovascular-respiratory physiology and biochemistry - Regulation of myocardial cell growth (rats, chick embryo)
R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
** R01HL-11963-10 Biochemistry of blood vessel formation and disease (swine)
** R01HL-17747-04 Endothelial injury and regeneration (rats)
R01HL-19275-03 Characterization of collateral blood vessels (dogs)
R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)
R01HL-20381-03 Long-term study of diabetic vascular disease (human)
R01HL-21994-01 Structure and development of regenerating capillaries (rabbits, chick embryo)

CARDIOVASCULAR SYSTEM, ARTERIES

SEE ALSO CEREBROVASCULAR SYSTEM, CAROTID ARTERIES
SEE ALSO CEREBROVASCULAR SYSTEM, CAROTID SINUS
SEE ALSO CEREBROVASCULAR SYSTEM, CEREBRAL ARTERIES
SEE ALSO EYE CIRCULATION, OPHTHALMIC ARTERY
SEE ALSO EYE CIRCULATION, RETINAL ARTERIES
SEE ALSO HEART VESSELS, CORONARY ARTERIES
SEE ALSO RESPIRATORY CIRCULATION, PULMONARY ARTERY
P01HL-03174-23 0012 Mechanisms of acute vascular reaction to injury - Human atherosclerotic plaque in organ culture
** R01HL-03734-18 Metabolism of arterial tissue in atherosclerosis (rabbits)
P01HL-06285-18 0156 Cardiovascular-respiratory physiology and biochemistry - Myocardial performance following revascularization (human)
P01HL-06835-17 0045 Cardiovascular disease - Pressure volume-renin relationship in human hypertension
** P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
R01HL-09622-14 Pathogenesis of atherosclerosis (rats)
R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
R01HL-10330-11 Physiological mechanics of the heart and arteries (dogs, rabbits, horses)
R01HL-10612-13 0021 Humoral factors in heart failure and hypertension - The control of aldosterone secretion (dogs)
** R01HL-10933-13 Fat metabolism and atherosclerosis (rabbits, cattle, human, rats)
R01HL-11289-12 Analysis of stress in pulsatile dynamics
** P01HL-11310-12 0094 Mechanisms of cardiovascular disease - Physics of pulsatile fluid flow (dogs)
P01HL-11310-12 0106 Mechanisms of cardiovascular disease - Biochemical characterization of the collagens in vascular tissue (catte)
R01HL-12557-09 Effects of steroids and pregnancy on arteries and veins (guinea pigs)
** R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
** P50HL-14138-05 0015 Center for research on atherosclerosis - Arterial wall--Intermediary metabolism, enzyme activity and bioenergetics
** P50HL-14147-08 0012 Specialized center of research in thrombosis - Tissue culture study of arterial cells (human, hamster)
** P50HL-14164-07 0035 A/S SCOR--Comparative and experimental atherosclerosis - Lipid metabolism--Interaction with arterial metabolism (monkey, pigeon)
** P50HL-14164-07 0036 A/S SCOR--Comparative and experimental atherosclerosis - Connective tissue metabolism--Interaction with arterial metabolism (monkeys)
** P50HL-14164-07 0040 A/S SCOR--Comparative and experimental atherosclerosis - Core angiochemistry laboratory
P50HL-14217-08 0061 Specialized center of research in thrombosis - Pharmacology--Comparison of platelets and vascular smooth muscle (animal)
P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
** P01HL-14388-07 0151 Regulation of the circulation in pathological states - Catecholamine release in potassium ion-free contractures in the caudal artery
** P01HL-14388-07 0152 Regulation of the circulation in pathological states - Ion flux alterations in caudal artery in SHR
P01HL-14388-07 0153 Regulation of the circulation in pathological states - Subcellular distribution of calcium (rats)
** P01HL-14388-07 0167 Regulation of the circulation in pathological states - Increased reactivity of artery vascular muscle in spontaneously hypertensive rat
P01HL-14388-07 0196 Regulation of the circulation in pathological states - Altered vascular responsiveness in spontaneous hypertension (rats)
P01HL-14388-07 0222 Regulation of the circulation in pathological states - Renal perfusion pressure in hypertension (rats)
P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
** P50HL-15062-07 0012 Study of lipoproteins, artery wall, and atherosclerosis - Lipoprotein stimulation of arterial smooth muscle cell proliferation (mammals)
** P50HL-15062-07 0019 Study of lipoproteins, artery wall, and atherosclerosis - Factors regulating lipoprotein-smooth muscle cell interaction (monkey)
P50HL-15062-07 0020 Study of lipoproteins, artery wall, and atherosclerosis - Artery wall reactions--Elevated pressure and hyperlipemia (monkey)
R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
R01HL-15646-03 Lipid studies in vascular smooth muscle cells (human, monkeys)
R01HL-15979-05 Elastase, serum inhibitors and the vasculature (human, swine)
P01HL-16387-04 0009 The blood vessel and thrombogenesis - Role of pituitary gland in the pathogenesis of arteriosclerotic lesions (rats)
R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
P60HL-17269-04 0001 National heart and blood vessel research and demonstration center - Atherosclerosis--Arterial pathology and plasma lipids (human)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P60HL-17269-04 0014 National heart and blood vessel research and demonstration center - Physio-chemical nature of lipid deposits in arterial wall (human)
** P60HL-17269-04 0048 National heart and blood vessel research and demonstration center - Atherosclerosis--Lipoproteins and the arterial wall (human)
R01HL-17401-03 Mechanisms in angiotensin induced hypertension (cats, dogs)
R01HL-17517-03 Arterial wall oxygen transport in atherosclerosis (rabbits, dogs)
** R01HL-18156-02 Hemodynamics in curved arteries
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
** R01HL-18199-03 Effects of ions on vascular reactivity
R01HL-18489-03 Hemodynamic interactions of vasoactive chemicals (rats)
R01HL-18516-03 Atherosclerosis and the arterial contractile proteins (pigs, rabbits)
R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)
** P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
P01HL-18575-03 0007 Mechanisms of vascular changes in hypertension - Microscopy of hypertensive arterial lesions (rats)
P01HL-18575-03 0012 Mechanisms of vascular changes in hypertension - Anatomy core facility
R01HL-18764-03 Biosorbable thromboresistant surfaces (dogs, rats, swine, human)
R01HL-18831-03 Microscopy of spontaneously hypertensive arterial lesion (rats)
R01HL-18918-03 Characterization of lung elastins (rat, rabbit, chicken, Rhesus)
** R01HL-19226-03 Vascular smooth muscle in hypertension (rats)
R01HL-19675-02 Coronary pharmacoangiography
R01HL-19791-02 Ultrasonic monitoring visceral blood vessels
R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
R01HL-20439-02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
R01HL-20471-03 Atherosclerosis and diabetes mellitus (human)
** R01HL-20546-02 Chemical analysis of human arterial elastin
** P01HL-20581-01 0004 Vascular neuroeffector mechanisms in health and disease - Neuroeffector characteristics of mesenteric and pulmonary blood vessels (rabbits)
** P01HL-20581-01 0006 Vascular neuroeffector mechanisms in health and disease - Neuroeffector mechanism in arteries and veins in hypertension (human)
** P50HL-21006-02 0004 Specialized center of research in arteriosclerosis - Regulation of growth of human arterial smooth muscle cells by platelets
** R01HL-21103-01 Parametric mechanical studies of hypertensive arteries (dogs, rats)
** R01HL-21270-01 Correlation of arterial hemodynamics and morphology (human)
** R23HL-21279-02 Angiographic estimation of atherosclerotic wall thickness
R01HL-21665-01 Collagen polymorphism and arterial structure (monkeys, guinea pigs)
** R01HL-21859-01 Unsteady flow in arterial bifurcations (human)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
** R01HL-22327-01 Transport of arterial blood gases through skin (swine)
** R01HL-22486-01 Enzyme regulation in cultured arterial cells (swine)
** R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)
** R01HL-23224-01 Hypoxia and pulmonary vascular smooth muscle (rat, cat)
** R01HL-23233-01 Pulmonary artery intermediate filament structure (cattle)
** R01HL-23542-01 Pulmonary vascular smooth muscle cell dynamics (rat, rabbit)

CARDIOVASCULAR SYSTEM, ARTERIES, ABDOMINAL ARTERIES

SEE ALSO CARDIOVASCULAR SYSTEM, ARTERIES, SPLENIC ARTERY
SEE ALSO KIDNEY CIRCULATION, RENAL ARTERY
** P01HL-14388-07 0166 Regulation of the circulation in pathological states - Elastic changes in abdominal aorta with atherosclerosis (Rhesus monkeys)
R01HL-21451-01 Control of circulation during heat stress and fever (baboon)

CARDIOVASCULAR SYSTEM, ARTERIES, AORTA

R01HL-01803-23 0014 Arteriosclerosis, glomerulonephritis, rheumatic fever - Regenerated endothelium on lipid accumulation in arterial wall (rabbit)
R01HL-01803-23 0016 Arteriosclerosis, glomerulonephritis, rheumatic fever - Synthesis of basement membrane collagen by endothelial cells (human)
R01HL-01803-23 0017 Arteriosclerosis, glomerulonephritis, rheumatic fever - Contractile and relaxing proteins of blood vessels and platelets (mammals, human)
P01HL-03174-23 0001 Mechanisms of acute vascular reaction to injury - Response of the vascular intima to injury (human, rats)
** P01HL-03174-23 0013 Mechanisms of acute vascular reaction to injury - Surface morphology of the aorta in normal and injured states (rats, rabbits)
** P01HL-06835-17 0052 Cardiovascular disease - Aortic distensibility (human)
** R01HL-09711-13 Instantaneous blood flow in ascending aorta (human, dogs)
R01HL-10160-13 Origins of atherosclerosis (human)
R01HL-10933-13 Fat metabolism and atherosclerosis (rabbits, cattle, human, rats)
R01HL-11152-12 Vascular physiology (human, cats, dogs)
P01HL-11310-12 0106 Mechanisms of cardiovascular disease - Biochemical characterization of the collagens in vascular tissue (catte)
** R01HL-12083-11 Flow field in aorta and its major branches (dogs, phantom models)
** R01HL-12561-11 Cardiovascular studies on copper deficiency (swine)
P01HL-13262-07 0015 Arterial wall in atherosclerosis - Crosslinkage biosynthesis in aortic elastin and collagen (animals)
** R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
P01HL-13737-07 0013 Assisted circulation - Incorporation of sensors (human, dogs)
P01HL-13737-07 0034 Assisted circulation - Phasic aortic flow and cardiac output from phasic pressures (dogs)
** P01HL-13737-07 0035 Assisted circulation - Mapping the geometry and elasticity of the aorta
P50HL-14141-05 0003 SCOR for atherosclerosis in childhood - Detection of abnormalities in lipid metabolism (human, rabbits, rats)
** P50HL-14164-07 0044 A/S SCOR--Comparative and experimental atherosclerosis - Cell biology-atherosclerosis project (pigeons)
R01HL-14344-07 Platelet function and adenine nucleotide metabolism (human)
** P01HL-14388-07 0166 Regulation of the circulation in pathological states - Elastic changes in abdominal aorta with atherosclerosis (Rhesus monkeys)
P01HL-14388-07 0204 Regulation of the circulation in pathological states - Reflex control of vascular resistance in spontaneously hypertensive rats
** P01HL-14388-07 0217 Regulation of the circulation in pathological states - Fluid mechanics of aortic flow (dogs, human)
R01HL-14645-07 Blood flow measurement by ultrasonic catheter tip methods (human, dogs)
R01HL-14775-08 Mechanisms of drug action in vascular smooth muscle (dog, rabbits)
P50HL-15103-07 0014 A/S SCOR--Early natural history of arteriosclerosis - Biochemistry of atherosclerotic lesions (monkeys, human, cattle)
R01HL-15270-06 Local mechanical properties of the aortic tissue (dogs, pigs)
R01HL-15478-05 Lipid flux and collagen synthesis in atherosclerosis (rabbits)
R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
R01HL-16003-08 Sources and roles of calcium in smooth muscle excitation (rats)
R01HL-16419-03 Arterial uptake of lipoprotein--Kinetic analysis (rabbits)
R01HL-16577-04 Lipoprotein lipase chemistry and function (rats, cattle, human)
R01HL-16588-05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
R01HL-16830-05 Non-invasive determination of aortic blood velocities (human)
P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
R01HL-17371-05 Regualtion of cholesteryl ester levels in the aorta (swine)
R01HL-17597-05 Role of plasma lipoproteins in atherosclerosis (swine, human)
P50HL-17648-04 0013 Study of ischemic heart disease - Fate of bypassed and bypassing vessels (dogs)
R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
R01HL-18004-02 Transport through arterial wall--Biophysical aspects (rabbits)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
R01HL-18516-03 Atherosclerosis and the arterial contractile proteins (pigs, rabbits)
R01HL-18625-03 Organization of arterial ground substance (cattle)
P01HL-18645-03 0004 Biology of the artery wall and atherosclerosis - Human arterial smooth muscle cell and lipoprotein interaction
** R01HL-18736-03 Protein transport through arterial tissue (rabbits)
R01HL-18764-03 Biosorbable thromboresistant surfaces (dogs, rats, swine, human)
R01HL-19830-02 Shear to aortic histamine synthesis and permeability (dogs)
R01HL-19936-02 Unsaturated fatty acid biosynthesis in the aorta (rats)
** R01HL-20037-02 Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle)
R01HL-20114-02 Collagen-platelet interaction and human aorta collagen (human)
R01HL-20460-03 Aortic histamine synthesis in diabetes (rat)
R01HL-20829-02 Fluid mechanics of heart valve prostheses (dogs, human)
P01HL-20993-02 0002 Population dynamics of arterial cells in atherogenesis - Arterial endothelial dynamics in atherogenesis (swine)
R01HL-21094-01 Arterial baroreceptors and renal function (dogs)
** R23HL-21559-01 Oxygen supply and blood flow through aortic vasa vasorum (dogs)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
R01HL-21859-01 Unsteady flow in arterial bifurcations (human)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R01HL-23201-01 Mechanisms of hypertension (human, rats)

CARDIOVASCULAR SYSTEM, ARTERIES, FEMORAL ARTERY

R01HL-18644-03 Prosthesis for aortocoronary bypass (dogs, baboons)
R01HL-19226-03 Vascular smooth muscle in hypertension (rats)
R01HL-20522-03 Peripheral arterial disease in the diabetic (human)
N01HV-42961-06 Evaluation of biomaterials in contact with blood (dogs)
N01HV-72928-04 Develop high resolution ultrasonic imaging techniques
N01HV-72930-02 Atherosclerosis assessment--Angiography and ultrasound (dogs, human)

CARDIOVASCULAR SYSTEM, ARTERIES, ILIAC ARTERY

P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
R01HL-12083-11 Flow field in aorta and its major branches (dogs, phantom models)
R01HL-16003-08 Sources and roles of calcium in smooth muscle excitation (rats)
R01HL-20766-02 Control of circulation in heat stress (baboons)
R01HL-21451-01 Control of circulation during heat stress and fever (baboon)

CARDIOVASCULAR SYSTEM, ARTERIES, MAMMARY ARTERY

** P01HL-06312-17 0015 Surgical cardiology - Internal mammary artery versus saphenous vein for coronary artery bypass (human)

CARDIOVASCULAR SYSTEM, ARTERIES, SPLENIC ARTERY

R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)
R01HL-18199-03 Effects of ions on vascular reactivity
** R01HL-18997-02 Ischemic therapy in experimental hypersplenism (rats, dogs)
R01HL-20086-02 Circulatory control of splenic function (rats)

CARDIOVASCULAR SYSTEM, ARTERIOLES

R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
P01HL-11414-11 0024 Thrombosis and atherosclerosis program - Radiographic demonstration of small coronary arteries (human, dogs)
R01HL-12775-08 Cerebral microcirculation (mice)
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
** R01HL-13936-06 Microvascular responses in hypertension (human, rats)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
R01HL-16603-05 Human and experimental renal diseases (animals)
** R01HL-17335-05 Contractile properties of hypertensive arterioles (rats)
P01HL-17421-05 0002 Regulation and exchange in the microcirculation - Metabolic and myogenic blood flow regulation in microcirculation (animals)
P01HL-17421-05 0004 Regulation and exchange in the microcirculation - Localization of flow regulation in the microcirculation (cats, human)
R01HL-17902-04 Mammalian renal microcirculation (hamsters)
** P01HL-18208-04 0006 Center for the study of blood cell rheology - Analysis of flow in arterioles and capillaries (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-18318-03 0015 Pathogenesis and complications of hypertension Cultured smooth muscle cells and microvessel metabolism (mammals)
P01HL-18575-03 0007 Mechanisms of vascular changes in hypertension - Microscopy of hypertensive arterial lesions (rats)
R01HL-18831-03 Microscopy of spontaneously hypertensive arterial lesion (rats)
R23HL-21332-02 Pulsatile regulation of flow in the microcirculation (cats)
R01HL-21851-01 Cerebral microcirculation in experimental hypertension (cats, rabbits)
R01HL-23224-01 Hypoxia and pulmonary vascular smooth muscle (rat, cat)

CARDIOVASCULAR SYSTEM, ARTERIOVENOUS ANASTOMOSIS NORMAL

P01HL-06312-17 0049 Surgical cardiology - Long-term pulmonary vascular resistance (human)
P01HL-17731-04 0003 Physiological basis of pulmonary disease - Comparative physiology (vertebrates)
R01HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
R01HL-20895-03 0008 Cineangiographic studies of cardiovascular system - Intercoronary anastomotic circulation--Stenosis and occlusion (dogs)
R01HL-22741-01 Arterioveneus connections in extremity revascularization (dogs)

CARDIOVASCULAR SYSTEM, BLOOD SUPPLY

SEE ALSO CARDIOVASCULAR DISORDERS, ISCHEMIA
SEE ALSO CARDIOVASCULAR SYSTEM, CAPILLARY BEDS
P01HL-11678-11 0043 Cardiovascular dynamics and their control - Basic mechanisms of circulatory shock (dog)
R01HL-11876-11 Regional myocardial blood flow and metabolism (degs, swine)
P50HL-14214-07 0029 Newborn lung center for hyaline membrane disease - The diving reflex--Perinatal asphyxia, pulmonary ischemia and HMD (sheep)
R01HL-16292-05 0002 Surgery and non-obstructive coronary insufficiency - Effects of hypothermia during cardiopulmonary bypass (dogs)
** R01HL-16292-05 0009 Surgery and non-obstructive coronary insufficiency - Exercise and supply-demand balance (human)
R01HL-16292-05 0010 Surgery and non-obstructive coronary insufficiency - Effects of exercise on flow distribution (dogs)
** R01HL-16292-05 0017 Surgery and non-obstructive coronary insufficiency - Cardiopulmonary resuscitation (human)
R01HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
** R01HL-19039-03 Circulation studies by one vs two circuit model (degs)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-20080-02 Surgically induced myocardial edema (dogs)
R01HL-20086-02 Circulatory control of splenic function (rats)
** R01HL-20132-03 Histogenesis and biochemistry of embryonic lung (birds)
R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)
R01HL-22759-01 Regional myocardial blood flow during hypothermia (dogs)
R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)

CARDIOVASCULAR SYSTEM, BLOOD SUPPLY, COLLATERAL CIRCULATION

R01HL-09315-15 Coronary insufficiency and myocardial revascularization (human, dogs)
R01HL-13936-06 Microvascular responses in hypertension (human, rats)
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
** P01HL-15194-07 0001 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, venous drainage and collateral flow (human, dogs)
P50HL-17648-04 0006 Study of ischemic heart disease - Ventricular performance and myocardial perfusion in obstructive coronary disease
P50HL-17648-04 0013 Study of ischemic heart disease - Fate of bypassed and bypassing vessels (dogs)
P50HL-17648-04 0021 Study of ischemic heart disease - Biventricular contractile responses to acute myocardial infarction (mammals)
** P50HL-17655-04 0014 Study of ischemic heart disease - Blood flow and gas tension in myocardial ischemia and infarction (dog, monkey)
P50HL-17669-04 0012 Ischemic heart disease center (SCOR) - Circulatory assistance (human, dog)
P50HL-17670-04 0006 Study of ischemic heart disease - Assessment of coronary artery hemodynamics and myocardial blood flow (human)
P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
P50HL-17670-04 0020 Study of ischemic heart disease Radionuclide evaluation of coronary artery disease (human, dog)
P50HL-17682-04 0016 Study of ischemic heart disease Endurance exercise--Prevention and rehabilitation in ischemic heart disease (pig)
** R01HL-17809-04 Effects of exercise on the coronary vasculature (rat, dog)
R01HL-18020-04 Splanchnic hemodynamics in man
R01HL-18060-04 Exercise and coronary atherosclerotic heart disease (monkeys)
R01HL-18468-03 The distribution of flow in the myocardium (dog, pig)
R01HL-18560-03 Cardiovascular adaptation to stress (miniature swine)
** R01HL-19275-03 Characterization of collateral blood vessels (dogs)
R01HL-19937-02 Vasodilators in experimental myocardial infarction (dogs)
R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
** R01HL-20226-02 Cardiac bypass and coronary collateral physiology (degs)
R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
R01HL-20895-03 0002 Cineangiographic studies of cardiovascular system - Coronary disease--Regional myocardial bleed flow (human, dog)
R01HL-20895-03 0004 Cineangiographic studies of cardiovascular system - Cineangiography--Coronary lesions and ventricular function (human)
** R01HL-20895-03 0007 Cineangiographic studies of cardiovascular system - Determinants of collateral formation (degs, hamsters)
R01HL-20895-03 0008 Cineangiographic studies of cardiovascular system - Intercoronary anastomotic circulation--Stenosis and occlusion (degs)
** R01HL-21034-01 Compensatory responses to arterial occlusion (dogs)
R01HL-21657-01 Regional non-ischemic myocardial hypexia (dogs)
R01HL-21872-01 Myecardial perfusion in the hypertrophied heart (degs)
R01HL-22005-01 Intermittent retroperfusion of ischemic myocardium (dogs)
R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (degs, rats)
R01HL-22741-01 Arteriovenous connections in extremity revascularization (dogs)
R01HL-22917-01 Microvascular pressures in the intact beating heart (rabbits)
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)
** R01HL-23171-01 Coronary collateral circulation in myocardial ischemia (dog, pig, rat, human)
R01HL-23970-01 Mechanisms and control of sudden cardiac death (human, dog)

CARDIOVASCULAR SYSTEM, BLOOD SUPPLY, REVASCULARIZATION NON-SURGICAL

SEE ALSO CARDIOVASCULAR SURGERY, REVASCULARIZATION SURGICAL
SEE ALSO HEART REVASCULARIZATION
SEE ALSO KIDNEY SURGERY, KIDNEY REVASCULARIZATION
P50HL-14230-07 0099 A/S SCOR--Lipids, atherosclerosis and thrombosis - Morphological, cytochemical study of normal and altered vasculature (mice)
P60HL-15168-07 0005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)
R01HL-19275-03 Characterization of collateral blood vessels (dogs)
** R01HL-20895-03 0007 Cineangiographic studies of cardiovascular system - Determinants of collateral formation (dogs, hamsters)
R01HL-20895-03 0008 Cineangiographic studies of cardiovascular system - Intercoronary anastomotic circulation--Stenosis and occlusion (dogs)
** R01HL-21994-01 Structure and development of regenerating capillaries (rabbits, chick embryo)

CARDIOVASCULAR SYSTEM, BLOOD VESSELS (GENERAL)

R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
** R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
** R01HL-05883-18 0002 Reflex control of resistance and capacitance vessels - Adenosine, adenine nucleotides and vascular smooth muscle (dog)
** R01HL-05883-18 0003 Reflex control of resistance and capacitance vessels - Cardiac glycosides and sympathetic nerve terminals in vascular smooth muscle
** R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
P01HL-15835-06 0019 Study of muscles related to heart disease Vascular smooth muscle Electron microscopy, excitation contraction (animal)
P01HL-15835-06 0025 Study of muscles related to heart disease Cellular biology of vascular smooth muscle (guinea pig)
R01HL-15852-06 Vascular ion transport and hypertensive mechanisms
** R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (degs, rats)
** R01HL-19252-02 Vascular connective tissue--Role in atherosclerosis (rabbits)
R01HL-20054-02 Cultured blood vessel cells--Pathophysiology (human, animals)
R01HL-20079-02 0003 Thromboresistant material Blood surface interactions (human, cattle)
** R01HL-20339-02 Vascular alpha-adrenergic receptor molecular properties
** P01HL-20581-01 9001 Vascular neuroeffector mechanisms in health and disease - Morphology core
** R01HL-21099-02 Subcellular changes of blood vessels in hypertension (rats)
R01HL-21282-01 Dynamics of interstitial space in whole animals (rats)
R01HL-21303-02 Collagen synthesis by cultured human vascular cells
** R23HL-22075-01 Metabolism of arachidonic acid in blood vessels (chickens, mammals)
** R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)
** R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
** R01HL-23232-01 Effect of hypoxia on PVSM and its precursor cells
** R01HL-23239-01 Functional characteristics of pulmonary vascular smooth muscle (dogs)
** R01HL-23240-01 Pulmonary vascular muscle metabolism and contractility (rats, cattle)
** R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)
** R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)

CARDIOVASCULAR SYSTEM, CAPILLARIES

R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, degs)
** P01HL-06285-18 0152 Cardiovascular-respiratory physiology and biochemistry - Diabetic microangiopathy by organ and tissue culture (human)
P01HL-08805-15 0025 Regulation of ventilation and pulmonary circulation - Pulmonary edema (rabbits)
P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo--Capillary membrane in normal pulmonary hypertensive lung
R01HL-11152-12 Vascular physiology (human, cats, dogs)
P01HL-11414-11 0024 Thrombosis and atherosclerosis program - Radiographic demonstration of small coronary arteries (human, dogs)
** P01HL-11678-11 0035 Cardiovascular dynamics and their control - Lymph flow rate and protein concentration (dogs)
P01HL-11678-11 0036 Cardiovascular dynamics and their control - Pulmonary capillary dynamics and edema (dogs)
** P01HL-11678-11 0039 Cardiovascular dynamics and their control - Capillary and interstitial fluid dynamics of the intestine (cats)
** P01HL-11678-11 0070 Cardiovascular dynamics and their control - Interaction of the four Starling forces (dogs)
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
** R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
** R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)
P50HL-14230-07 0099 A/S SCOR--Lipids, atherosclerosis and thrombosis - Morphological, cytochemical study of normal and altered vasculature (mice)
P01HL-14388-07 0232 Regulation of the circulation in pathological states - Idiopathic cyclic edema
** R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
** R01HL-16666-05 Micropinocytosis in isolated capillary endothelium
R01HL-16828-04 Gradient and transport of oxygen in tissue and organs (mammals)
P01HL-16851-04 0003 Human red cell membrane in health and disease - Modeling membrane mechanics and blood rheology
R01HL-16916-04 0002 The role of albumins in lung water accumulation - Lung water balance--Forces, models and albumin concentrations (rabbits, dogs)
** R01HL-17080-05 Localization of pore systems in capillary walls (rats, mice, rabbits)
** P01HL-17421-05 0003 Regulation and exchange in the microcirculation - Transcapillary fluid exchange in rat intestinal muscle, mucosa, and mesentery
R01HL-17628-03 Pulsatile pressure-flow dynamics (dogs)
P01HL-17731-04 0001 Physiological basis of pulmonary disease - Mechanisms of blood flow and ventilation (dogs)
R01HL-17781-03 Hypertension, kidney disease and renal lymph (dogs, rats)
R01HL-17998-04 Regulatory mechanisms in blood circulation (dogs)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

** R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)
R01HL-18145-03 Oxygen transport mechanisms in hypoxia (dogs, rats, rabbits)
** P01HL-18208-04 0006 Center for the study of blood cell rheology - Analysis of flow in arterioles and capillaries (human)
R01HL-18426-04 Regulation of renal hemodynamics (dogs)
R01HL-18705-03 Regulation of plasma triglyceride metabolism (rats)
R01HL-18762-03 Post-traumatic pulmonary insufficiency (dogs)
R01HL-19053-03 Vascular anatomy of the telencephalon (human)
** R01HL-19139-03 Dispersion of diffusible indicators in the body (human, cats, dogs)
P50HL-19153-02 0004 SCDR–Pulmonary edemas–Eitology, pathogenesis - Physical mechanisms in lung transvascular transport–Math models (sheep)
P50HL-19153-02 0005 SCOR–Pulmonary edemas–Eitology, pathogenesis - Lung vascular permeability measured by indicator dilution methods (sheep)
P50HL-19153-02 0006 SCOR–Pulmonary edemas–Eitology, pathogenesis - Pulmonary vascular abnormalities in human lung diseases
** R01HL-19674-02 Electrolyte permeability of single capillaries (frogs)
R01HL-19824-02 Mass transfer in the microcirculation
R01HL-20143-02 Hypothermic circulatory arrest--Cerebral vascular change (dogs)
R01HL-21096-02 Sickle cell crisis--Role of the erythrocyte membrane (human)
** R01HL-21452-02 Pulmonary capillary filtration in myocardial ishemia (dogs)
** R01HL-21568-02 Cell biology of the alveolar-capillary unit (animals)
** R23HL-21853-01 Lung metabolism and alveolo-capillary permeability (rats)
** R23HL-21943-01 Capillary morphology in pulmonary edema (dogs)
R01HL-21948-01 Capillary, tissue volume and lymph flow in lung edema (sheep, cattle)
** R01HL-21994-01 Structure and development of regenerating capillaries (rabbits, chick embryo)
** R01HL-22088-02 Metabolic basis for diabetic microangiopathy (cattle)
R01HL-22113-02 Micro/macrovasculature in healing of foot lesions (human)
R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
** R01HL-22435-02 Pulmonary alveolar-capillary permeability characteristic (dogs)
R01HL-22463-02 Pinocytotic vesicles and pulmonary edema (rats)
** R01HL-22549-02 Transport across alveolar capillary membrane (dogs)
** R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)

CARDIOVASCULAR SYSTEM, CAPILLARY BEDS

R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
** R01HL-04512-19 Ultrastructural studies of capillary permeability (rats, mice)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
P01HL-08682-15 0038 Regulation of the cardiovascular system - Control of pulmonary circulation (dogs)
P01HL-08899-14 0080 Tolerance to respiratory gases in health and disease - Dynamic quantitation of continuous isobaric gas embolization
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
** R01HL-12607-10 Dynamics of pulsatile blood flow (human, dogs, rats)
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
** P50HL-14187-07 0015 Pulmonary SCOR–Chemical mediators in pulmonary vascular responses - Pathophysiologic responses of pulmonary capillary bed (dog, human)
R01HL-15562-05 Regulation of skeletal muscle blood flow (dogs)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-15722-06 Hemorrheology studies related to in vivo blood flow (human)
** P01HL-15832-06 0011 Chemical-structural predispositions to lung injury - Interaction of cell receptors with vasoactive agents in pulmonary vascular bed
P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
R01HL-17080-05 Localization of pore systems in capillary walls (rats, mice, rabbits)
P60HL-17269-04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology–Ischemia, shock and heart failure (dog, cat, rat)
R01HL-17459-03 Myocardial ischemia (dogs)
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
R01HL-17903-03 Regional circulatory responses to hypoxia (rats, cats, rabbits)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
** P01HL-19737-02 0008 Cellular and molecular aspects of respiratory physiology - Kinetics of movement of acid metabolites from cell to capillary blood (dogs)
P01HL-19737-02 0010 Cellular and molecular aspects of respiratory physiology - Effects of pulsatile flow and volume on capillary exchanges (dogs, rats)
R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
R01HL-20206-02 Carbohydrates-nucleotides and adrenergic interactions (rabbits, cats, rats)
P01HL-20581-01 0004 Vascular neuroeffector mechanisms in health and disease - Neuroeffector characteristics of mesenteric and pulmonary blood vessels (rabbits)
** R01HL-20605-02 Microvascular responses during intestinal absorption (rats)
R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
R01HL-20827-02 Effects of hypertrophy on the coronary circulation (dogs)
R01HL-21034-01 Compensatory responses to arterial occlusion (dogs)
R23HL-21050-02 Mechanisms of re-expansion pulmonary edema (rabbits)
R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))
R01HL-22928-01 Systematic study of bronchial circulation (sheep)
R23HL-22975-01 Oynamics of autoregulation of muscle blood flow (dogs)
R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)

CARDIOVASCULAR SYSTEM, DUCTUS ARTERIOSUS EMBRYONIC

P01HL-06285-18 0126 Cardiovascular-respiratory physiology and biochemistry - Ventricular output, foramen ovale and ductus arteriosus flows (lambs)
P01HL-06285-18 0130 Cardiovascular-respiratory physiology and biochemistry - Ductus arteriosus–Morphological development (human, lambs)
P50HL-14214-07 0026 Newborn lung center for hyaline membrane disease - Hemodynamic studies of HMD--Prostaglandins production and blockers (lambs)
P50HL-17682-04 0021 Study of ischemic heart disease - Prostaglandin biosynthesis in blood vessels from ischemic myocardium (rat, sheep)
** R23HL-21409-02 Perinatal control of the ductus arteriosus (sheep)

CARDIOVASCULAR SYSTEM, ENDOTHELIUM

SEE ALSD HEART, ENDOCARDIUM
R01HL-01803-23 0005 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic and dietary synergy in the pathogenesis of atherosclerosis (rabbits)
R01HL-01803-23 0010 Arteriosclerosis, glomerulonephritis, rheumatic fever - Atherosclerosis induction–Graft rejection and hypercholesterolemia (rabbits)
R01HL-01803-23 0015 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic endothelial injury and lipid diet atherosclerosis (rabbits, monkey)
** R01HL-01803-23 0016 Arteriosclerosis, glomerulonephritis, rheumatic fever - Synthesis of basement membrane collagen by endothelial cells (human)
R01HL-01803-23 0020 Arteriosclerosis, glomerulonephritis, rheumatic fever - Virus-induced arterosclerosis (chickens)
M P01HL-03174-23 Mechanisms of acute vascular reaction to injury
** P01HL-03174-23 0001 Mechanisms of acute vascular reaction to injury - Response of the vascular intima to injury (human, rats)
P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel didease–Cell and matrix response (human, mice)
** P01HL-03174-23 0006 Mechanisms of acute vascular reaction to injury - Atherosclerotic plaque studies using mosaic analysis (human)
P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury - Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)
P01HL-03174-23 0012 Mechanisms of acute vascular reaction to injury - Human atherosclerotic plaque in organ culture
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)
P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
P01HL-06835-17 0027 Cardiovascular disease - Studies in thrombosis-cross-linking of fibrinogen (human)
P01HL-10342-13 0024 The integrated function of respiration and circulation - Cytochrome P450 and physiological response to hypoxia (rats)
R01HL-11152-12 Vascular physiology (human, cats, dogs)
** P01HL-11414-11 0037 Thrombosis and atherosclerosis program - Vascular intimal injury and healing (rabbits, rats)
R01HL-11775-11 Platelet mechanisms in disease (human, primates)
R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
R01HL-12557-09 Effects of steroids and pregnancy on arteries and veins (guinea pigs)
R01HL-12684-09 Angiotensin I and converting enzyme in hypertension (human, primates, dogs)
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
R01HL-12879-09 0005 Pulmonary transport and metabolism in vivo - Glucose transport by pulmonary endothelium and epithelium (dogs)
** R01HL-12879-09 0011 Pulmonary transport and metabolism in vivo - Membrane characteristics of lung cells (human, animals)
** P01HL-13108-09 0013 Clinical heart transplantation - Cardiomyopathic lymphocyte responsiveness to cultured endothelium
P01HL-13262-07 0018 Arterial wall in atherosclerosis - Vasoactive factors of human plasma
P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
R01HL-13901-08 Dntogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)
R01HL-13921-07 The lung as a metabolic organ (animals)
P50HL-14147-08 0012 Specialized center of research in thrombosis - Tissue culture study of arterial cells (human, hamster)
P50HL-14164-07 0044 A/S SCDR–Comparative and experimental atherosclerosis - Cell biology-atherosclerosis project (pigeons)
P50HL-14187-07 0014 Pulmonary SCDR–Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
P50HL-14217-08 0050 Specialized center of research in thrombosis - Electron microscopy section (dogs)
P50HL-14217-08 0051 Specialized center of research in thrombosis - Microcirculation section (bat, hamster)
M P50HL-14230-07 A/S SCDR–Lipids, atherosclerosis and thrombosis
** P50HL-14230-07 0095 A/S SCDR–Lipids, atherosclerosis and thrombosis - Blood platelet adherence to endothelial smooth muscle cells, fibroblast (human)
** P50HL-14230-07 0096 A/S SCOR–Lipids, atherosclerosis and thrombosis - Ultrastructural studies of endothelial cells (human)
P50HL-14230-07 0098 A/S SCDR–Lipids, atherosclerosis and thrombosis - Molecular properties of factor VIII (cattle, human, mice)
** P50HL-14230-07 0099 A/S SCDR–Lipids, atherosclerosis and thrombosis - Morphological, cytochemical study of normal and altered vasculature (mice)
P50HL-14230-07 9002 A/S SCOR–Lipids, atherosclerosis and thrombosis - Core tissue culture laboratory
P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
R01HL-14739-06 The role of leukocytes in thrombotic disease (human, dogs)
** P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
R01HL-14990-07 Lipid transport in avian species (chickens)
R01HL-15270-06 Local mechanical properties of the aortic tissue (dogs, pigs)
R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
R01HL-15646-03 Lipid studies in vascular smooth muscle cells (human, monkeys)
P01HL-15832-06 0011 Chemical-structural predispositions to lung injury - Interaction of cell receptors with vasoactive agents in pulmonary vascular bed
P01HL-15835-06 0019 Study of muscles related to heart disease - Vascular smooth muscle--Electron microscopy, excitation contraction (animal)
** P01HL-15835-06 0025 Study of muscles related to heart disease - Cellular biology of vascular smooth muscle (guinea pig)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

** R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
R01HL-16328-06 Membrane electrical properties of vascular muscle (human, animals)
P01HL-16387-04 0002 The blood vessel and thrombogenesis - Hormonal effects on thrombogenesis (rats, rabbits)
P01HL-16387-04 0009 The blood vessel and thrombogenesis - Role of pituitary gland in the pathogenesis of arteriosclerotic lesions (rats)
P01HL-16411-04 0003 Blood systems in coagulation and vessel disease - Molecular events involving the late stages of coagulation (rabbits)
** R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
R01HL-16626-05 Studies of antibodies to antihemophilic factors (human, rabbits)
** R01HL-16666-05 Micropinocytosis in isolated capillary endothelium
R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
** R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
** R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
** R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
P60HL-17269-04 0048 National heart and blood vessel research and demonstration center - Atherosclerosis--Lipoproteins and the arterial wall (human)
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
** P01HL-17430-05 0008 Control of coagulation - Cultures of von Willebrand endothelial cells (pigs)
R01HL-17503-03 Vascular bubbles in decompression sickness (minipig, dog, goat)
** R01HL-17596-03 Leukocyte-endothelial interactions (rats)
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
P50HL-17646-04 0012 Study of ischemic heart disease - Role of microcirculation in progression of myocardial ischemic injury (rat)
** R01HL-17721-04 Effect of sex hormones on vascular connective tissue (rats)
P01HL-17731-04 0002 Physiological basis of pulmonary disease - Biomechanics of the lung (frogs, cats)
** R01HL-17747-04 Endothelial injury and regeneration (rats)
P01HL-17813-04 0008 Lung disease and the oxygenation of blood and tissue - Pulmonary regulation of systemic blood pressure (human, rabbits, rats)
R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
** R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
R01HL-18085-03 Neural factors in atherogenesis (squirrel monkeys)
R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
** R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
P01HL-18575-03 0006 Mechanisms of vascular changes in hypertension - Evaluation of arterial compliance in hypertension (human, pigs)
** P01HL-18575-03 0012 Mechanisms of vascular changes in hypertension - Anatomy core facility
R01HL-18625-03 Organization of arterial ground substance (cattle)
M P01HL-18645-03 Biology of the artery wall and atherosclerosis
** P01HL-18645-03 0001 Biology of the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
P01HL-18645-03 0003 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
P01HL-18645-03 0004 Biology of the artery wall and atherosclerosis - Human arterial smooth muscle cell and lipoprotein interaction
** P01HL-18645-03 0005 Biology of the artery wall and atherosclerosis - Effects of atherosclerosis risk factors on endothelium of the primate
P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
** R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
** R01HL-18826-04 Interaction of peptides and target cells in lung (human)
M P01HL-18827-02 Platelet vessel wall interactions in thrombogenesis
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
** P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
** P50HL-18828-03 0002 Specialized center of research in thrombosis - Endothelial cell biology (human, guinea pig)
P50HL-18828-03 0004 Specialized center of research in thrombosis - Membrane changes in platelet physiology-Role of complement (mice, human)
** P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
P50HL-18828-03 0008 Specialized center of research in thrombosis - Biochemistry, physiology Platelets and subcellular platelet particles (human)
P50HL-18828-03 0009 Specialized center of research in thrombosis - Platelet formation and megakaryocyte cell biology (guinea pig, human)
** R01HL-18969-02 Arterial wall oxygenation (rabbits, dogs)
R01HL-19001-03 Atherosclerosis in bleeder and drug treated subjects (pigs)
R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
R01HL-19105-02 Detection and adherence of fibrin monomer complexes (human)
R01HL-19229-02 Prostaglandins and hypertension (human, rats, dogs, rabbits)
M P01HL-19242-02 Study of vascular smooth muscle
** P01HL-19242-02 0001 Study of vascular smooth muscle - Energy metabolism and protein turnover in vascular smooth muscle (rats)
** P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
** P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
** P01HL-19242-02 0004 Study of vascular smooth muscle - Cyclic nucleotide metabolism in smooth muscle cultures (human, rats)
** P01HL-19242-02 0006 Study of vascular smooth muscle - The contractile system of vascular smooth muscle (swine, rats)
** P01HL-19242-02 0007 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (animals)
** P01HL-19242-02 0008 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (rats)
** P01HL-19242-02 0009 Study of vascular smooth muscle - Electrophysiology of vascular smooth muscle (rats, chick embryo)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
R01HL-19996-02 Role of membrane proteins in platelet function (human, rabbits)
R01HL-20095-03 Role of lymphokines and monocytes in lung fibrosis (human, guinea pigs, rats)
** R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)
R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
R01HL-20391-03 Polydisperse LDL--Structure, metabolism and function (human)
R01HL-20400-03 Diabetic neuropathy and peripheral vascular diseases (human, hamsters)
R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
R01HL-20564-02 Pathogenesis of peripheral arterial disease (rats, rabbits)
M P01HL-20581-01 Vascular neuroeffector mechanisms in health and disease
** P01HL-20581-01 0001 Vascular neuroeffector mechanisms in health and disease - Vascular neuroeffector mechanism (rabbits)
** P01HL-20581-01 0002 Vascular neuroeffector mechanisms in health and disease - Trophic interaction between adrenergic nerves and vascular smooth muscle
** P01HL-20581-01 0003 Vascular neuroeffector mechanisms in health and disease - Cerebrovascular neuroeffector characteristics (animals)
** P01HL-20581-01 0005 Vascular neuroeffector mechanisms in health and disease - Changes in the neuroeffector mechanism in hypertension (rabbits)
P01HL-20581-01 0006 Vascular neuroeffector mechanisms in health and disease - Neuroeffector mechanism in arteries and veins in hypertension (human)
R01HL-20878-02 Cellular aspects of lung injury (rats, rabbits)
** R01HL-20924-02 Atherosclerosis and arterial cell functions (human, rabbits)
P01HL-20984-02 0004 Cellular mechanisms in cardiac hypertrophy - Myofibril accumulation in cardiac and vascular muscle cells in hypertrophy
M P01HL-20993-02 Population dynamics of arterial cells in atherogenesis
** P01HL-20993-02 0001 Population dynamics of arterial cells in atherogenesis - Arterial SMC population dynamics in atherogenesis (swine)
P01HL-20993-02 0004 Population dynamics of arterial cells in atherogenesis - Modifications of cholesterol balance related to arterial cell divisions (swine)
** R01HL-21032-02 Injury, wall thickness, and arterial wall oxygenation (dogs, rabbits)
R01HL-21103-01 Parametric mechanical studies of hypertensive arteries (dogs, rats)
R01HL-21105-02 Organ specific drugs Cardiovascular and renal effects (dogs)
** R23HL-21189-01 Regulation of pulmonary endothelial cell activities (human, cattle)
R01HL-21270-01 Correlation of arterial hemodynamics and morphology (human)
R01HL-21303-02 Collagen synthesis by cultured human vascular cells
** R23HL-21320-02 Cyclic nucleotide metabolism in vascular endothelium
R01HL-21394-02 Pulmonary angiotensin converting enzyme (rabbits)
R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
R01HL-21568-02 Cell biology of the alveolar-capillary unit (animals)
R23HL-21730-01 vWagII--A new vW0 deficient antigen (human)
R23HL-21894-01 Pulmonary angiotensin converting enzyme (cattle)
R23HL-21901-01 Hypertension, microvascular control and exercise (rats)
** R23HL-21914-01 Studies of vasomotor control (rats)
R01HL-21988-01 Biochemistry of human platelet chemotaxis
R01HL-21994-01 Structure and development of regenerating capillaries (rabbits, chick embryo)
R01HL-22149-01 Morphologic examination of brain parenchymal vessels (cats)
** R01HL-22216-02 Vascular mechanisms in renal hypertension (dogs)
R01HL-22266-01 Production of proteases by lung cells in culture (human, rodents, rabbits, sheep)
** R01HL-22289-01 Endothelial cell mediated fibrinolysis (rabbits)
R01HL-22341-01 Pathogenesis of atherosclerosis in rats
R01HL-22445-01 Platelet inhibitors--Effect on coronary bypass grafts (dogs)
** R01HL-22455-01 Platelet concentration in the marginal layer (dogs, human)
** R01HL-22486-01 Enzyme regulation in cultured arterial cells (swine)
R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
** R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
** P01HL-22602-01 0003 Pathophysiology of the endothelium - Mechanisms of endothelial proliferation (human, animals)
** P01HL-22602-01 0004 Pathophysiology of the endothelium - Endothelium, platelets smooth muscle and atherosclerosis (rabbits)
** P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
R23HL-22621-01 Blood cell-mediated pulmonary (human)
R01HL-22623-01 Polyamines cellular mediators of atherogenesis (human)
R01HL-22738-01 Role of bioelectric potentials in platelet adherence (bats, rats, hamsters)
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
R01HL-22939-01 Human kinin and fibrinolytic systems and renal disease (human)
R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)
** R01HL-22990-01 Angiotensin II receptors--Mechanisms of regulation (rats)
R01HL-23114-01 Control of platelet aggregation in shock (dogs, rabbits)
** N01HV-12054-14 Development of intimal linings (human, cattle)
N01HV-12060-18 Tissue cultured endothelium for vascular prosthetic devices (human, animals)

CARDIOVASCULAR SYSTEM, ENDOTHELIUM PERMEABILITY

SEE ALSO CEREBROVASCULAR SYSTEM, BLOOD-BRAIN BARRIER
SEE ALSO CEREBROVASCULAR SYSTEM, BLOOD-CEREBROSPINAL FLUID BARRIER
SEE ALSO KIDNEY FUNCTION, GLOMERULAR FILTRATION
SEE ALSO KIDNEY FUNCTION, RENAL TUBULAR TRANSPORT
SEE ALSO PREGNANCY CIRCULATION, PLACENTAL TRANSFER
SEE ALSO RESPIRATORY-FUNCTION, PULMONARY DIFFUSION
R01HL-01803-23 0011 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
** R01HL-01803-23 0014 Arteriosclerosis, glomerulonephritis, rheumatic fever - Regenerated endothelium on lipid accumulation in arterial wall (rabbit)
** R01HL-01803-23 0017 Arteriosclerosis, glomerulonephritis, rheumatic fever - Contractile and relaxing proteins of blood vessels and platelets (mammals, human)
R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
P01HL-03174-23 0013 Mechanisms of acute vascular reaction to injury - Surface morphology of the aorta in normal and injured states (rats, rabbits)

(contd)

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** R01HL-04512-19 Ultrastructural studies of capillary permeability (rats, mice)
** P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)
P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
** P01HL-08805-15 0025 Regulation of ventilation and pulmonary circulation - Pulmonary edema (rabbits)
P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo-Capillary membrane in normal pulmonary hypertensive lung
R01HL-08977-14 Quantitation of flow and solute flux in microvessels (cats, rats)
R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
** R01HL-09622-14 Pathogenesis of atherosclerosis (rats)
R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
R01HL-11289-12 Analysis of stress in pulsatile dynamics
P01HL-11678-11 0035 Cardiovascular dynamics and their control - Lymph flow rate and protein concentration (dogs)
P01HL-11678-11 0036 Cardiovascular dynamics and their control - Pulmonary capillary dynamics and edema (dogs)
P01HL-11678-11 0039 Cardiovascular dynamics and their control - Capillary and interstitial fluid dynamics of the intestine (cats)
R01HL-11897-11 Pathogenesis of experimental atherosclerosis (rabbits, guinea pigs)
R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
M R01HL-12879-09 Pulmonary transport and metabolism in vivo
** R01HL-12879-09 0005 Pulmonary transport and metabolism in vivo - Glucose transport by pulmonary endothelium and epithelium (dogs)
** R01HL-12879-09 0007 Pulmonary transport and metabolism in vivo - Effects of temperature changes on pulmonary transport
** R01HL-12879-09 0008 Pulmonary transport and metabolism in vivo - Stop-flow technique for permeability measurements
** R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)
R01HL-13323-08 Intrarenal pressure and renal function (human, dogs)
R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
** P50HL-14164-07 0031 A/S SCOR--Comparative and experimental atherosclerosis - Changes in endothelial permeability associated with atherosclerosis (pigeon)
** P50HL-14214-07 0025 Newborn lung center for hyaline membrane disease - Pulmonary vascular permeability and lung water--Hyaline membrane disease (sheep)
** P50HL-14217-08 0050 Specialized center of research in thrombosis - Electron microscopy section (dogs)
P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in RDS (sheep, cat)
** P50HL-14230-07 0094 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of atherosclerosis and regression (monkeys)
P01HL-14388-07 0232 Regulation of the circulation in pathological states - Idiopathic cyclic edema
** R01HL-14775-08 Mechanisms of drug action in vascular smooth muscle (dog, rabbits)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
R01HL-15852-06 Vascular ion transport and hypertensive mechanisms
R01HL-16094-06 The dynamics of microcirculatory function (dogs)
** P01HL-16387-04 0003 The blood vessel and thrombogenesis - Blood vessel healing (rabbits)
** R01HL-16419-03 Arterial uptake of lipoprotein--Kinetic analysis (rabbits)
R01HL-16588-05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
R01HL-16643-02 Fluorocarbon emulsions as artificial blood (animals)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
P01HL-16910-05 0001 Regulation of the peripheral circulation - Quantitative studies of microcirculatory control (bats)
M R01HL-16916-04 The role of albumins in lung water accumulation
** R01HL-16916-04 0001 The role of albumins in lung water accumulation - Capillary permeability (dogs, human)
R01HL-16916-04 0002 The role of albumins in lung water accumulation - Lung water balance--Forces, models and albumin concentrations (rabbits, dogs)
** R01HL-17080-05 Localization of pore systems in capillary walls (rats, mice, rabbits)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
M P01HL-17421-05 Regulation and exchange in the microcirculation
P01HL-17421-05 0001 Regulation and exchange in the microcirculation - Mass transfer and microcirculatory function (rats)
** P01HL-17421-05 0003 Regulation and exchange in the microcirculation - Transcapillary fluid exchange in rat intestinal muscle, mucosa, and mesentery
R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
** P50HL-17646-04 0012 Study of ischemic heart disease - Role of microcirculation in progression of myocardial ischemic injury (rat)
** P50HL-17646-04 0013 Study of ischemic heart disease - Maintenance of myocardial vascular integrity after revascularization (dogs)
P50HL-17669-04 0022 Ischemic heart disease center (SCOR) - Pathological studies of human and experimental ischemic heart disease
R01HL-17747-04 Endothelial injury and regeneration (rats)
R01HL-17781-03 Hypertension, kidney disease and renal lymph (dogs, rats)
P01HL-17812-04 0007 Thrombosis and plasma proteins - Blood components--Response to endotoxin (dogs, baboons)
R01HL-17964-04 The alternate pathway for fibrinolysis (human)
R01HL-17998-04 Regulatory mechanisms in blood circulation (dogs)
** R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)
P50HL-18318-03 0014 Pathogenesis and complications of hypertension - Arterial metabolism and atherogenesis (rat, rabbit)
** P01HL-18575-03 0007 Mechanisms of vascular changes in hypertension - Microscopy of hypertensive arterial lesions (rats)
R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
R01HL-18629-04 Influence of aging and hypertension on the myocardium (rats)
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
** R01HL-18762-03 Post-traumatic pulmonary insufficiency (dogs)
P01HL-18827-02 0002 Platelet vessel wall interactions in thrombogenesis - Interactions of vessel wall macromolecules with factor XII (human, rats)
P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
R01HL-18831-03 Microscopy of spontaneously hypertensive arterial lesion (rats)
R01HL-18866-02 Microvascular flow, volume, and reactivity (rats, cats)
R01HL-18952-03 Metabolism in perfused fetal and newborn rabbit lungs
R01HL-19048-03 Structure of baroreceptors in hypertension (rats)
** R01HL-19139-03 Dispersion of diffusible indicators in the body (human, cats, dogs)
M P50HL-19153-02 SCOR--Pulmonary edemas--Etiology, pathogenesis
** P50HL-19153-02 0001 SCOR--Pulmonary edemas--Etiology, pathogenesis - Prostaglandins and the lung circulation (sheep)
** P50HL-19153-02 0002 SCOR--Pulmonary edemas--Etiology, pathogenesis - Lung fluid dynamics--Classical mediators and their inhibitors (sheep)
** P50HL-19153-02 0003 SCOR--Pulmonary edemas--Etiology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
** P50HL-19153-02 0004 SCOR--Pulmonary edemas--Etiology, pathogenesis - Physical mechanisms in lung transvascular transport--Math models (sheep)
** P50HL-19153-02 0005 SCOR--Pulmonary edemas--Etiology, pathogenesis - Lung vascular permeability measured by indicator dilution methods (sheep)
** P50HL-19153-02 0006 SCOR--Pulmonary edemas--Etiology, pathogenesis - Pulmonary vascular abnormalities in human lung diseases
** P50HL-19155-02 0002 Pathophysiology of pulmonary edema - Non-invasive measurement of protein turnover in human lung (also sheep)
** P50HL-19155-02 0005 Pathophysiology of pulmonary edema - Protein exchange sites and lymph protein concentration in lung (mice, sheep)
** P50HL-19185-02 0004 Pulmonary SCOR--Neonatal respiratory distress syndromes - Fluid and protein transport in fetal and newborn lung (sheep, rabbits)
** R01HL-19370-03 Coronary capillary exchange--The effects of ischemia (dogs, sheep)
** R01HL-19454-02 Rheological factors in transport across arterial wall (dogs)
** R01HL-19455-03 Role of endothelial cells in vascular permeability (tissue culture)
** R01HL-19674-02 Electrolyte permeability of single capillaries (frogs)
P01HL-19717-02 0007 Response of the lung to injury - Cellular level studies of prostaglandin-like molecules (cattle)
** R01HL-19830-02 Shear to aortic histamine synthesis and permeability (dogs)
** R01HL-20054-02 Cultured blood vessel cells--Pathophysiology (human, animals)
R01HL-20143-02 Hypothermic circulatory arrest--Cerebral vascular change (dogs)
R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)
R01HL-20460-03 Aortic histamine synthesis in diabetes (rat)
R01HL-20563-02 Restoring microcirculation after platelet aggregation
R01HL-20878-02 Cellular aspects of lung injury (rats, rabbits)
** P01HL-20993-02 0002 Population dynamics of arterial cells in atherogenesis - Arterial endothelial dynamics in atherogenesis (swine)
** R01HL-21188-02 Pulsatory water flux and endothelial cell desquamation
** R01HL-21376-02 Blood-gas barrier solute and water transport (rabbits)
R01HL-21416-02 Atherosclerosis in new modles of diabetes mellitus
** R01HL-21429-02 Transport of LDL in arterial wall (human, mammals)
** R01HL-21438-02 Structure and permeability of arterial endothelium (pigs)
R01HL-21452-02 Pulmonary capillary filtration in myocardial ishemia (dogs)
R01HL-21498-02 Pathophysiology of edema (rats, cats)
** R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
R01HL-21592-01 Lipoproteins and coagulation factors in atherosclerosis (pigeons)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
R01HL-21851-01 Cerebral microcirculation in experimental hypertension (cats, rabbits)
** R23HL-21853-01 Lung metabolism and alveolo-capillary permeability (rats)
** R23HL-21950-01 Endothelial cell mechanisms in vascular disease (human)
R01HL-21994-01 Structure and development of regenerating capillaries (rabbits, chick embryo)
R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
** R01HL-22244-01 Cardiopulmonary bypass and the vascular endothelium (dogs)
R01HL-22327-01 Transport of arterial blood gases through skin (swine)
** R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)
** R01HL-22435-02 Pulmonary alveolar-capillary permeability characteristic (dogs)
** R01HL-22520-01 Pulmonary vascular response to group B Streptococci (human, mammals)
R01HL-22549-02 Transport across alveolar capillary membrane (dogs)
M P01HL-22602-01 Pathophysiology of the endothelium
** P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
** P01HL-22602-01 0002 Pathophysiology of the endothelium - Molecular charge and endothelial permeability (rats, mice)
P01HL-22602-01 9002 Pathophysiology of the endothelium - Core--Culture of blood vessel--Derived cells
** R01HL-22783-01 Hemodynamic induction of intimal fibromuscular lesion
R01HL-22911-01 Mechanism of clearance of lung edema fluid (dogs)
** R23HL-22933-01 Transvascular fluid and protein exchange in the lung (sheep)
R01HL-23015-01 Mechanisms of hypo-oncotic pulmonary edema (human, dogs)
R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)
R01HL-23600-01 Ions, water, and hypertension (human, dogs, rats)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)
R01HL-23604-01 Hepatic microvascular regulatory mechanisms (rat)
R01HL-23653-01 Protection of the ischemic myocardium (dogs)

CARDIOVASCULAR SYSTEM, MICROCIRCULATION

SEE ALSO CARDIOVASCULAR SYSTEM, ARTERIOLES
SEE ALSO CARDIOVASCULAR SYSTEM, CAPILLARIES
SEE ALSO CARDIOVASCULAR SYSTEM, VASA VASORUM

(contd)

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R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
R01HL-04512-19 Ultrastructural studies of capillary permeability (rats, mice)
P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
P01HL-06285-18 0128 Cardiovascular-respiratory physiology and biochemistry - Pulmonary circulation in fetal lambs in utero
** P01HL-06285-18 0129 Cardiovascular-respiratory physiology and biochemistry - Pulmonary microcirculation in the fetus and neonate (lambs)
P01HL-06285-18 0133 Cardiovascular-respiratory physiology and biochemistry - Decreased uterine blood flow and fetal development (lambs)
** P01HL-06285-18 0136 Cardiovascular-respiratory physiology and biochemistry - Fetal microcirculation in utero (rabbits, lambs)
** P01HL-06285-18 0145 Cardiovascular-respiratory physiology and biochemistry - Pulmonary, pleural and systemic microcirculation (animals)
** P01HL-06285-18 0147 Cardiovascular-respiratory physiology and biochemistry - Metabolic regulation of cerebral microcirculation (cats)
P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
** P01HL-06350-17 0019 Hemostasis research program project - Microcirculation (human, rats, rabbits)
** P01HL-06370-17 0015 Cardiopulmonary and renal pathology research center - Pathogenesis of chemically induced tissue injury (rats)
** R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
R01HL-07723-15 Reflex control of vascular capacitance in shock
M P01HL-08682-15 Regulation of the cardiovascular system
P01HL-08682-15 0011 Regulation of the cardiovascular system - Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels)
P01HL-08805-15 0006 Regulation of ventilation and pulmonary circulation - Adaptation of lungfish--Estivation
** P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo--Capillary membrane in normal pulmonary hypertensive lung
P01HL-08899-14 0076 Tolerance to respiratory gases in health and disease - Bubble formation during gas counterdiffusion (hamsters)
** R01HL-08977-14 Quantitation of flow and solute flux in microvessels (cats, rats)
R01HL-10330-11 Physiological mechanics of the heart and arteries (dogs, rabbits, horses)
** R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
** R01HL-11152-12 Vascular physiology (human, cats, dogs)
** R01HL-11153-12 Quantitation of flow and solute flux in microvessels (cats, rats)
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
** R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
** R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
R01HL-12607-10 Dynamics of pulsatile blood flow (human, dogs, rats)
** R01HL-12614-09 Microcirculatory control mechanisms and hypertension (bats, rats)
** R01HL-12775-08 Cerebral microcirculation (mice)
** R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
P01HL-13108-09 0003 Clinical heart transplantation - Endomyocardial biopsy pathology
** R01HL-13437-09 Physical and mechanical parameters in the microcirculation (animals)
R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)
R01HL-13632-08 Vascular changes in diabetes mellitus (human)
** R01HL-13936-06 Microvascular responses in hypertension (human, rats)
P50HL-14136-07 0004 Pulmonary SCOR--Airways obstructive diseases - Morphometric studies of developing emphysema (human)
** P50HL-14217-08 0051 Specialized center of research in thrombosis - Microcirculation section (bat, hamster)
** P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
** R01HL-15390-12 Regulation of blood flow in the microcirculation
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
** R01HL-15722-06 Hemorrheology studies related to in vivo blood flow (human)
** R01HL-16094-06 The dynamics of microcirculatory function (dogs)
** R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
** R01HL-16643-02 Fluorocarbon emulsions as artificial blood (animals)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
** P01HL-16851-04 0009 Human red cell membrane in health and disease Blood cell properties in circulatory regulation (dogs, rabbits)
** P01HL-16910-05 0001 Regulation of the peripheral circulation - Quantitative studies of microcirculatory control (bats)
** R01HL-17091-05 Anesthetics and microvascular response to hemorrhage (rats)
M P01HL-17421-05 Regulation and exchange in the microcirculation
** P01HL-17421-05 0001 Regulation and exchange in the microcirculation - Mass transfer and microcirculatory function (rats)
** P01HL-17421-05 0002 Regulation and exchange in the microcirculation - Metabolic and myogenic blood flow regulation in microcirculation (animals)
** P01HL-17421-05 0003 Regulation and exchange in the microcirculation - Transcapillary fluid exchange in rat intestinal muscle, mucosa, and mesentery
** P01HL-17421-05 0004 Regulation and exchange in the microcirculation - Localization of flow regulation in the microcirculation (cats, human)
** P01HL-17421-05 0006 Regulation and exchange in the microcirculation - Core facilities--Optical instrumentation facility
** P01HL-17421-05 0007 Regulation and exchange in the microcirculation - Core facilities-Fluorometric measurement methods for microcirculation
R01HL-17596-03 Leukocyte-endothelial interactions (rats)
** P50HL-17646-04 0012 Study of ischemic heart disease - Role of microcirculation in progression of myocardial ischemic injury (rat)
P50HL-17646-04 0013 Study of ischemic heart disease - Maintenance of myocardial vascular integrity after revascularization (dogs)
** P01HL-17731-04 0001 Physiological basis of pulmonary disease - Mechanisms of blood flow and ventilation (dogs)
P01HL-17731-04 0002 Physiological basis of pulmonary disease - Biomechanics of the lung (frogs, cats)
R01HL-17781-03 Hypertension, kidney disease and renal lymph (dogs, rats)
P01HL-17871-04 0010 Kidney, sodium, cardiac output, arterioles and hypertension - Renal prostaglandins metabolism in hypertension (rats, dogs)
** R01HL-17902-04 Mammalian renal microcirculation (hamsters)
** R01HL-17998-04 Regulatory mechanisms in blood circulation (dogs)
** R01HL-18002-03 Circulatory shock, trauma and RE-system function (rats)
R01HL-18012-04 Cellular defects in nocturnal hemoglobinuria (human)
R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
R01HL-18060-04 Exercise and coronary atherosclerotic heart disease (monkeys)
** R01HL-18080-03 Extrinsic control of intestinal microcirculation (dogs)
M P01HL-18208-04 Center for the study of blood cell rheology
** P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
** P01HL-18208-04 0003 Center for the study of blood cell rheology - Bone marrow microcirculation (rats, mice)
** P01HL-18208-04 0004 Center for the study of blood cell rheology - Splenic microcirculation (rats, mice)
** P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
** P01HL-18208-04 0006 Center for the study of blood cell rheology - Analysis of flow in arterioles and capillaries (human)
** R01HL-18292-04 Vasodilation and microvascular oxygen delivery (dog, hamster)
P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
** P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
P01HL-18575-03 0007 Mechanisms of vascular changes in hypertension - Microscopy of hypertensive arterial lesions (rats)
R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
R01HL-18629-04 Influence of aging and hypertension on the myocardium (rats)
R01HL-18630-03 Pulmonary hemodynamics in atelectasis and hypoxia (dogs)
R01HL-18731-02 RES stimulating materials in experimental shock (dogs)
** R01HL-18866-02 Microvascular flow, volume, and reactivity (rats, cats)
** R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)
R01HL-18948-03 Pulsatass flow and circulatory assistance (dogs, calves)
P50HL-19155-02 0004 Pathophysiology of pulmonary edema Physical and chemical effects of multiple pulmonary emboli (sheep)
P50HL-19155-02 0005 Pathophysiology of pulmonary edema - Protein exchange sites and lymph protein concentration in lung (mice, sheep)
P50HL-19185-02 0004 Pulmonary SCOR-Neonatal respiratory distress syndromes Fluid and protein transport in fetal and newborn lung (sheep, rabbits)
P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport
P01HL-19737-02 0010 Cellular and molecular aspects of respiratory physiology Effects of pulsatile flow and volume on capillary exchanges (dogs, rats)
** R01HL-19824-02 Mass transfer in the microcirculation
** R01HL-20143-02 Hypothermic circulatory arrest-Cerebral vascular change (dogs)
R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)
R01HL-20539-03 Blood glucose, hemoglobin A1c, and diabetic vascular disease (human)
** R01HL-20563-02 Restoring microcirculation after platelet aggregation
** R01HL-20605-02 Microvascular responses during intestinal absorption (rats)
R13HL-20765-01 Eleventh Princeton Conference on Cerebrovascular Disease (new Jersey)
R01HL-20869-01 Microvascular responses to ultrasound
R01HL-20895-03 0008 Cineangiographic studies of cardiovascular system - Intercoronary anastomotic circulation--Stenosis and occlusion (dogs)
R01HL-20895-03 0009 Cineangiographic studies of cardiovascular system - Aortic changes in atheromatosis (rabbits)
** P01HL-21016-02 0013 Sickle cell anemia and other hemoglobinopathies - Microcirculatory response to sickle cell treated with anti-sickling agents (rats)
R01HL-21076-02 Lung fluid, protein exchange after hemorrhagic shock (sheep)
** R23HL-21332-02 Pulsatile regulation of flow in the microcirculation (cats)
R01HL-21498-02 Pathophysiology of edema (rats, cats)
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
** R01HL-21843-01 Ischemia, diabetes and the microcirculation (rats, cats, hamsters)
** R01HL-21851-01 Cerebral microcirculation in experimental hypertension (cats, rabbits)
** R23HL-21901-01 Hypertension, microvascular control and exercise (rats)
R01HL-21994-01 Structure and development of regenerating capillaries (rabbits, chick embryo)
R01HL-22113-02 Micro/macrovasculature in healing of foot lesions (human)
** R01HL-22118-02 Microcirculation in patients with diabetes mellitus
R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
** R01HL-22738-01 Role of bioelectric potentials in platelet adherence (bats, rats, hamsters)
** R01HL-22741-01 Arteriovenous connections in extremity revascularization (dogs)
** R01HL-22917-01 Microvascular pressures in the intact beating heart (rabbits)
** R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)
** R01HL-23015-01 Mechanisms of hypo-oncotic pulmonary edema (human, dogs)
** R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)
** R01HL-23604-01 Hepatic microvascular regulatory mechanisms (rat)

CARDIOVASCULAR SYSTEM, PERIPHERAL VASCULAR SYSTEM

R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
P01HL-06835-17 0059 Cardiovascular disease - Metyrapone-induced hypertension in dog
P01HL-07293-17 0054 Non-invasive cardiovascular measurements - Detection of arterial occlusive disease (human)
** P01HL-07293-17 0056 Non-invasive cardiovascular measurements - Peripheral vascular system software
R01HL-07723-15 Reflex control of vascular capacitance in shock
P01HL-08682-15 0026 Regulation of the cardiovascular system - Hypertension--High renin vs low renin (dog)
P01HL-10436-13 0015 A multidisciplinary study of congenital heart disease - Fetal and neonatal cardiovascular physiology (sheep)
R01HL-10942-09 Study of genetic hypertension in rats

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-11310-12 0067 Mechanisms of cardiovascular disease - Cardiac performance with measured homodynamic variables (human)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
** R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
P01HL-13108-09 0022 Clinical heart transplantation - Studies on cardiac receptors (human)
P01HL-13737-07 0009 Assisted circulation - Analytical models
** P50HL-14164-07 0038 A/S SCOR--Comparative and experimental atherosclerosis - Peripheral vascular studies--Cholesterol, lesion regression, vascular function
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-14388-07 0211 Regulation of the circulation in pathological states - Choline acetyltransferase activity (rats)
** P01HL-14388-07 0213 Regulation of the circulation in pathological states - Regulation of the heart and peripheral circulation in heart failure
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
R01HL-14529-07 Systems analysis of baroreflex (dogs)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-15694-06 Pulmonary factors in circulatory regulation
M P01HL-16910-05 Regulation of the peripheral circulation
** P01HL-16910-05 0001 Regulation of the peripheral circulation - Quantitative studies of microcirculatory control (bats)
P01HL-16910-05 0002 Regulation of the peripheral circulation - Coronary circulation (dogs)
** P01HL-16910-05 0005 Regulation of the peripheral circulation - Control of circulation by baroreceptor and chemoreceptor reflexes (dog, monkey)
** P01HL-16910-05 0006 Regulation of the peripheral circulation - Regulation of blood flow distribution (baboons, dogs)
** P01HL-16910-05 0008 Regulation of the peripheral circulation - Circulation to bone (dogs, baboons)
R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
** P50HL-17651-04 0015 Ischemic heart disease specialized center of research - Peripheral circulation in acute myocardial ischemia and infarction (human)
** P50HL-17651-04 0044 Ischemic heart disease specialized center of research - Limb blood flow after myocardial revascularization (human)
** P50HL-17651-04 0045 Ischemic heart disease specialized center of research - Peripheral vascular studies--Pharmacology (dogs, human)
P50HL-17655-04 0003 Study of ischemic heart disease - Cardiopulmonary resuscitation (human, dog)
P50HL-17665-04 0012 Study of ischemic heart disease - Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog
P50HL-17669-04 0013 Ischemic heart disease center (SCOR) - Exercise in patients with ischemic heart disease
** R01HL-17853-03 Peripheral circulation in heart failure (animals)
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
R01HL-17903-03 Regional circulatory responses to hypoxia (rats, cats, rabbits)
R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R01HL-18060-04 Exercise and coronary atherosclerotic heart disease (monkeys)
R01HL-18489-03 Hemodynamic interactions of vasoactive chemicals (rats)
M P01HL-18575-03 Mechanisms of vascular changes in hypertension
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
P01HL-18575-03 0006 Mechanisms of vascular changes in hypertension - Evaluation of arterial compliance in hypertension (human, pigs)
R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
R01HL-18866-02 Microvascular flow, volume, and reactivity (rats, cats)
** R01HL-18868-03 Oevelopment of vertebrate vascular control systems (reptiles, amphibians)
P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)
P01HL-18974-03 0006 Experimental neurogenic hypertension program - Model of sustained arterial hypertension (cats)
R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
R01HL-18997-02 Ischemic therapy in experimental hypersplenism (rats, dogs)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
P01HL-19242-02 0006 Study of vascular smooth muscle - The contractile system of vascular smooth muscle (swine, rats)
R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
R01HL-20381-03 Long-term study of diabetic vascular disease (human)
R01HL-20428-03 The juvenile diabetic heart (human)
R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
R01HL-20663-02 Regulation of skin blood flow in man
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
R01HL-20685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)
R01HL-20803-02 Intra-aortic balloon pumping (dogs, lambs, cats)
R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)
R01HL-21523-01 Hemodynamic effects of dietary sodium in man
R01HL-21578-01 Effect of exercise upon the hypertensive adolescent
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
R01HL-21893-01 Blood volume distribution in hypertension (human)
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)

CARDIOVASCULAR SYSTEM, VASA VASORUM

P50HL-14230-07 0094 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of atherosclerosis and regression (monkeys)
R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
R01HL-21032-02 Injury, wall thickness, and arterial wall oxygenation (dogs, rabbits)
** R23HL-21559-01 Oxygen supply and blood flow through aortic vasa vasorum (dogs)

CARDIOVASCULAR SYSTEM, VEINS

SEE ALSO CAROIOVASCULAR SYSTEM, ARTERIOVENOUS ANASTOMOSIS NORMAL
SEE ALSO CEREBROVASCULAR SYSTEM, VENOUS SINUSES INTRACRANIAL
SEE ALSO HEART VESSELS, CORONARY VEINS
SEE ALSO RESPIRATORY CIRCULATION, PULMONARY VEINS
P01HL-06312-17 0015 Surgical cardiology - Internal mammary artery versus saphenous vein for coronary artery bypass (human)
** P01HL-06664-17 0042 Cardiopulmonary function in remediable vascular disease - Physiologic studies on vein grafts (dogs)
R01HL-07723-15 Reflex control of vascular capacitance in shock
R01HL-12557-09 Effects of steroids and pregnancy on arteries and veins (guinea pigs)
** P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
** R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
R01HL-19053-03 Vascular anatomy of the telencephalon (human)
** R01HL-19677-03 Venous structure and function (dogs)
** P01HL-20581-01 0006 Vascular neuroeffector mechanisms in health and disease - Neuroeffector mechanism in arteries and veins in hypertension (human)
** R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)

CARDIOVASCULAR SYSTEM, VEINS, VENA CAVAE

R01HL-18764-03 Biosorbable thromboresistant surfaces (dogs, rats, swine, human)
R01HL-20554-02 Memory-alloy-filters for venous emboli (dogs)
** N01HV-62911-04 Vena cava ring tests of biomaterials in dogs

CARDIOVASCULAR TISSUE PRESERVATION

SEE ALSO HEART PRESERVATION
** P01HL-06312-17 0032 Surgical cardiology - Preservation of the heart by perfusion (dogs)
P01HL-06312-17 0033 Surgical cardiology - Studies in cryopreservations (rats)
** P01HL-18646-03 0010 Studies basic to heart transplantation - Oevelopment and study of a heart preservation chamber (dogs, sheep)
R01HL-22110-02 Healing complications in vascular grafting (dogs)
N01HV-42960-07 Oevelopment and evaluation of cardiac prostheses (calves)

CARDIOVASCULAR TRANSPLANTATION, BLOOD VESSELS TRANSPLANTATION

SEE ALSO HEART REVASCULARIZATION, CORONARY BYPASS
R01HL-01803-23 0010 Arteriosclerosis, glomerulonephritis, rheumatic fever - Atherosclerosis induction--Graft rejection and hypercholesterolemia (rabbits)
P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
** P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
** R01HL-14126-17 Effect of function on grafts and implants of collagen (dogs, monkeys)
** R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
** R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
P01HL-16387-04 0003 The blood vessel and thrombogenesis - Blood vessel healing (rabbits)
** P01HL-16387-04 0006 The blood vessel and thrombogenesis - Mechanism of delayed vessel graft failure (dogs, rabbits)
** R01HL-17369-04 Arterial bypass surgery--Structure and metabolism (monkeys)
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
R01HL-18936-02 Heart preservation and transplantation studies (rat)
P01HL-20581-01 0002 Vascular neuroeffector mechanisms in health and disease - Trophic interaction between adrenergic nerves and vascular smooth muscle

CARDIOVASCULAR VISUALIZATION*

SEE ALSO CEREBROVASCULAR VISUALIZATION*
SEE ALSO HEART VISUALIZATION*
** P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
** P50HL-14147-08 0016 Specialized center of research in thrombosis - Nuclear medicine core laboratory (human, dogs, rats, rabbits)
** R01HL-17993-04 0005 Ventricular dynamics from surgically inserted markers - Cardiac dimensions and dynamic after mitral, aortic valve surgery (human)
M R01HL-20895-03 Cineangiographic studies of cardiovascular system
** N01HV-72924-04 Non-invasive detection of atherosclerotic lesions (human, animals)
N01HV-72929-01 Improved detection of atherosclerosis (human, dogs)

CARDIOVASCULAR VISUALIZATION, ANGIOGRAPHY*

** P01HL-04664-18 0011 Cardiovascular and lung dynamics - Oetection of abnormal segments of the human ventricle by measure of asynergy
** P01HL-04664-18 0012 Cardiovascular and lung dynamics - Quantitative single plane left ventricular angiography (human)
P01HL-04664-18 0013 Cardiovascular and lung dynamics - Ventricular function in coronary disease using NTG and ventriculograms (human)
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
** P50HL-14138-05 0009 Center for research on atherosclerosis - Core angiographic-diagnostic laboratory (human, dogs, birds)
P50HL-14138-05 0010 Center for research on atherosclerosis - Oiet and exercise as therapy in men with premature atherosclerosis
** P50HL-14138-05 0016 Center for research on atherosclerosis - Computer analysis of angiograms
P50HL-14187-07 0008 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary thromboembolism (dogs, human)
** P01HL-15194-07 0017 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation and effects of arteriographic lesions on flow (human)
** P01HL-15194-07 0020 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation in arteriographically normal arteries (human)
** P01HL-15265-05 0012 Program on surgical control of the hyperlipidemias - Central arteriography--Radiography laboratory (human)
R01HL-16830-05 Non-invasive determination of aortic blood velocities (human)
** R01HL-17591-03 Oevelopment of electromagnetic rheoangiography (human, dogs)
P50HL-17648-04 0034 Study of ischemic heart disease - Oata management--Hemodynamic data
** P50HL-17655-04 0004 Study of ischemic heart disease - Coronary arteriography in survivors of acute myocardial infarction (human)
** R01HL-19675-02 Coronary pharmacoangiography
R01HL-20872-02 Multidimensional echo imaging of the ischemic heart
** R01HL-20895-03 0009 Cineangiographic studies of cardiovascular system - Aortic changes in atheromatosis (rabbits)
R01HL-21293-02 Randomized study of coronary bypass surgery (human)
** R01HL-22952-01 Validation of quantitative coronary arteriography (dogs)
** N01HV-72930-02 Atherosclerosis assessment--Angiography and ultrasound (dogs, human)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

CARDIOVASCULAR VISUALIZATION, ANGIOTOMOGRAPHY*

R01HL-12715-10 Dynamic cardiovascular measurement using ultrasound
R01HL-20895-03 0005 Cineangiographic studies of cardiovascular system - Computerized axial tomography Cardiac wall motion and infarction (dogs)
R01HL-21589-01 Radiographic contrast toxicity in ischemic heart

CARDIOVASCULAR VISUALIZATION, MICROANGIOGRAPHY*

R01HL-18144-03 Preprocessor system for cardiograms (human)
** R01HL-22088-02 Metabolic basis for diabetic microangiopathy (cattle)

CARDIOVASCULAR VISUALIZATION, ROENTGEN VIDEODENSITOMETRY*

M P01HL-04664-18 Cardiovascular and lung dynamics
** P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
** P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
** P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
** P01HL-04664-18 0004 Cardiovascular and lung dynamics - X-ray cross section imaging of the circulation (dogs)
** P01HL-04664-18 0006 Cardiovascular and lung dynamics - Cross section imaging of organ functions using emitted radiation (dogs)
** P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique
** P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
** P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
** R01HL-18492-03 Measurement of regional coronary flow reserve (human, dogs)
** R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
** R01HL-20895-03 0003 Cineangiographic studies of cardiovascular system - Densitometry in coronary stenosis (human)

CARDIOVASCULAR VISUALIZATION, VENOGRAPHY (GENERAL)*

R01HL-22852-01 Diagnostic techniques in venous thromboembolism (human)

CARNITINE
SEE AMMONIUM QUATERNARY, BETAINE COMPOUNDS, CARNITINE

CAROTENE OXIDASE
SEE OXYGENASES, LIPOXYGENASE

CAROTENOIDS
SEE TERPENES, CAROTENOIDS

CAROTID ARTERIES
SEE CEREBROVASCULAR SYSTEM, CAROTID ARTERIES

CAROTID BODY
SEE NERVOUS SYSTEM, PARAGANGLIA, CAROTID BODY

CAROTID SINUS
SEE CEREBROVASCULAR SYSTEM, CAROTID SINUS

CAROTID SINUS NERVE STIMULATORS
SEE HEART PACEMAKERS ELECTRONIC, CAROTID STIMULATORS

CARRIER MEDIATED PERMEATION
SEE BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, CARRIER MEDIATED PERMEATION

CARRIER PROTEINS
SEE BIOLOGICAL TRANSPORT, TRANSPORT PROTEINS (SEE ALSO SPECIFICS)

CARRIER STATE (COMMUNICABLE DISEASE)
SEE COMMUNICABLE DISEASE TRANSMISSION, CARRIER STATE (COMMUNICABLE DISEASE)

CARTILAGE
SEE SKELETAL SYSTEM, CARTILAGE

CARTILAGE CIRCULATION
SEE SKELETAL SYSTEM CIRCULATION

CASE FINDING
SEE HEALTH CARE SERVICES, CASE FINDING AND OUTREACH

CASE HISTORY
SEE HEALTH RECORDS, CASE HISTORY

CAT
SEE RADIOGRAPHY, SCANNING, CAT*

CATALASE
SEE PEROXIDASES, CATALASE

CATALYSTS
SEE CHEMICAL REACTIONS, CATALYSTS

CATAPRES
SEE IMIDAZOLES, CATAPRES

CATARACT
SEE EYE DISORDERS, LENS DISORDERS, CATARACT

CATARRHINES
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS (CATARRHINES)*

CATECHOLAMINE-ASSOCIATED HYPERTENSION
SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), CATECHOLAMINE ASSOCIATED

CATECHOLAMINES
SEE PHENYLALKYLAMINES, CATECHOLAMINES

CATECHOLAMINES INHIBITORS
SEE PHENYLALKYLAMINES, CATECHOLAMINES INHIBITORS

CATECHOL O-METHYL TRANSFERASE
SEE TRANSMETHYLASES, CATECHOL O-METHYL TRANSFERASE

CATECHOL OXIDASE
SEE OXYGENASES, MONOPHENOL MONOOXYGENASE

CATHARTICS
SEE GASTROINTESTINAL AGENTS, LAXATIVES

CATHEPSIN B
SEE PROTEASES AND PEPTIDASES, CATHEPSIN B

CATHEPSINS
SEE PROTEASES AND PEPTIDASES, CATHEPSINS

CATHETERIZATION
SEE ALSO CANNULATION
SEE ALSO CARDIOVASCULAR DISORDERS DIAGNOSIS, CATHETERIZATION*
SEE ALSO HEART DISORDERS DIAGNOSIS, HEART CATHETERIZATION*
P01HL-06370-17 0016 Cardiopulmonary and renal pathology research center - Endocarditis with pulmonary artery catheters (dogs)
R01HL-22326-01 Noninvasive measurement of cardiac output (dogs)
R01HL-23983-01 Quantitative radiocardiography (human, dogs)
N01HV-12017-15 Fabrication of grafted hydrogel coatings for plastic heart assist devices

CATION
SEE IONS, CATION

CATTLE
SEE MAMMALS, ARTIODACTYLA, CATTLE*

CAUCASIAN RACE
SEE SOCIAL GROUPS, RACIAL STOCKS, WHITE RACE

CAUDATE NUCLEUS
SEE BRAIN, BASAL GANGLIA, CAUDATE NUCLEUS

CAVIA
SEE MAMMALS, RODENTS, HYSTRICOMORPHA, GUINEA PIGS*

CCA (VIRUS)
SEE VIRUSES, MYXOVIRUSES, RESPIRATORY SYNCYTIAL VIRUSES

CEBUS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*

CELL ADHESION
SEE ALSO CELL-CELL INTERACTION, CELL AGGREGATION
R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
P01HL-13738-08 0004 Cardiac assist devices and artificial hearts - Hematological evaluation of prosthetic materials (calves)
P50HL-14147-08 0012 Specialized center of research in thrombosis - Tissue culture study of arterial cells (human, hamster)
P50HL-14217-08 0050 Specialized center of research in thrombosis - Electron microscopy section (dogs)
P50HL-14217-08 0051 Specialized center of research in thrombosis - Microcirculation section (bat, hamster)
** P50HL-14230-07 0095 A/S SCOR--Lipids, atherosclerosis and thrombosis - Blood platelet adherence to endothelial smooth muscle cells, fibroblast (human)
R01HL-14739-06 The role of leukocytes in thrombotic disease (human, dogs)
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
P01HL-15195-04 0004 Program project in biological materials - Biological evaluation and surface interaction studies (dogs)
R01HL-15230-05 Molecular basis of V Willebrand's disease and hemophilia (human, cattle)
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
R01HL-17437-03 'Perfusion lung': Role of traumatized leukocytes (dogs, human)
** R01HL-17525-03 Molecular basis of collagen-platelet interaction (human, rat)
R01HL-17596-03 Leukocyte-endothelial interactions (rats)
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
** R01HL-17930-03 Platelet membrane function Assessment and application (animals)
R01HL-18030-04 The role of contractile proteins in platelets (human, rabbits)
R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)
P50HL-18828-03 0009 Specialized center of research in thrombosis Platelet formation and megakaryocyte cell biology (guinea pig, human)
** R01HL-19105-02 Detection and adherence of fibrin monomer complexes (human)
R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
** R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R01HL-19725-03 Complement induced pulmonary injury (dogs, rabbits, sheep)
R01HL-20251-02 A novel approach to nonthrombogenic polymer surfaces (sheep, cattle)
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)
R01HL-20675-02 Alveolar macrophage function in man
R23HL-21805-01 Tissue cell interactions with vascular prostheses (human, rats, mice)
R01HL-22081-20 The mechanism of collagen formation (human, cattle)
R01HL-22338-01 Platelet adhesion and aggregation in a flow chamber (human)
R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
** R01HL-22585-01 Plasma proteins adsorbed to artificial organs (human, rabbits)
R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces
N01HV-32953-10 Materials compatible with blood (dogs)

CELL AGE
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
R01HL-13237-09 Erythrocytes during early development (human, animals)
P60HL-15157-07 0012 Comprehensive center for sickle cell disease - Sickling and intracellular pH (human)
P60HL-16008-06 0017 Wayne State University comprehensive sickle cell center - Oxygen transport kinetics of pre- and post-sickling cells (human)
R01HL-16330-06 Aging-tissue injury and repair (rats)
M P01HL-16833-04 Hemoglobin and red cell system in hemoglobinopathies
P01HL-16833-04 0011 Hemoglobin and red cell system in hemoglobinopathies - Relationship between hemoglobin and RBC membrane in sickling cells (human, rats)
P01HL-16851-04 0001 Human red cell membrane in health and disease - Rheology of erythrocyte membrane (human, amphiuma)
P01HL-16851-04 0005 Human red cell membrane in health and disease - Relation of hemoglobin species to membrane properties (human)
R01HL-17881-15 Biosynthesis and degradation of blood group substances (human, animals)
P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
P01HL-18208-04 0007 Center for the study of blood cell rheology - RBC membrane protein (human)
** R01HL-18284-04 Aging erythrocytes--Bio-recognition and elimination (monkeys)
R01HL-19946-03 Reduction of iron overload in thalassemia (children, rabbits, dogs, monkeys)
R01HL-19996-02 Role of membrane proteins in platelet function (human, rabbits)
R23HL-21950-01 Endothelial cell mechanisms in vascular disease (human)
** R01HL-22671-01 Removal of senescent and stored human red cells

CELL AGGREGATION
SEE CELL-CELL INTERACTION, CELL AGGREGATION

CELL ANALYZERS-SEPARATORS
SEE CELL SORTING

CELL BIOLOGY (GENERAL) SEE ALSO CELL.., CYTO..*
P01HL-06314-17 0052 Immunologic mechanisms in cardiovascular disease - Role of cyclic nucleotides in neutrophil function (human)
** P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-14164-07 0044 A/S SCOR–Comparative and experimental atherosclerosis - Cell biology-atherosclerosis project (pigeons)
P01HL-16137-05 0013 Alveolar biology - Oevelopment and pathology of surfactant--Formation of alveolar (rabbits, sheep)
R01HL-18284-04 Aging erythrocytes--Bio-recognition and elimination (monkeys)
** R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
M P01HL-20592-02 Cell biology of cardiac and skeletal muscle
P01HL-20592-02 0003 Cell biology of cardiac and skeletal muscle - Cellular magnesium and anion activities in ion-specific microelectrodes (frogs)
** P01HL-20592-02 0004 Cell biology of cardiac and skeletal muscle - Excitation, conduction and contraction--Modelling in Purkinje fibers
** P01HL-20592-02 0005 Cell biology of cardiac and skeletal muscle - Quantitative voltage studies
** P01HL-20592-02 0006 Cell biology of cardiac and skeletal muscle - Permeability and ultrastructure of cardiac nexuses (rabbits, cattle, rats)
** P01HL-20592-02 0010 Cell biology of cardiac and skeletal muscle - Mitochondrial genesis during myocardial cell hypertrophy and hyperplasia (rats)
** P01HL-20592-02 0011 Cell biology of cardiac and skeletal muscle - Myosin and cytochrome oxidase messenger RNAs (chicken)
R01HL-20643-02 Analysis of heart cell contraction (rats)
R01HL-20666-02 Cell biology of platelet preservation (human)
R01HL-21140-01 Studies of pulmonay alveolar macrophage function (rabbits)
** R01HL-21568-02 Cell biology of the alveolar-capillary unit (animals)
** P01HL-22602-01 0003 Pathophysiology of the endothelium - Mechanisms of endothelial proliferation (human, animals)
** R01HL-22729-01 Intracellular degradation of newly synthesized collagen (human, chick, rabbit)

CELL BIOLOGY STUDY SECTION

** R01HL-01770-26 Structural aspects of lung surfactant system (rats)
** R01HL-04512-19 Ultrastructural studies of capillary permeability (rats, mice)
** R01HL-16507-04 Heart cell interactions and cell junction biogenesis (mice, rats, rabbits)
** R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
** R01HL-20902-02 Studies on marginal band system of erythrocytes (amphibians, reptiles, fish)
** R01HL-22560-02 Structure and motion of cilia (Tetrahymena, mussels)
** R01HL-23010-01 Control and mechanism of platelet aggregation (human)
** R01HL-23013-01 Smooth muscle development in vitro (chick embryo)

CELL CAPSULE

SEE CELL COMPONENTS, CELL CAPSULE

CELL-CELL INTERACTION

SEE ALSO CELL FUSION (GENERAL)
SEE ALSO CELL GROWTH REGULATION, CONTACT INHIBITION
** P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changes in lymphocytes (human, mice)
P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease - Mitogenic and antigenic activation of lymphocyte sub-populations
R01HL-07652-14 Oestruction of red blood cells in hemolytic anemias (human, guinea pigs)
** P50HL-14230-07 0096 A/S SCOR–Lipids, atherosclerosis and thrombosis - Ultrastructural studies of endothelial cells (human)
** R01HL-15226-06 Interaction of blood cells with fibrinogen and fibrin (human, animals)
M P01HL-16117-05 Ion movements and membranes in cardiovascular control
M P01HL-16411-04 Blood systems in coagulation and vessel disease
P01HL-16411-04 0003 Blood systems in coagulation and vessel disease - Molecular events involving the late stages of coagulation (rabbits)
** R01HL-16507-04 Heart cell interactions and cell junction biogenesis (mice, rats, rabbits)
R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
** R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
** R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
P01HL-16833-04 0009 Hemoglobin and red cell system in hemoglobinopathies - Rheological studies of sickled cells (human)
P01HL-16851-04 0011 Human red cell membrane in health and disease - Ultrastructure laboratory--Core facility
** R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
R01HL-18584-03 Effects of physical forces on platelets (human)
P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
** R01HL-18826-04 Interaction of peptides and target cells in lung (human)
M P01HL-18827-02 Platelet vessel wall interactions in thrombogenesis
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
P01HL-18827-02 0003 Platelet vessel wall interactions in thrombogenesis - Tumor cell and platelets in thrombogenesis and metastasis (human, animals)
P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
P50HL-18828-03 0002 Specialized center of research in thrombosis - Endothelial cell biology (human, guinea pig)
R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
P50HL-19171-02 0008 Pulmonary SCOR–Lung injury by childhood infections - Host-parasite interaction–Electron microscopy, radioautography, histochemistry
P50HL-19171-02 0009 Pulmonary SCOR–Lung injury by childhood infections - Host-parasite interaction–Scanning electron microscopy, freeze-fracture methods
P50HL-19171-02 0010 Pulmonary SCOR–Lung injury by childhood infections - Metabolic pathways of normal and injured respiratory cells
P01HL-19242-02 0009 Study of vascular smooth muscle - Electrophysiology of vascular smooth muscle (rats, chick embryo)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R01HL-19996-02 Role of membrane proteins in platelet function (human, rabbits)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
R01HL-20132-03 Histogenesis and biochemistry of embryonic lung (birds)
** R23HL-21805-01 Tissue cell interactions with vascular prostheses (human, rats, mice)
R01HL-21988-01 Biochemistry of human platelet chemotaxis
** R01HL-22235-01 Mechanism of cardiac pacemaking (rabbits)
R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
M P01HL-22602-01 Pathophysiology of the endothelium
** P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
** P01HL-22602-01 0004 Pathophysiology of the endothelium - Endothelium, platelets smooth muscle and atherosclerosis (rabbits)
R23HL-22621-01 Blood cell-mediated pulmonary (human)
R01HL-22738-01 Role of bioelectric potentials in platelet adherence (bats, rats, hamsters)
** R01HL-22883-01 Lung epithelial cell interactions in vitro
** R01HL-23010-01 Control and mechanism of platelet aggregation (human)
N01HV-42969-06 Interactions of natural and chemically modified biopolymers with blood (dogs)
N01HV-42984-05 Interactions of modified biopolymers with blood (humans, rats)
** N01HV-52907-04 Interactions of platelets with collagens (human, mammals)

CELL-CELL INTERACTION, CELL AGGREGATION

SEE ALSO BLOOD PLATELETS, PLATELET AGGREGATION
SEE ALSO CELL ADHESION
R01HL-05168-19 Inhomogencity of hemoglobin types (human)
P01HL-11310-12 0097 Mechanisms of cardiovascular disease - Structural-functional relationships of neuronal differential alloantigens (mice)
R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
P01HL-13737-07 0026 Assisted circulation - Hemostatic mechanism (human, dogs)
R01HL-16375-04 Investigation of hemoglobin S properties (human)
P01HL-16411-04 0004 Blood systems in coagulation and vessel disease - Platelets reactions in vascular injury (human, animals)
P01HL-16411-04 0006 Blood systems in coagulation and vessel disease - Factor VII–Immunochemistry and immunobiology (human, mice)
P01HL-16851-04 0003 Human red cell membrane in health and disease - Modeling membrane mechanics and blood rheology
P01HL-16851-04 0006 Human red cell membrane in health and disease - Hexose transport and erythrocyte membrane proteins (human)
** P01HL-16851-04 0008 Human red cell membrane in health and disease - Force balance in red cell interactions (human)
P01HL-18208-04 0007 Center for the study of blood cell rheology - RBC membrane protein (human)
R01HL-21217-01 Ion and 5-hydroxytryptamine transport by platelets
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
R01HL-22883-01 Lung epithelial cell interactions in vitro

CELL-CELL INTERACTION, INTERCELLULAR CONNECTIONS-JUNCTIONS

SEE ALSO NERVOUS SYSTEM, NERVE ENDINGS, SYNAPSES
SEE ALSO NEUROMOTOR SYSTEM, NEUROMUSCULAR JUNCTION
R01HL-01770-26 Structural aspects of lung surfactant system (rats)
P01HL-03174-23 0001 Mechanisms of acute vascular reaction to injury - Response of the vascular intima to injury (human, rats)
** R01HL-04512-19 Ultrastructural studies of capillary permeability (rats, mice)
** P01HL-06285-18 0212 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function–Gap junction (bovine)
** P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)
R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
R01HL-12486-10 Structure-function correlation in the atrium (rabbits)
P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications - Myocardial cells in tissue culture (rats, chick embryo)
** P01HL-16117-05 0001 Ion movements and membranes in cardiovascular control - Oevelopmental studies of contractile cell junctions (rats, rabbits, elasmobranch)
** R01HL-16328-06 Membrane electrical properties of vascular muscle (human, animals)
R01HL-16507-04 Heart cell interactions and cell junction biogenesis (mice, rats, rabbits)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
R01HL-17080-05 Localization of pore systems in capillary walls (rats, mice, rabbits)
R01HL-17581-03 Patent ductus arteriosus and pulmonary hypertension (dogs)
R01HL-17596-03 Leukocyte-endothelial interactions (rats)
P50HL-17648-04 0031 Study of ischemic heart disease - Ultrastructural consequences of myocardial ischemia (rat)
R01HL-18631-03 Ultrastructural correlates of myocardial ischemia (rats, swine)
P01HL-19737-02 0002 Cellular and molecular aspects of respiratory physiology - Airway smooth muscle in health and disease (human, animals)
P01HL-20592-02 0006 Cell biology of cardiac and skeletal muscle - Permeability and ultrastructure of cardiac nexuses (rabbits, cattle, rats)
R23HL-21853-01 Lung metabolism and alveolo-capillary permeability (rats)
** R01HL-22924-01 The airway mucosal barrier (guinea pigs)

CELL CHEMOTAXIS

SEE ENVIRONMENT, ORIENTATION, CHEMOTAXIS

CELL COMMUNICATIONS

SEE CELL-CELL INTERACTION

CELL COMPONENTS

SEE ALSO CELL FLUIDS
SEE ALSO GENETICS, CHROMOSOMES
SEE ALSO GENETICS, GENES
SEE ALSO MUSCLE CELLS, SARCOMERES
SEE ALSO MUSCLE CELLS, SARCOSOMES
SEE ALSO MUSCLES, MYOFIBRILS
SEE ALSO NERVOUS SYSTEM, NEURONS, AXONS
R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
** P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
P01HL-15835-06 0021 Study of muscles related to heart disease - Fast kinetic studies in muscle subcellular organelles (animals)
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
R01HL-18077-04 Smooth muscle cell organization and Ca20 concentration control (chickens)
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
** R01HL-20718-02 Microstructural integrity of stored human platelets
R23HL-21413-02 Structure and function of platelet calcium-binding protein (human)

CELL COMPONENTS, CELL CAPSULE

R01HL-03919-20 The cell suface of streptococci (rats, human)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

CELL COMPONENTS, CELL MEMBRANE

SEE ALSO BLOOD (HEMATOLOGIC) TESTS, OSMOTIC FRAGILITY*
SEE ALSO CELL COMPONENTS, INTRACELLULAR MEMBRANES
SEE ALSO CELL COMPONENTS, LIPOSOMES
SEE ALSO CELL COMPONENTS, MITOCHONDRIAL MEMBRANE
SEE ALSO CELL COMPONENTS, NUCLEAR MEMBRANE
SEE ALSO MEMBRANE, ERYTHROCYTE GHOST AND MEMBRANE
SEE ALSO MEMBRANE SURFACE (BIOLOGICAL) ACTIVITY (GENERAL)
SEE ALSO PROTEINS, MEMBRANE PROTEINS

R01HL-00082-30 Transmembrane movements (barnacles, frogs, rats)
R01HL-01770-26 Structural aspects of lung surfactant system (rats)
R01HL-01803-23 0001 Arteriosclerosis, glomerulonephritis, rheumatic fever - Post-streptococcal glomerulonephritis (rabbit)
R01HL-01974-24 Ion-pump in the erythrocyte (rabbits, guinea pigs)
R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
P01HL-03174-23 0009 Mechanisms of acute vascular reaction to injury - Mast cell lipid interaction (human, rats)
** R01HL-03919-20 The cell suface of streptococci (rats, human)
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
R01HL-04512-19 Ultrastructural studies of capillary permeability (rats, mice)
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
** P01HL-06285-18 0196 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Epithelial cell membranes (toads)
P01HL-06285-18 0207 Cardiovascular-respiratory physiology and biochemistry - Feedback control of cholesterol synthesis in non-hepatic tissues (animals)
** P01HL-06285-18 0211 Cardiovascular-respiratory physiology and biochemistry - Purple membrane of Halobacteria
** P01HL-06285-18 0212 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gap junction (bovine)
P01HL-06285-18 0213 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gas vacuole membrane (Halobacterium)
** P01HL-06285-18 0214 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function-EM of macromolecules
P01HL-06314-17 0051 Immunologic mechanisms in cardiovascular disease - Conformational studies of phospholipid membranes and proteins
P01HL-06370-17 0006 Cardiopulmonary and renal pathology research center - Chemical basis of ultrastructural changes in disease (rats)
P01HL-06835-17 0018 Cardiovascular disease - Fatty acid concentration (rats)
P01HL-06835-17 0019 Cardiovascular disease - Fatty acid distribution (rats)
** R01HL-07449-17 Formation and survival of red blood cells (human)
R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
P01HL-09011-15 0015 A research and resource program in blood - Regulation of synthesis and transport of diverse proteins in liver (rats)
P01HL-09011-15 0019 A research and resource program in blood - The transport mechanism of mRNA (rat, yeast, ascites cells)
R01HL-09610-14 Control of cholesterol metabolism--Bile acid transport
M R01HL-09906-13 Membrane transport processes in red blood cells
R01HL-09906-13 0020 Membrane transport processes in red blood cells - Calibration of a fluorescent probe for erythrocytes
R01HL-09906-13 0021 Membrane transport processes in red blood cells - Membrane potentials in human red blood cells due to proton gradients
R01HL-09906-13 0022 Membrane transport processes in red blood cells - Anion transport in dog and cat red cells
R01HL-09906-13 0023 Membrane transport processes in red blood cells - Cation and anion movements in two sub-groups of dog erythrocytes
R01HL-09906-13 0024 Membrane transport processes in red blood cells - Inhibition of sulfate transport in human RBCs by isothiocyanic acid esters
R01HL-09906-13 0025 Membrane transport processes in red blood cells - Mechanism of propranolol induced Ca-dependent K efflux from human RBCs
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
R01HL-10316-13 Structural studies on low density serum lipoproteins (human)
R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
R01HL-10942-09 Study of genetic hypertension in rats
** P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
** P01HL-11310-12 0102 Mechanisms of cardiovascular disease - Cardiac membrane and ion mobility (dogs)
P01HL-11351-12 0002 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ionic exchange (rats, rabbits)
P01HL-11351-12 0009 Cellular and molecular mechanisms of myocardial function - Myocardial membrane surface coat (rats, rabbits)
M P01HL-12157-11 Functions and mechanisms of cell membrane ion transport
R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
P01HL-13108-09 0013 Clinical heart transplantation - Cardiomyopathic lymphocyte responsiveness to cultured endothelium
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
R01HL-13349-06 Analysis of activation process in heart muscle (guinea pigs, rabbits, human)
R01HL-13921-07 The lung as a metabolic organ (animals)
P50HL-14147-08 0012 Specialized center of research in thrombosis - Tissue culture study of arterial cells (human, hamster)
P50HL-14212-07 0007 Correlated studies of pulmonary fibrosis - Protein metabolism in alveolar macrophages (rabbits, guinea pigs, human)
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
** P50HL-14236-05 0008 Prevention of premature arteriosclerosis - Lipoproteins of cell membranes (human)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
** P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
R01HL-14820-07 Factors affecting physiology of biological membranes (human)
R01HL-14990-07 Lipid transport in avian species (chickens)
P50HL-15061-07 0009 Response of lung to injury - Alveolar macrophages (human, rabbits)
** P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
R01HL-15226-06 Interaction of blood cells with fibrinogen and fibrin (human, animals)
R01HL-15567-05 Cardiovascular phosphoinositide metabolism (rats)
R01HL-15648-06 Lipid metabolism--Transport by lateral diffusion (human, rabbit, cattle)
P01HL-15835-06 0004 Study of muscles related to heart disease - Actomyosin systems and cell motility (slime molds, human)
P01HL-15835-06 0021 Study of muscles related to heart disease - Fast kinetic studies in muscle subcellular organelles (animals)
R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
M P01HL-16117-05 Ion movements and membranes in cardiovascular control
** P01HL-16117-05 0005 Ion movements and membranes in cardiovascular control - Properties of isolated cell membranes (rabbits, cats)
** R01HL-16567-04 Differentiation of the heart-cell membrane (mice, chick)
R01HL-16628-05 Regulation of lipid metabolism (rats)
R01HL-16706-04 Excitation-contraction coupling and heart failure (dogs, rabbits)
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
M P01HL-16833-04 Hemoglobin and red cell system in hemoglobinopathies
** P01HL-16833-04 0009 Hemoglobin and red cell system in hemoglobinopathies - Rheological studies of sickled cells (human)
P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
M P01HL-16851-04 Human red cell membrane in health and disease
** P01HL-16851-04 0009 Human red cell membrane in health and disease - Blood cell properties in circulatory regulation (dogs, rabbits)
** P01HL-16851-04 0011 Human red cell membrane in health and disease - Ultrastructure laboratory--Core facility
** P01HL-16851-04 0012 Human red cell membrane in health and disease - Computer unit--Core facility
R01HL-17080-05 Localization of pore systems in capillary walls (rats, mice, rabbits)
P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
P60HL-17269-04 0045 National heart and blood vessel research and demonstration center - Regulation of lipogenesis in hyperlipoproteinemia (human, tissue culture)
R01HL-17404-05 Immunologic mechanisms in heart disease (mice)
R01HL-17525-03 Molecular basis of collagen-platelet interaction (human, rat)
** R01HL-17567-03 Lipoprotein-cytolytic toxin interaction (Staphylococcus aureus, mammals, human)
P50HL-17648-04 0027 Study of ischemic heart disease - Phospholipid metabolism following cardiac injury and repair (rat)
P50HL-17670-04 0023 Study of ischemic heart disease - Energy metabolism in acute myocardial ischemic injury (dogs)
P01HL-17812-04 0005 Thrombosis and plasma proteins - In vitro systems of normal platelets, white cells, sera (human)
R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
** R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
R01HL-17967-04 Limiting factors in oxygen uptake in the lung
R01HL-18502-03 Enzymatic regulation of platelet function (human)
R01HL-18551-03 Spectrin, actin, lipid and red cell membrane structure
** R01HL-18553-03 Membrane defects in familial hypercholesteremia (human)
M P01HL-18577-03 Lipoproteins--Cell surface interactions
P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
P01HL-18577-03 0004 Lipoproteins--Cell surface interactions - Analysis and chemical modification of proteins in lipid transport (human, dogs)
R01HL-18692-03 Glycosaminoglycans and lipoproteins of human plasma
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
** P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
** P50HL-18828-03 0004 Specialized center of research in thrombosis - Membrane changes in platelet physiology--Role of complement (mice, human)
R01HL-18887-03 Hypolipidemic drugs--Effects on FFA-albumin association (human, cattle)
R01HL-19000-03 Irreversible myocardial injury (rats)
R01HL-19234-03 Streptococci and heart--Cell-mediated cross-reaction (mice)
P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
R01HL-19429-03 Phagocytosis--Ingestion in alveiolar macrophages (rabbits)
R01HL-19454-02 Rheological factors in transport across arterial wall (dogs)
** R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-19720-03 Evaluation of anti-fibrotic agents in pulmonary fibrosis (rats)
R01HL-20002-03 Pulmonary complications of viral infections (children)
R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
** R01HL-20365-03 Molecular mechanisms of anion transport
R01HL-20394-03 Complement activation by heart subcellular membranes (human, dog)
R01HL-20594-02 Renal enzymes that regulate blood pressure (human, rats)
R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
R01HL-20818-02 Platelet storage at 22 degrees C (human)
** R01HL-20859-02 Beta adrenergic catecholamine receptor
** R01HL-20971-10 Membrane glycoproteins of platelets and leukocytes (human)
R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
R01HL-21030-01 Calcium regulation and hypertension (rats)
** R01HL-21120-02 Membrane dynamics in alveolar macrophages (rabbits)
** R01HL-21246-02 Roles of cholesterol and its metabolic regulation (CHO cell mutants)
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
R01HL-21342-02 Isolation and analysis of sodium channel from heart (frogs)
R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
R01HL-21735-01 Electrophysiology after healed myocardial infarction (cats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-22081-20 The mechanism of collagen formation (human, cattle)
R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)
R01HL-22570-01 Interactions of sterols in biological systems (human)
** P01HL-22619-01 0001 Cellular mechanisms of heart failure - Cell membrane isolation and reconstitution (dogs, lambs)
** P01HL-22619-01 0002 Cellular mechanisms of heart failure - Structure of sodium, potassium-adenosine triphosphatase (lambs, dogs)
** P01HL-22619-01 0004 Cellular mechanisms of heart failure - Mechanism of action of Na, K-ATPase (sheep, cattle)
P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)
R01HL-22682-01 Structure and function of high density lipoprotein (human, rat)
R01HL-22767-01 Model system for cardiac action potentials (squid, axons)
R01HL-22883-01 Lung epithelial cell interactions in vitro
R01HL-23010-01 Control and mechanism of platelet aggregation (human)
R01HL-23013-01 Smooth muscle development in vitro (chick embryo)
R01HL-23115-01 Regulation of active sodium transport (frogs, rats)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
R01HL-23588-01 NOV infection--Analysis at the subcellular level (chickens)
R01HL-23600-01 Ions, water, and hypertension (human, dogs, rats)
** R01HL-23900-01 Mechanical measurement of cell membrane viscosity (human)

CELL COMPONENTS, CELL NUCLEUS

R01HL-05360-19 Cholesterol biosynthesis and its control in liver (rats)
P01HL-09011-15 0019 A research and resource program in blood - The transport mechanism of mRNA (rat, yeast, ascites cells)
P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
R01HL-24048-01 Regulation of hemoglobin synthesis in chick embryos

CELL COMPONENTS, CELL WALL

R01HL-01803-23 0001 Arteriosclerosis, glomerulonephritis, rheumatic fever - Post-streptococcal glomerulonephritis (rabbit)
R01HL-03919-20 The cell suface of streptococci (rats, human)
P01HL-12157-11 0060 Functions and mechanisms of cell membrane ion transport - Ion transport and electrical properties of giant-celled aiga
R01HL-19234-03 Streptococci and heart--Cell-mediated cross-reaction (mice)

CELL COMPONENTS, CILIA

SEE ALSO DIAGNOSTIC TESTS, CYTODIAGNOSIS, CILIOINHIBITORY TEST*
P01HL-10436-13 0016 A multidisciplinary study of congenital heart disease - Genetic studies of congenital heart disease (human)
R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
P50HL-19171-02 0009 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Scanning electron microscopy, freeze-fracture methods
P50HL-19171-02 0010 Pulmonary SCOR--Lung injury by childhood infections - Metabolic pathways of normal and injured respiratory cells
** R01HL-22560-02 Structure and motion of cilia (Tetrahymena, mussels)

CELL COMPONENTS, CILIARY MOVEMENT

P01HL-06285-18 0189 Cardiovascular-respiratory physiology and biochemistry - Mucociliary clearance (cats, dogs)
** P01HL-07896-15 0043 Environmental biomedical research program - Effect of hyperbaric oxygen on the lung (human, rabbits)
P50HL-14153-07 0016 Johns Hopkins Lung Center--Chronic diseases of airways - Airways defense mechanisms (dogs)
R01HL-14271-07 Physico-chemical properties of tracheal mucus (dogs, frogs)
** R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)
** R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)
P50HL-19157-02 0003 Studies in cystic fibrosis and bronchiolitis - Nasal mucosal function in patients with cystic fibrosis
** R01HL-19431-03 Regional mucociliary transport in the human lung
** R01HL-20192-02 Ciliary activity of the lung studied by laser scattering
R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)
** R01HL-22560-02 Structure and motion of cilia (Tetrahymena, mussels)

CELL COMPONENTS, CYTOPLASM

R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)
P01HL-09011-15 0019 A research and resource program in blood - The transport mechanism of mRNA (rat, yeast, ascites cells)
R01HL-19132-04 Role of zinc transferrin in lymphocyte transformation (human)
R01HL-19933-02 Membrane and red cell dysfunction in hemolytic anemia (human)
R01HL-22981-17 Membrane-associated functions in microorganisms (bacteria, protozoa)
R01HL-24048-01 Regulation of hemoglobin synthesis in chick embryos

CELL COMPONENTS, CYTOPLASMIC GRANULES

SEE ALSO CELL COMPONENTS, MICROSOMES
P01HL-06314-17 0052 Immunologic mechanisms in cardiovascular disease - Role of cyclic nucleotides in neutrophil function (human)
P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
P50HL-18828-03 0008 Specialized center of research in thrombosis - Biochemistry, physiology--Platelets and subcellular platelet particles (human)
** R01HL-19379-03 Characterization of small-granule cells in the lung (mammals)

CELL COMPONENTS, ENDOPLASMIC RETICULUM

SEE ALSO MEMBRANE SURFACE (BIOLOGICAL) ACTIVITY (GENERAL)
SEE ALSO MUSCLE CELLS, SARCOPLASMIC RETICULUM
SEE ALSO PROTEINS, MEMBRANE PROTEINS
P01HL-06370-17 0006 Cardiopulmonary and renal pathology research center - Chemical basis of ultrastructural changes in disease (rats)
P01HL-06835-17 0062 Cardiovascular disease - Role of collagen in atherosclerosis (dogs, pigeons)
P01HL-09011-15 0015 A research and resource program in blood - Regulation of synthesis and transport of diverse proteins in liver (rats)
R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
R01HL-15427-06 Secretion of plasma lipoproteins (rats)
P50HL-17646-04 0012 Study of ischemic heart disease - Role of microcirculation in progression of myocardial ischemic injury (rat)
P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
R01HL-20594-02 Renal enzymes that regulate blood pressure (human, rats)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)

CELL COMPONENTS, FLAGELLA

R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions

CELL COMPONENTS, GOLGI APPARATUS

SEE ALSO MEMBRANE SURFACE (BIOLOGICAL) ACTIVITY (GENERAL)
SEE ALSO PROTEINS, MEMBRANE PROTEINS
P50HL-14237-07 0004 Support for arteriosclerosis center - Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys)
P01HL-15835-06 0019 Study of muscles related to heart disease - Vascular smooth muscle--Electron microscopy, excitation contraction (animal)
P50HL-21006-02 0003 Specialized center of research in arteriosclerosis - Transport of vitamin A in plasma (human, rat)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
** R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

CELL COMPONENTS, INTRACELLULAR MEMBRANES

SEE ALSO MEMBRANE SURFACE (BIOLOGICAL) ACTIVITY (GENERAL)
SEE ALSO PROTEINS, MEMBRANE PROTEINS
R01HL-02986-21 Zonal renal change with potassium deficiency (rats, human)
** P01HL-06285-18 0213 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gas vacuole membrane (Halobacterium)
** R01HL-18900-03 Intercellular factors in function of cardiac cells
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
** R01HL-21845-01 Human red cell membrane--Structure and function
R01HL-23128-01 Cardiac contractility--Ischemia and hypoxia (rabbits, rats)

CELL COMPONENTS, LIPOSOMES

P50HL-14147-08 0015 Specialized center of research in thrombosis - Charge related properties of phospholipid surfaces in monolayers and vesicles
P50HL-14237-07 0004 Support for arteriosclerosis center - Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys)
R01HL-14781-08 Lipid deposition in mammalian cells (mice)
R01HL-16318-21 Biochemistry and pharmacology of Na-K transport
** P01HL-18577-03 0003 Lipoproteins--Cell surface interactions - Mechanism of lipid exchange in lipoproteins and cell membranes
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
P01HL-18827-02 0005 Platelet vessel wall interactions in thrombogenesis - Platelet vessel wall interactions in thrombogenesis (human)
** R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
R01HL-20254-02 Probes of heart and nerve membranes--Fluorescent dyes
R01HL-20303-03 Cholesterol distribution in erythrocyte membrane (human, animals)
R01HL-20365-03 Molecular mechanisms of anion transport
R01HL-21845-01 Human red cell membrane--Structure and function
** R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)
P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
P01HL-22619-01 0001 Cellular mechanisms of heart failure - Cell membrane isolation and reconstitution (dogs, lambs)
P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
P01HL-22633-01 0004 Cellular and molecular biology of lipoprotein metabolism - Lipid-lipid and lipid-protein interactions in serum lipoproteins (human, rats)
R01HL-22813-01 Palmitylcarnitine inhibition of ion pumps in ischemia (dogs)
** R23HL-22839-01 Cellular translation of liposomally-delivered mRNA (human, mammals)

CELL COMPONENTS, LYSOSOMES

R01HL-02986-21 Zonal renal change with potassium deficiency (rats, human)
P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
R01HL-14706-07 Fetal hearts in organ culture (mice)
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
P01HL-16769-05 0004 Pathobiologic and host defense reactions in the lung - Pathogenesis of Pseudomonas and Serratia pneumonias (rabbits)
P50HL-17648-04 0025 Study of ischemic heart disease - Destruction and repair of cardiac muscle cell constituents (rat)
** P50HL-17669-04 0011 Ischemic heart disease center (SCOR) - Lysosomal function and lysosomal enzymes in normal and ischemic heart (rabbit)
** R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
** R01HL-18258-04 Regulation of protein degradation in heart (rats)
P50HL-18318-03 0014 Pathogenesis and complications of hypertension - Arterial metabolism and atherogenesis (rat, rabbit)
R01HL-18631-03 Ultrastructural correlates of myocardial ischemia (rats, swine)
R01HL-18647-03 Ischemic myocardial injury in cultured heart cells (rats)
R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)
** R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-19148-03 Myocardial organelle lipid structure and function (dogc rat)
P50HL-19187-02 0004 Pediatric pulmonary SCOR-Hyaline membrane disease - Hyaline membrane disease-Surface active material, lamellar bodies (mice, rats)
** R01HL-19721-03 Lung inflammation-Lysosomal proteases and liposomes (human, rabbits)
R01HL-19725-03 Complement induced pulmonary injury (dogs, rabbits, sheep)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
R01HL-20125-02 Cyclic nucleotides and alveolar macrophage activation (rabbits)
R01HL-20394-03 Complement activation by heart subcellular membranes (human, dog)
R01HL-20695-02 Stored platelets (human)
P01HL-20948-02 0001 Mulecular basis of cholesterol metabolism Biochemical and ultrastructural characterization of LDL in human fibroblasts
R23HL-21116-02 Mechanisms ot membrane and tissue damage in lung (dogs, rabbits)
R01HL-21140-01 Studies of pulmonay alveolar macrophage function (rabbits)
** R23HL-21411-02 Control ot extracellular lysosomal hydrolase levels (rats)
** R01HL-21756-11 Vascular disease-Cytochemistry and ultrastructure (human, rats, mice, hamsters)
P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)
R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)

CELL COMPONENTS, MICROFILAMENTS

R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
P01HL-15832-06 0001 Chemical-structural predispositions to lung injury - Chemical composition of lung connective tissue proteins (human, animals)
** P01HL-15832-06 0009 Chemical-structural predispositions to lung injury - Immunology--Enzyme degradation products of human lung elastin and microfibril
** P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
P01HL-15835-06 0004 Study of muscles related to heart disease - Actomyosin systems and cell motility (slime molds, human)
P50HL-17646-04 0012 Study of ischemic heart disease - Role of microcirculation in progression of myocardial ischemic injury (rat)
R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
P01HL-18645-03 0003 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
R01HL-20666-02 Cell biology of platelet preservation (human)
** R01HL-20718-02 Microstructural integrity of stored human platelets
R01HL-20902-02 Studies on marginal band system of erythrocytes (amphibians, reptiles, fish)
R01HL-21988-01 Biochemistry of human platelet chemotaxis
R01HL-23233-01 Pulmonary artery intermediate filament structure (cattle)

CELL COMPONENTS, MICROSOMES

SEE ALSO CELL COMPONENTS, CYTOPLASMIC GRANULES
SEE ALSO CELL COMPONENTS, ENDOPLASMIC RETICULUM
SEE ALSO CELL COMPONENTS, RIBOSOMES
R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
P01HL-03174-23 0010 Mechanisms of acute vascular reaction to injury - Search for mutagens in the human blood (bacteria, animals)
R01HL-03734-18 Metabolism of arterial tissue in atherosclerosis (rabbits)
R01HL-08634-15 Enzymic cholesterol synthesis (human, rats, protozoa, yeast)
P01HL-08899-14 0062 Tolerance to respiratory gases in health and disease - Influence of oxygen at high pressure upon oxidation (rats)
R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
** R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
P01HL-14388-07 0172 Regulation of the circulation in pathological states - cAMP-dependent protein kinase from heart and vascular smooth muscle (guinea pigs)
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions Effects of pressure on membrane and cellular function (human, rabbits)
R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
P01HL-16117-05 0001 Ion movements and membranes in cardiovascular control Developmental studies of contractile cell junctions (rats, rabbits, elasmobranch)
P01HL-16117-05 0002 Ion movements and membranes in cardiovascular control Fluorescence and excitation contraction coupling in heart (frogs)
P01HL-16607-05 0007 Calcium ion and control of cardiovascular function Ultrastructure and conformation in sarcoplasmic reticulum (rabbits)
P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
P50HL-17648-04 0027 Study of ischemic heart disease - Phospholipid metabolism following cardiac injury and repair (rat)
R01HL-18181-04 Surfactant metabolism-Alveolar cells and lung disease (mice, rabbits)
R01HL-18185-04 Cardiac glycosides and diuretics-Role of Na0 pump (dogs)
R01HL-19012-03 Smooth muscle of resistance vessels in hypertension (rats)
R01HL-19027-03 Calcium and cyclic AMP in causation of hypertension (rats)
R23HL-19605-01 Lipid requirement of the lung mono-oxygenase system (rabbits)
P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
R01HL-19772-02 Role of warfarin metabolism in antivitamin K activity (rats)
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)
R01HL-20577-03 The mechanism of action of vitamin K
** R01HL-21099-02 Subcellular changes of blood vessels in hypertension (rats)
R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
R01HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)
R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)

CELL COMPONENTS, MICROTUBULES (GENERAL)

P01HL-09011-15 0015 A research and resource program in blood - Regulation of synthesis and transport of diverse proteins in liver (rats)
R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
R01HL-13336-09 Biochemistry and physiology of human platelets
R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
** R01HL-13909-27 Physiochemistry and immunology of macromolecules
R01HL-15308-07 Assays for peptides of lipoproteins (human)
P01HL-15835-06 0004 Study of muscles related to heart disease - Actomyosin systems and cell motility (slime molds, human)
P60HL-17269-04 0019 National heart and blood vessel research and demonstration center - Sarcoplasmic reticulum (dog, rabbit, hamster, cat)
P60HL-17269-04 0021 National heart and blood vessel research and demonstration center - Growth and development of heart--Ultrastructure (dog, guinea pig, rat, cat)
P50HL-17646-04 0012 Study of ischemic heart disease - Role of microcirculation in progression of myocardial ischemic injury (rat)
R01HL-18935-03 Platelets, fibrinogen, soluble fibrin interaction (human)
** R01HL-19323-03 Studies of platelet microtubule protein
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
R01HL-20278-02 Cellular mechanisms of renin secretion (rats)
R01HL-20643-02 Analysis of heart cell contraction (rats)
R01HL-20695-02 Stored plateletes (human)
** R01HL-20718-02 Microstructural integrity of stored human platelets
** R01HL-20902-02 Studies on marginal band system of erythrocytes (amphibians, reptiles, fish)
P50HL-21006-02 0003 Specialized center of research in arteriosclerosis - Transport of vitamin A in plasma (human, rat)
R01HL-21970-01 Myofibrillar assembly and breakdown in cardiac muscle (rats)
R01HL-22444-01 Bronchial mucus production in organ culture (human)
** R01HL-22560-02 Structure and motion of cilia (Tetrahymena, mussels)
R01HL-23161-01 0004 Biology of myocardial ischemia - Structure of myofibrils and membranes in early ischemia (dogs, rabbit, rodents)

CELL COMPONENTS, MITOCHONDRIA

R01HL-00082-30 Transmembrane movements (barnacles, frogs, rats)
R01HL-01813-25 Regulation of metabolism by drugs and hormones (rats)
R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
** R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)
P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease Subcellular calcium pools in the genesis of arrhythmias (dogs)
P01HL-06312-17 0033 Surgical cardiology Studies in cryopreservations (rats)
P01HL-06835-17 0062 Cardiovascular disease Role of collagen in atherosclerosis (dogs, pigeons)
P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
** R01HL-09364-14 Ion transport by heart mitochondria (cattle, rat, rabbit)
R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
R01HL-13028-09 Regulation of myocardial fatty acid metabolism (rats)
R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
P01HL-13737-07 0031 Assisted circulation - Myocardial ischemia--Biochemical changes (dogs)
P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
P01HL-14388-07 0153 Regulation of the circulation in pathological states - Subcellular distribution of calcium (rats)
P01HL-14388-07 0175 Regulation of the circulation in pathological states - Functional studies of selected proteins from cardiac muscle
R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)
P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
R01HL-15740-06 In vitro studies on heart cell function (rats)
** P01HL-15835-06 0013 Study of muscles related to heart disease - Cardiac bioenergetics (rats)
P01HL-15835-06 0019 Study of muscles related to heart disease - Vascular smooth muscle--Electron microscopy, excitation contraction (animal)
P01HL-15835-06 0021 Study of muscles related to heart disease - Fast kinetic studies in muscle subcellular organelles (animals)
R01HL-15888-05 Comparative stereology of the myocardium (birds, mammals)
** P01HL-16251-06 0004 Membrane-bound enzymes in heart and other tissues - Biosynthesis and degradation of succinate dehydrogenase, histidyl (yeast, mammal)
R01HL-16706-04 Excitation-contraction coupling and heart failure (dogs, rabbits)
P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
** P60HL-17269-04 0018 National heart and blood vessel research and demonstration center - Mitochondria and energetics (rabbits, dogs)
P60HL-17269-04 0021 National heart and blood vessel research and demonstration center - Growth and development of heart--Ultrastructure (dog, guinea pig, rat, cat)
P50HL-17646-04 0007 Study of ischemic heart disease - Prediction of myocardial ischemic injury by analysis of plasma CPK isoenzymes
P50HL-17648-04 0025 Study of ischemic heart disease - Oestruction and repair of cardiac muscle cell constituents (rat)
P50HL-17648-04 0027 Study of ischemic heart disease - Phospholipid metabolism following cardiac injury and repair (rat)
P50HL-17648-04 0031 Study of ischemic heart disease - Ultrastructural consequences of myocardial ischemia (rat)
P50HL-17667-04 0012 Study of ischemic heart disease - Biochemistry of normal and ischemic heart--Glycolysis (rats)
P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
P50HL-17670-04 0023 Study of ischemic heart disease - Energy metabolism in acute myocardial ischemic injury (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-17682-04 0010 Study of ischemic heart disease - Core clinical enzyme laboratory (human, mice, dogs, rats)
P50HL-17682-04 0018 Study of ischemic heart disease - Biochemistry of ischemia--Heart cell and organ culture (mice, rats, cattle)
R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
P01HL-17813-04 0007 Lung disease and the oxygenation of blood and tissue - Studies on the function of myoglobin (dogs)
** R01HL-18038-03 Structure and function of heart mitochondria (cattle)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18089-04 Fatty acid metabolism in heart and its regulation (swine, rats)
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
** P01HL-18708-03 0003 Oxygen, energy and contractility in cardiac tissue - Structural-functional studies on cytochrome c oxidase
P01HL-18708-03 0005 Oxygen, energy and contractility in cardiac tissue - Cytosolic calcium homeostasis and bioenergetics of cardiac tissue (animals)
** P01HL-18708-03 0009 Oxygen, energy and contractility in cardiac tissue - Regulation of oxygen utilization of cardiac tissue (rats, rabbits)
P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-19012-03 Smooth muscle of resistance vessels in hypertension (rats)
R01HL-19044-03 Effect of drugs on development of cardiac failure (cats)
R01HL-19299-03 Myoglobin and oxygen supply to heart and muscle cells (rats, pigeons)
** R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
** P01HL-19737-02 0006 Cellular and molecular aspects of respiratory physiology - Tissue oxygenation and mitochondrial respiratory activity (sheep)
P01HL-19737-02 0013 Cellular and molecular aspects of respiratory physiology - Cell metabolism analytical facility
R01HL-20177-02 Effects of erythrocyte deformability on tissue perfusion (rats)
R01HL-20308-02 Regulation of myocardial acylcarnitine transport (rats)
R01HL-20394-03 Complement activation by heart subcellular membranes (human, dog)
R01HL-20408-03 Hyperlipidemia in diabetics during muscular training (human)
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
R01HL-20544-02 Integrated regulation of myocardial energy metabolism (rats, guinea pigs)
** P01HL-20592-02 0010 Cell biology of cardiac and skeletal muscle - Mitochondrial genesis during myocardial cell hypertrophy and hyperplasia (rats)
P01HL-20592-02 0011 Cell biology of cardiac and skeletal muscle - Myosin and cytochrome oxidase messenger RNAs (chicken)
R01HL-20610-02 Nerve growth factor and obstructive cardiomyopathy (dogs)
R01HL-20909-02 Clofibrate-enhanced lipid oxidation by peroxisomes (rats)
R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
R01HL-21371-02 Energy loss microanalysis of myocardial cations
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
R01HL-22008-01 Left ventrivular calcium content and contractility (rats)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
R01HL-22174-01 Assembly of membranes in heart and yeast mitochondria
R01HL-22281-01 Microprobe analysis and metabolite levels of ischemic mycardium (dogs)
R01HL-22290-01 Cardiac energy metabolism and protein synthesis (mice)
P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
** P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R01HL-22981-17 Membrane-associated functions in microorganisms (bacteria, protozoa)
R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)
** R01HL-23153-01 Mechanisms of altered CA20 transport in ischemic heart (dog, rabbit)
** R01HL-23161-01 0001 Biology of myocardial ischemia - Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)
R01HL-23161-01 0005 Biology of myocardial ischemia - Localization of complement in myocardial infarction (dog)
** R01HL-23166-01 Pathology of mitochondria in ischemic myocardium (rats, cattle)
R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)

CELL COMPONENTS, MITOCHONDRIAL MEMBRANE

SEE ALSO MEMBRANE SURFACE (BIOLOGICAL) ACTIVITY (GENERAL)
SEE ALSO PROTEINS, MEMBRANE PROTEINS
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
** R01HL-12576-10 Bioenergetics apparatus in heart mitochondria
R01HL-14461-08 Cardiac metabolism in heart failure (rats)
P60HL-17269-04 0018 National heart and blood vessel research and demonstration center - Mitochondria and energetics (rabbits, dogs)
P50HL-17648-04 0031 Study of ischemic heart disease - Ultrastructural consequences of myocardial ischemia (rat)
R01HL-18038-03 Structure and function of heart mitochondria (cattle)
R01HL-18647-03 Ischemic myocardial injury in cultured heart cells (rats)
R01HL-18746-02 Chemical studies on proteolipid apoproteins (cattle)
P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
R01HL-19392-03 Spectroscopic studies of respiratory metalloproteins
R01HL-22050-01 Organization of succinic oxidase in heart
R01HL-23153-01 Mechanisms of altered CA20 transport in ischemic heart (dog, rabbit)
R01HL-23161-01 0001 Biology of myocardial ischemia - Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)

CELL COMPONENTS, NUCLEAR MEMBRANE

SEE ALSO MEMBRANE SURFACE (BIOLOGICAL) ACTIVITY (GENERAL)
SEE ALSO PROTEINS, MEMBRANE PROTEINS
P01HL-09011-15 0019 A research and resource program in blood - The transport mechanism of mRNA (rat, yeast, ascites cells)

CELL COMPONENTS, ORGANELLES

R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
P50HL-14214-07 0020 Newborn lung center for hyaline membrane disease - Epidermal growth factor effect--Lung differentiation, maturation (human, rabbit)
P50HL-14214-07 0021 Newborn lung center for hyaline membrane disease - Development of surfactant system--Surfactant production and release (rat, rabbit)
P50HL-14214-07 0022 Newborn lung center for hyaline membrane disease - Functional integrity of surfactant system--Hyaline membrane disease (lamb, rat)
R01HL-15740-06 In vitro studies on heart cell function (rats)
** P01HL-15835-06 0021 Study of muscles related to heart disease - Fast kinetic studies in muscle subcellular organelles (animals)
R01HL-18032-03 Development of normal and myopathic mammalian heart (hamsters)
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
R01HL-18629-04 Influence of aging and hypertension on the myocardium (rats)
P50HL-19185-02 0001 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sites of synthesis, secretion and structure of surface active material (rat)
** P50HL-19185-02 0002 Pulmonary SCOR--Neonatal respiratory distress syndromes - Biochemistry, ultrastructure--Pulmonary surface active material (human, animal)
R01HL-20394-03 Complement activation by heart subcellular membranes (human, dog)
R01HL-20902-02 Studies on marginal band system of erythrocytes (amphibians, reptiles, fish)
R01HL-22685-01 Drugs and excitation-contraction coupling in heart (animals)

CELL COMPONENTS, PEROXISOMES

P01HL-09011-15 0015 A research and resource program in blood - Regulation of synthesis and transport of diverse proteins in liver (rats)
P60HL-17269-04 0021 National heart and blood vessel research and demonstration center - Growth and development of heart--Ultrastructure (dog, guinea pig, rat, cat)
** R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
R01HL-20909-02 Clofibrate-enhanced lipid oxidation by peroxisomes (rats)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)

CELL COMPONENTS, POLYSOMES

SEE ALSO CELL COMPONENTS, RIBOSOMES
** P01HL-09011-15 0015 A research and resource program in blood - Regulation of synthesis and transport of diverse proteins in liver (rats)
R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)
P50HL-15062-07 0009 Study of lipoproteins, artery wall, and atherosclerosis - Plasma lipoprotein biosynthesis (Rhesus monkeys)
R01HL-16445-05 Regulation of plasma protein biosynthesis (rats, rabbits)
P01HL-22619-01 0007 Cellular mechanisms of heart failure - Regulation of contractile protein levels in heart muscle (rats)

CELL COMPONENTS, RIBOSOMES

SEE ALSO CELL COMPONENTS, POLYSOMES
SEE ALSO NUCLEIC ACIDS, RRNA
P01HL-06314-17 0051 Immunologic mechanisms in cardiovascular disease - Conformational studies of phospholipid membranes and proteins
P01HL-09011-15 0019 A research and resource program in blood - The transport mechanism of mRNA (rat, yeast, ascites cells)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
P01HL-16137-05 0008 Alveolar biology - Macromolecular events in pulmonary cells in toxic environments (animals)
P01HL-17419-04 0006 Studies on mechanisms of hemostasis - Effect of hormones, drugs and other agents on fibrinogen synthesis (chick)
R01HL-20344-02 Regulation of protein turnover in lung tissue (rats)
R01HL-20388-03 Regulation of protein turnover in diabetic heart (rat)
P01HL-22619-01 0007 Cellular mechanisms of heart failure - Regulation of contractile protein levels in heart muscle (rats)
R01HL-22651-01 Control of protein metabolism in heart muscle

CELL COMPONENTS, VACUOLES

** P01HL-06285-18 0213 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gas vacuole membrane (Halobacterium)
P01HL-12157-11 0060 Functions and mechanisms of cell membrane ion transport - Ion transport and electrical properties of giant-celled aiga

CELL CONTACT INHIBITION

SEE CELL GROWTH REGULATION, CONTACT INHIBITION

CELL CONTROL MECHANISMS (CELL GROWTH-PROLIFERATION)

SEE CELL GROWTH REGULATION

CELL COUNTING AND SEPARATION

SEE CELL SORTING

CELL CULTURE

SEE TISSUE (CELL) CULTURE*

CELL CULTURE COLLECTIONS

SEE TISSUE (CELL) CULTURE, CELL CULTURE COLLECTIONS BANKS AND REGISTRIES

CELL CYCLE, TURNOVER (POPULATION STUDIES)

SEE POPULATION STUDIES CELL

CELL CYCLE, TURNOVER (REGULATION OF)

SEE CELL GROWTH REGULATION

CELL DEATH

SEE ALSO CELL DESTRUCTION, CYTOLYSIS
SEE ALSO DISEASES, PATHOLOGIC PROCESSES, NECROSIS
SEE ALSO TOXICOLOGY, CYTOTOXICITY
** P01HL-06370-17 0006 Cardiopulmonary and renal pathology research center - Chemical basis of ultrastructural changes in disease (rats)
P01HL-06664-17 0034 Cardiopulmonary function in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
** P50HL-14214-07 0022 Newborn lung center for hyaline membrane disease - Functional integrity of surfactant system--Hyaline membrane disease (lamb, rat)
** P60HL-17269-04 0018 National heart and blood vessel research and demonstration center - Mitochondria and energetics (rabbits, dogs)
P50HL-17670-04 0023 Study of ischemic heart disease - Energy metabolism in acute myocardial ischemic injury (dogs)
** R01HL-18284-04 Aging erythrocytes--Bio-recognition and elimination (monkeys)
R01HL-19000-03 Irreversible myocardial injury (rats)
R23HL-19584-01 Alveolar macrophage responses to toxic particle exposure (guinea pigs, human)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-20993-02 0008 Population dynamics of arterial cells in atherogenesis - Angiotoxicity of cholesterol oxidation in atherogenesis (rabbits)
** R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
R01HL-22883-01 Lung epithelial cell interactions in vitro
** R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)
R01HL-23153-01 Mechanisms of altered CA20 transport in ischemic heart (dog, rabbit)
R01HL-23588-01 NOV infection-Analysis at the subcellular level (chickens)

CELL DEDIFFERENTIATION

SEE ALSO CELL DIFFERENTIATION
P01HL-18708-03 0008 Oxygen, energy and contractility in cardiac tissue - Cardiac cell culture facility
R01HL-22729-01 Intracellular degradation of newly synthesized collagen (human, chick, rabbit)

CELL DESTRUCTION, AUTOPHAGY

P50HL-17648-04 0025 Study of ischemic heart disease - Destruction and repair of cardiac muscle cell constituents (rat)
R01HL-20695-02 Stored platelets (human)

CELL DESTRUCTION, CYTOLYSIS

R01HL-12760-09 Surface studies of membrane lipids and proteins
R01HL-17567-03 Lipoprotein-cytolytic toxin interaction (Staphylococcus aureus, mammals, human)
P50HL-17667-04 0045 Study of ischemic heart disease - Pathology of myocardial ischemic necrosis (human)
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster

CELL DIFFERENTIATION

SEE ALSO CELL DEDIFFERENTIATION
SEE ALSO GROWTH AND DEVELOPMENT, HISTOGENESIS
R01HL-01803-23 0016 Arteriosclerosis, glomerulonephritis, rheumatic fever - Synthesis of basement membrane collagen by endothelial cells (human)
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06285-18 0209 Cardiovascular-respiratory physiology and biochemistry - Metabolic studies of isolated lung cells (human, animals)
** P01HL-11310-12 0097 Mechanisms of cardiovascular disease - Structural-functional relationships of neuronal differential alloantigens (mice)
P01HL-11310-12 0098 Mechanisms of cardiovascular disease - Protein chemistry of thy-1 and related synaptosomal proteins (mice)
R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)
** P01HL-12157-11 0037 Functions and mechanisms of cell membrane ion transport - Developing structure of heart cells in tissue culture
R01HL-13831-08 Factors regulating embryonic cardiac morphogenesis (chick, salamandra)
P50HL-14214-07 0023 Newborn lung center for hyaline membrane disease - Regulation of fetal lung maturation--Vitamin A (rat, rabbit, sheep, human)
R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)
R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)
P01HL-15835-06 0025 Study of muscles related to heart disease - Cellular biology of vascular smooth muscle (guinea pig)
P60HL-15999-05 0019 Miami comprehensive sickle cell center - Fetal-adult hemoglobin switch (mouse, monkey)
P60HL-16008-06 0019 Wayne State University comprehensive sickle cell center - Cell mediated immunity in sickle cell anemia (human)
P01HL-16137-05 0004 Alveolar biology - Subcellular processes and controls in the surfactant system (animals)
** R01HL-16567-04 Differentiation of the heart-cell membrane (mice, chick)
R01HL-16654-06 Regulation in developing erythroid cells (human)
R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
P60HL-17269-04 0020 National heart and blood vessel research and demonstration center - Nucleic acid and protein metabolism in growth and development of heart (rat)
P50HL-17648-04 0026 Study of ischemic heart disease - Control of muscle cell proliferation (organ culture)
R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
** P50HL-19190-02 0003 Pulmonary SCOR--Pathophysiology, management of IRDS - Type II cells--Regulation and differentiation (rat)
R01HL-19379-03 Characterization of small-granule cells in the lung (mammals)
R01HL-19669-03 Lung organ culture and surfactant biosynthesis (adult and fetal rats)
P01HL-19717-02 0007 Response of the lung to injury Cellular level studies of prostaglandin-like molecules (cattle)
** P01HL-19717-02 0023 Response of the lung to injury Postnatal lung development-Cells, connective tissue and physiology (animals)
** P01HL-19717-02 0025 Response of the lung to injury Role of oxygen in regulation of lung growth and development (rats)
P01HL-19717-02 0026 Response of the lung to injury - Protein depletion and postnatal lung development (rats)
P01HL-19717-02 0028 Response of the lung to injury - Compensatory growth of the lung following pneumonectomy (rabbits)
P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
** R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)
P01HL-20581-01 0002 Vascular neuroeffector mechanisms in health and disease - Trophic interaction between adrenergic nerves and vascular smooth muscle
R01HL-20708-02 Voltage clamp of embryonic heart cell aggregates (rat and chick embryos)
R01HL-20826-02 Megakaryocyte proliferation and its control (mice)
R01HL-20859-02 Beta adrenergic catecholamine receptor
R01HL-20899-02 Cellular mechanisms of hemoglobin F regulation (human)
R01HL-20902-02 Studies on marginal band system of erythrocytes (amphibians, reptiles, fish)
R01HL-20943-02 Comparision of microsphere and RBC behavior in vivo
R23HL-21950-01 Endothelial cell mechanisms in vascular disease (human)
R01HL-22550-02 Genetic cardiomyopathies in salamanders and hamsters
** R01HL-22664-01 Regulation of myocardial cell growth (rats, guinea pigs)
R23HL-22959-01 Heart development in inherited cardiomyopathy (hamsters)
** R01HL-23013-01 Smooth muscle development in vitro (chick embryo)
R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)

CELL DIVISION

SEE ALSO GROWTH ABNORMAL, HYPERPLASIA (GENERAL)
SEE ALSO NUCLEIC ACIDS SYNTHESIS, DNA
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
R01HL-16904-03 Regulation of smooth muscle cells in arteriosclerosis (rabbit aorta)
P01HL-18645-03 0005 Biology of the artery wall and atherosclerosis - Effects of atherosclerosis risk factors on endothelium of the primate
** P01HL-22602-01 0003 Pathophysiology of the endothelium - Mechanisms of endothelial proliferation (human, animals)
R01HL-22883-01 Lung epithelial cell interactions in vitro
** R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)

CELL DIVISION, MITOSIS

SEE ALSO ANTIMITOTIC AGENTS
SEE ALSO MITOGENS
P01HL-06285-18 0179 Cardiovascular-respiratory physiology and biochemistry - Regulation of myocardial cell growth (rats, chick embryo)
P01HL-15835-06 0010 Study of muscles related to heart disease - Muscle structure and reaction to injury (mice, rats)
R01HL-16666-05 Micropinocytosis in isolated capillary endothelium
P50HL-17648-04 0026 Study of ischemic heart disease - Control of muscle cell proliferation (organ culture)
P50HL-18828-03 0009 Specialized center of research in thrombosis - Platelet formation and megakaryocyte cell biology (guinea pig, human)
R01HL-20826-02 Megakaryocyte proliferation and its control (mice)
R01HL-22783-01 Hemodynamic induction of intimal fibromuscular lesion

CELL DIVISION, SYNCHRONOUS CELL DIVISION

P50HL-19190-02 0003 Pulmonary SCOR--Pathophysiology, management of IRDS - Type II cells--Regulation and differentiation (rat)
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)

CELL FLUIDS

SEE ALSO BODY FLUIDS (AND RELATED SUBSTANCES)
R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
P01HL-14388-07 0152 Regulation of the circulation in pathological states - Ion flux alterations in caudal artery in SHR
P01HL-14388-07 0153 Regulation of the circulation in pathological states - Subcellular distribution of calcium (rats)
R01HL-18053-03 Intracellular ionic activities in heart muscle (frogs)
R01HL-19000-03 Irreversible myocardial injury (rats)
P01HL-19242-02 0002 Study of vascular smooth muscle Vascular smooth muscle response to serum lipoproteins (rats)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
R01HL-20711-01 Structure-function relationships in red cell NA K pumps (goats)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-21498-02 Pathophysiology of edema (rats, cats)
R01HL-22261-01 Compliance of fluid spaces in advancing hypertension (rats)

CELL FLUIDS, CELL WATER

SEE ALSO BODY FLUID BALANCE, BODY WATER
N01HB-62962-02 Red cell distributions in cyanate-treated blood (human, sheep)
P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
R01HL-16784-03 Lung tissue and water volume (human, dogs)
** P01HL-16833-04 0006 Hemoglobin and red cell system in hemoglobinopathies - Role of water in function of hemoglobin and myoglobin (human)
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)

CELL FLUIDS, OSMOTIC PRESSURE

SEE ALSO BODY FLUID BALANCE, OSMOTIC PRESSURE
R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
P01HL-06664-17 0010 Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
** P01HL-06664-17 0034 Cardiopulmonary function in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
P01HL-06664-17 0038 Cardiopulmonary function in remediable vascular disease - The dynamics of AOH-stimulated osmotic water flow
P01HL-12157-11 0060 Functions and mechanisms of cell membrane ion transport - Ion transport and electrical properties of giant-celled aiga
P60HL-15999-05 0014 Miami comprehensive sickle cell center - Biochemical and morphological parameters of sickle cells (human)
R01HL-18148-04 Adrenal catecholamine secretion
P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
R01HL-20278-02 Cellular mechanisms of renin secretion (rats)
R01HL-20652-01 Sites of leakage in pulmonary edema (dogs)
P01HL-21016-02 0004 Sickle cell anemia and other hemoglobinopathies - Kinetics of sickling

CELL-FREE SYSTEMS

P01HL-09011-15 0002 A research and resource program in blood - Biosynthesis of fibrinogen (dogs)
R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
R01HL-15965-06 Experimental atherosclerosis and elastin metabolism (chicks)
R01HL-17369-04 Arterial bypass surgery--Structure and metabolism (monkeys)
R01HL-20925-01 The acetylation of fetal hemoglobin (human)
R23HL-21051-02 Adrenergic receptors and the adenylate cyclase system (frog RBC)
R01HL-23588-01 NOV infection--Analysis at the subcellular level (chickens)

CELL FUSION (GENERAL)

P01HL-12157-11 0037 Functions and mechanisms of cell membrane ion transport - Developing structure of heart cells in tissue culture
R01HL-18048-04 Dynamics of artificial and biological membranes (human)
P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
P01HL-19259-03 0003 Digoxin-specific antibody in human therapy - Synthesis of digoxin-specific antibody in continuous cell culture (human, sheep)
R01HL-20300-02 Histone H5 and avian erythropoiesis (chickens, rabbits)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-23593-01 Mast cell granules--Structure and secretion (rats)

CELL GROWTH REGULATION

P01HL-03174-23 0001 Mechanisms of acute vascular reaction to injury - Response of the vascular intima to injury (human, rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)
** P01HL-06285-18 0179 Cardiovascular-respiratory physiology and biochemistry - Regulation of myocardial cell growth (rats, chick embryo)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)
P01HL-11414-11 0037 Thrombosis and atherosclerosis program - Vascular intimal injury and healing (rabbits, rats)
** P50HL-14147-08 0012 Specialized center of research in thrombosis - Tissue culture study of arterial cells (human, hamster)
P50HL-14147-08 0018 Specialized center of research in thrombosis - Biochemical aspects of platelet function in thrombosis and cell growth (human)
P50HL-14212-07 0016 Correlated studies of pulmonary fibrosis - Role of pulmonary alveolar macrophages in fibrosis (human, rabbit)
P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
** P50HL-14230-07 0096 A/S SCOR--Lipids, atherosclerosis and thrombosis - Ultrastructural studies of endothelial cells (human)
P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
** P50HL-15062-07 0012 Study of lipoproteins, artery wall, and atherosclerosis - Lipoprotein stimulation of arterial smooth muscle cell proliferation (mammals)
P01HL-15835-06 0025 Study of muscles related to heart disease - Cellular biology of vascular smooth muscle (guinea pig)
P60HL-17269-04 0020 National heart and blood vessel research and demonstration center - Nucleic acid and protein metabolism in growth and development of heart (rat)
P50HL-17648-04 0026 Study of ischemic heart disease - Control of muscle cell proliferation (organ culture)
R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
R01HL-19132-04 Role of zinc transferrin in lymphocyte transformation (human)
** P50HL-19190-02 0003 Pulmonary SCOR--Pathophysiology, management of IROS - Type II cells--Regulation and differentiation (rat)
** R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)
R01HL-20391-03 Polydisperse LOL--Structure, metabolism and function (human)
** R01HL-20826-02 Megakaryocyte proliferation and its control (mice)
** P50HL-21006-02 0004 Specialized center of research in arteriosclerosis - Regulation of growth of human arterial smooth muscle cells by platelets
R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)
** R23HL-21396-02 Isolation, growth and metabolism of type 1 pneumocytes (rabbits)
** R01HL-22119-01 Biochemistry of platelet function in thrombosis and cell growth (rabbits)
R01HL-22474-01 Cholesterol metabolism and atherosclerosis (rats, human, rabbits)
** R01HL-22729-01 Intracellular degradation of newly synthesized collagen (human, chick, rabbit)
** R01HL-23626-01 A study of the regulation of myocardial hypertrophy (rats)
R01HL-23969-01 Surfactant synthesis by type II cells in vitro (rats)

CELL GROWTH REGULATION, CHALONES

R01HL-20826-02 Megakaryocyte proliferation and its control (mice)

CELL GROWTH REGULATION, CONTACT INHIBITION

R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)

CELL HYBRIDS

P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics
R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)
P60HL-16008-06 0018 Wayne State University comprehensive sickle cell center - Hemoglobin S and RBC membranes--Pathogenesis of irreversibly sickled cells
R01HL-18876-03 Human alpha-1-antitrypsin synthesis in vitro
R01HL-20300-02 Histone H5 and avian erythropoiesis (chickens, rabbits)
P01HL-20948-02 0004 Molecular basis of cholesterol metabolism - Genetic analysis of the LOL pathway (human)
P01HL-21016-02 0003 Sickle cell anemia and other hemoglobinopathies - Role of non-S hemoglobin in gelation and sickling
** P01HL-21016-02 0012 Sickle cell anemia and other hemoglobinopathies - Stimulation of Hb F synthesis in a permanent cell line

CELL HYBRIDS, HETEROKARYON

R01HL-20300-02 Histone H5 and avian erythropoiesis (chickens, rabbits)

CELL INCLUSION BODIES

** P01HL-16137-05 0013 Alveolar biology - Development and pathology of surfactant--Formation of alveolar (rabbits, sheep)
R01HL-16725-03 Physiological regulation of pulmonary surfactant (dogs, rats)
P50HL-19187-02 0003 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Ultrastructure studies (monkey)
** P50HL-19187-02 0004 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Surface active material, lamellar bodies (mice, rats)

CELL INGESTION, PHAGOCYTOSIS

SEE ALSO CELL OESTRUCTION, AUTOPHAGY
SEE ALSO CELLS, PHAGOCYTES
P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel didease--Cell and matrix response (human, mice)
M P01HL-06314-17 Immunologic mechanisms in cardiovascular disease
** P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)
** P01HL-06314-17 0052 Immunologic mechanisms in cardiovascular disease - Role of cyclic nucleotides in neutrophil function (human)
P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
P01HL-06314-17 0062 Immunologic mechanisms in cardiovascular disease - Immunologic renal vascular disease (human, animals)
R01HL-06481-15 Lipid metabolism (human, rats)
R01HL-07652-14 Oestruction of red blood cells in hemolytic anemias (human, guinea pigs)
R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
R01HL-13885-08 0007 Cystic fibrosis and pulmonary disease - Alveolar macrophage defense mechanism (human, rabbits)
R01HL-13885-08 0008 Cystic fibrosis and pulmonary disease - Pseudomonas specific activation of alveolar macrophages (human, rabbits)
** P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
** P50HL-14212-07 0007 Correlated studies of pulmonary fibrosis - Protein metabolism in alveolar macrophages (rabbits, guinea pigs, human)
P50HL-14212-07 0013 Correlated studies of pulmonary fibrosis - Mechanism of beryllium pathogenicity in the lung (human, rabbit, guinea pig)
P50HL-14212-07 0014 Correlated studies of pulmonary fibrosis - Pulmonary lavage cells, secretions in diffuse intersititial lung disease (human)
** P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
P50HL-14212-07 0016 Correlated studies of pulmonary fibrosis - Role of pulmonary alveolar macrophages in fibrosis (human, rabbit)
P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
** P50HL-15061-07 0007 Response of lung to injury - Human factors for phagocytosis in normal and diseased lungs
** P50HL-15061-07 0009 Response of lung to injury - Alveolar macrophages (human, rabbits)
P50HL-15092-07 0006 Immune and fibrotic response to occupational environments - Immunologic studies in silicosis (human, rabbits, hamsters, guinea pigs)
P60HL-15160-07 0014 Center for sickle cell disease - Replacement therapy of opsonin deficiency in sickle cell anemia (children)
P60HL-15169-05 0009 Support for center for sickle cell disease - Infections in sickle cell anemia (human)
P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
P60HL-16005-05 0020 Comprehensive sickle cell center - Studies of the immunologic defect in sickle cell anemia (human)
P01HL-16118-06 0004 Study of emphysema - Metabolic activity of pulmonary connective tissue (human, hamsters)
P01HL-16748-05 0001 Cellular and immunological basis of pulmonary diseases - Mechanisms of alveolar macrophage function and dysfunction (human, rabbits)
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
P01HL-16769-05 0004 Pathobiologic and host defense reactions in the lung - Pathogenesis of Pseudomonas and Serratia pneumonias (rabbits)
P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung - Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
P60HL-17265-04 0009 Community blood resource center support - Research--Oeveloping granulocyte transfusion therapy (human, rabbit)
R01HL-17437-03 'Perfusion lung'--Role of traumatized leukocytes (dogs, human)
R01HL-17596-03 Leukocyte-endothelial interactions (rats)
R01HL-18002-03 Circulatory shock, trauma and RE-system function (rats)
R01HL-18284-04 Aging erythrocytes--Bio-recognition and elimination (monkeys)
R01HL-18731-02 RES stimulating materials in experimental shock (dogs)
P50HL-18828-03 0002 Specialized center of research in thrombosis - Endothelial cell biology (human, guinea pig)
P50HL-19171-02 0007 Pulmonary SCOR--Lung injury by childhood infections - Immunologic studies in models of lower respiratory tract infection (rodents)
P50HL-19171-02 0009 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Scanning electron microscopy, freeze-fracture methods
R01HL-19237-03 Obstructive lung disease and alveolar macrophages (human, animals)
** R01HL-19429-03 Phagocytosis--Ingestion in alveiolar macrophages (rabbits)
R23HL-19584-01 Alveolar macrophage responses to toxic particle exposure (guinea pigs, human)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
R01HL-19685-03 Pathogenesis of inflammation of the lung (guinea pigs)
R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)
R01HL-19760-01 Cellular immune responses of the lung (mice, guinea pigs)
R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
R01HL-20002-03 Pulmonary complications of viral infections (children)
R01HL-20086-02 Circulatory control of splenic function (rats)
R01HL-20125-02 Cyclic nucleotides and alveolar macrophage activation (rabbits)
R01HL-20314-02 Host defense against S pheumoniae in sickle cell disease (human)
R01HL-20352-02 Defenses of lung cells against oxygen toxicity (human, animals)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)
R01HL-20675-02 Alveolar macrophage function in man
P60HL-20985-01 0002 Northern California sickle cell center - Immunization with polyvalent pneumococcal polysaccharide vaccine (human)
P01HL-20993-02 0006 Population dynamics of arterial cells in atherogenesis - Mechanism of regression of atherosclerosis by diet and injury (swine)
R23HL-21089-02 Localization of mediators in dispersed lung cells (guinea pigs, human)
R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
R01HL-21120-02 Membrane dynamics in alveolar macrophages (rabbits)
R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)
** R01HL-21140-01 Studies of pulmonay alveolar macrophage function (rabbits)
R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)
R01HL-22302-01 Immune responses in the human lung (also rabbits, monkeys)
** R01HL-22671-01 Removal of senescent and stored human red cells
R23HL-22823-01 Phagocytic and immune defense mechanisms of the lung (mice)
R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)
R01HL-22996-01 Venom proteases--Action on plasma protease inhibitors (human)

CELL INTERACTION

SEE CELL-CELL INTERACTION

CELL LINES, BANKS AND REGISTRIES

SEE TISSUE (CELL) CULTURE, CELL CULTURE COLLECTIONS BANKS AND REGISTRIES

CELL MEDIATED HYPERSENSITIVITY

SEE HYPERSENSITIVITY, OELAYEO HYPERSENSITIVITY

CELL MEMBRANE

SEE CELL COMPONENTS, CELL MEMBRANE

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

CELL MIGRATION

SEE ALSO NEOPLASTIC GROWTH, NEOPLASMS METASTASIS

** P01HL-03174-23 0001 Mechanisms of acute vascular reaction to injury - Response of the vascular intima to injury (human, rats)
P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury Renal small vessel didease-Coll and matrix response (human, mice)
P01HL-03174-23 0006 Mechanisms of acute vascular reaction to injury Atherosclerotic plaque studies using mosaic analysis (human)
P50HL-14212-07 0016 Correlated studies of pulmonary fibrosis Role of pulmonary alveolar macrophages in fibrosis (human, rabbit)
P01HL-16387-04 0003 The blood vessel and thrombogenesis Blood vessel healing (rabbits)
P01HL-16387-04 0004 The blood vessel and thrombogenesis - Analysis of vascular basement membrane by enzymatic methods (human)
R01HL-17437-03 'Perfusion lung'--Role of traumatized leukocytes (dogs, human)
** R01HL-17596-03 Leukocyte-endothelial interactions (rats)
R01HL-19136-03 Mucopolysaccharide metabolism in cardiac anomalies (rats)
R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
R01HL-20132-03 Histogenesis and biochemistry of embryonic lung (birds)
** R23HL-21950-01 Endothelial cell mechanisms in vascular disease (human)
R01HL-21988-01 Biochemistry of human platelet chemotaxis
** R01HL-22784-01 Ductus arteriosus closure--An arterial lesion model (rabbits)

CELL MOVEMENT

SEE ALSO CELL COMPONENTS, CILIARY MOVEMENT
SEE ALSO CELL MIGRATION

R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
** P01HL-15835-06 0004 Study of muscles related to heart disease - Actomyosin systems and cell motility (slime molds, human)
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
P01HL-18208-04 0002 Center for the study of blood cell rheology - Holography of RBC shape (human)
P01HL-18208-04 0003 Center for the study of blood cell rheology - Bone marrow microcirculation (rats, mice)
** P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
** P01HL-18208-04 0006 Center for the study of blood cell rheology - Analysis of flow in arterioles and capillaries (human)
R01HL-19429-03 Phagocytosis--Ingestion in alveiolar macrophages (rabbits)
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
R23HL-21805-01 Tissue cell interactions with vascular prostheses (human, rats, mice)
R01HL-22455-01 Platelet concentration in the marginal layer (dogs, human)

CELL NUCLEUS

SEE CELL COMPONENTS, CELL NUCLEUS

CELL POPULATION STUDIES

SEE POPULATION STUDIES CELL

CELL SEPARATION AND COUNTING

SEE CELL SORTING

CELL SORTING

SEE ALSO BLOOD CELL DEPLETION THERAPY, LYMPHOCYTE DEPLETION
SEE ALSO BLOOD CELL DEPLETION THERAPY, T LYMPHOCYTE DEPLETION
SEE ALSO BLOOD TREATMENT, LEUKAPHERESIS
SEE ALSO BLOOD TREATMENT, PLASMAPHERESIS

P01HL-06285-18 0209 Cardiovascular-respiratory physiology and biochemistry - Metabolic studies of isolated lung cells (human, animals)
P50HL-14212-07 0014 Correlated studies of pulmonary fibrosis - Pulmonary lavage cells, secretions in diffuse intersititial lung disease (human)
R01HL-16582-05 Artificial lungs (dogs)
R01HL-18725-03 Light-scattering studies of the sickling process (human)
** P01HL-19737-02 0014 Cellular and molecular aspects of respiratory physiology - Cell separation facility
** R01HL-20788-02 Preservation of human platelets for transfusion

CELL STORAGE DISORDERS

SEE METABOLIC DISORDERS INBORN, LYSOSOMAL DISORDERS

CELL SURFACE ACTIVITY (GENERAL)

SEE MEMBRANE SURFACE (BIOLOGICAL) ACTIVITY (GENERAL)

CELL TYPES

SEE ALSO CELL DIFFERENTIATION

** R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yoast, animals)
P01HL-03174-23 0002 Mechanisms of acute vascular reaction to injury Chemical structure, pathological significance of amyloid substance (human, mice)
P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel didoase-Cell and matrix response (human, mice)
P01HL-03174-23 0006 Mechanisms of acute vascular reaction to injury Atherosclerotic plaque studies using mosaic analysis (human)
P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
** P01HL-06285-18 0209 Cardiovascular-respiratory physiology and biochemistry - Metabolic studies of isolated lung cells (human, animals)
P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changes in lymphocytes (human, mice)
P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)
** P01HL-06314-17 0063 Immunologic mechanisms in cardiovascular disease - Glomerular cells in tissue culture (human)
P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
P01HL-12157-11 0055 Functions and mechanisms of cell membrane ion transport - Growth and development of synthetic strand heart cells in culture (chick embryo)
R01HL-14663-07 Pulmonary oxygen toxicity in newborn lung (human, mice)
P01HL-15832-06 0002 Chemical-structural predispositions to lung injury - Connective tissue in lung in development and repair of injury (human, rats, mice)
** P01HL-15832-06 9001 Chemical-structural predispositions to lung injury - Tissue culture studies of lung cell function--Core facility
P01HL-16117-05 0001 Ion movements and membranes in cardiovascular control - Developmental studies of contractile cell junctions (rats, rabbits, elasmobranch)
R01HL-16240-05 The cardiac histamine receptor (rabbits, guinea pigs)
R01HL-16330-06 Aging-tissue injury and repair (rats)
P01HL-16411-04 0005 Blood systems in coagulation and vessel disease - Chemical analysis of serum components associated with coagulation (human, animal)
R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
R01HL-16920-02 Proteases in normal and immunologically injured lung (guinea pigs, rabbits)
P01HL-17430-05 0008 Control of coagulation - Cultures of von Willebrand endothelial cells (pigs)
R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
R01HL-19009-03 Morphometric analysis of the sinoatrial node (ferret)
P50HL-19170-02 0005 Harvard pulmonary SCOR--Chronic diseases of the airways - Pulmonary toxicology of plastics intermediates and pyrolysis products (animal)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
P01HL-19717-02 0002 Response of the lung to injury - Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)
P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
R01HL-19806-03 Chemotactic control of airway phagocytes (human, rabbits)
R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)
R01HL-20344-02 Regulation of protein turnover in lung tissue (rats)
P01HL-20552-02 0010 The development and regression of cardiac hypertrophy - Energy metabolism in the hypertrophied heart animals
R01HL-20566-02 Lactate metabolism in the lung (rats)
R01HL-20878-02 Cellular aspects of lung injury (rats, rabbits)
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
R23HL-21042-01 Cardiopulmonary reflexes and their anatomical basis (dogs)
R01HL-21568-02 Cell biology of the alveolar-capillary unit (animals)
R01HL-21665-01 Collagen polymorphism and arterial structure (monkeys, guinea pigs)
R01HL-22079-01 Heart receptor sites for digitalis and steroid hormones (animals)
R01HL-22266-01 Production of proteases by lung cells in culture (human, rodents, rabbits, sheep)
R01HL-22289-01 Endothelial cell mediated fibrinolysis (rabbits)
R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)
R01HL-22474-01 Cholesterol metabolism and atherosclerosis (rats, human, rabbits)
P01HL-22602-01 0001 Pathophysiology of the endothelium Platelet-endothelial interactions in vitro (human, cattle)
P01HL-22602-01 0003 Pathophysiology of the endothelium Mechanisms of endothelial proliferation (human, animals)
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
R01HL-22783-01 Hemodynamic induction of intimal fibromuscular lesion
R23HL-22839-01 Cellular translation of liposomally delivered mRNA (human, mammals)
R01HL-22924-01 The airway mucosal barrier (guinea pigs)
R01HL-23626-01 A study of the regulation of myocardial hypertrophy (rats)
R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces

CELL VOLUME

** R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
M P01HL-06664-17 Cardiopulmonary function in remediable vascular disease
P01HL-06664-17 0034 Cardiopulmonary function in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
P01HL-06664-17 0036 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
P01HL-06664-17 0037 Cardiopulmonary function in remediable vascular disease - Salt and water balance of cells and tissues (rabbits)
** P01HL-06664-17 0039 Cardiopulmonary function in remediable vascular disease - Transepithelial active transport and cell volume regulation (frogs)
** P01HL-08682-15 0036 Regulation of the cardiovascular system - Electrolyte transport in myocardium with hemorrhagic shock (rats)
R01HL-09364-14 Ion transport by heart mitochondria (cattle, rat, rabbit)
** P01HL-12157-11 0049 Functions and mechanisms of cell membrane ion transport - Ouabain-insensitive cation transport in duck red cells
P01HL-12157-11 0056 Functions and mechanisms of cell membrane ion transport - Isotopic fluxes in synthetic strands of heart cells (chick embryo)
P01HL-12157-11 0060 Functions and mechanisms of cell membrane ion transport - Ion transport and electrical properties of giant-celled aiga
R01HL-13567-06 Ion transport across cell membranes (human)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
P60HL-15162-07 0019 Comprehensive sickle cell center - RBC-Blood rheology in sickle cell anemia and related disorders (human, animal)
R01HL-15888-05 Comparative stereology of the myocardium (birds, mammals)
P60HL-15999-05 0014 Miami comprehensive sickle cell center - Biochemical and morphological parameters of sickle cells (human)
P01HL-16117-05 0001 Ion movements and membranes in cardiovascular control - Developmental studies of contractile cell junctions (rats, rabbits, elasmobranch)
P50HL-17670-04 0023 Study of ischemic heart disease - Energy metabolism in acute myocardial ischemic injury (dogs)
R01HL-18038-03 Structure and function of heart mitochondria (cattle)
R01HL-18256-01 Optical properties of platelets and erythrocytes (rabbits, dogs, human)
R01HL-19000-03 Irreversible myocardial injury (rats)
P01HL-20592-02 0010 Cell biology of cardiac and skeletal muscle - Mitochondrial genesis during myocardial cell hypertrophy and hyperplasia (rats)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-20826-02 Megakaryocyte proliferation and its control (mice)
** R01HL-21179-01 Volume regulation--Role of the membrane potential (amphiuma)
R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
R01HL-21993-01 Hypertensive hypertrophy--Effects of cardiac mechanics (rats)
R01HL-22281-01 Microprobe analysis and metabolite levels of ischemic mycardium (dogs)
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)

CELL WALL

SEE CELL COMPONENTS, CELL WALL

CELL WATER

SEE CELL FLUIDS, CELL WATER

CELLS

SEE ALSO BLOOD AND RE SYSTEM, MAST CELLS
SEE ALSO BLOOD AND RE SYSTEM, MEGAKARYOCYTES
SEE ALSO BLOOD CELLS

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

SEE ALSO BRAIN CELLS
SEE ALSO CONNECTIVE TISSUE CELLS
SEE ALSO CYTOLOGY (GENERAL) SEE ALSO CELL...CYTO...*
SEE ALSO HEART CELLS
SEE ALSO KIDNEY CELLS
SEE ALSO LIVER CELLS
SEE ALSO MUSCLE CELLS
SEE ALSO NEOPLASTIC CELLS
SEE ALSO NERVOUS SYSTEM, NEUROGLIA
SEE ALSO NERVOUS SYSTEM, NEURONS
SEE ALSO PIGMENTATION, CHROMATOPHORES
SEE ALSO TISSUE (CELL) CULTURE, CLONE CELLS*
** P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system

CELLS, PHAGOCYTES
SEE ALSO BLOOD AND RE SYSTEM, MACROPHAGES
SEE ALSO BLOOD CELLS, LEUKOCYTES
SEE ALSO CELL INGESTION, PHAGOCYTOSIS
R01HL-19684-03 Histotypic lung cultureincircumfusion systems (mice)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
** R01HL-19806-03 Chemotactic control of airway phagocytes (human, rabbits)

CELLS, SINGLE CELL ANALYSIS
P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
P01HL-11351-12 0005 Cellular and molecular mechanisms of myocardial function - Electrophysiology of cardiac muscle (rats)
R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)
P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
P01HL-18708-03 0005 Oxygen, energy and contractility in cardiac tissue - Cytosolic calcium homeostasis and bioenergetics of cardiac tissue (animals)
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
R01HL-19299-03 Myoglobin and oxygen supply to heart and muscle cells (rats, pigeons)
R01HL-19848-02 Contractile activation by rapid temperature jumps (frogs)
** R23HL-21396-02 Isolation, growth and metabolism of type 1 pneumocytes (rabbits)
R01HL-22418-01 Neural control of cardio-respiratory function (cats)
R01HL-23588-01 NOV infection--Analysis at the subcellular level (chickens)
R01HL-23614-02 Pharmacology of relaxation in smooth muscle (mollusks)

CELLS (ORGANISMS), EUKARYOTIC (SEE ALSO SPECIFICS)
** P01HL-09011-15 0009 A research and resource program in blood - Control of RNA synthesis in nucleated cells (yeast, ascites cell)
R23HL-22839-01 Cellular translation of liposomally-delivered mRNA (human, mammals)

CELLULAR ANALOG OF HUMORAL SENSITIZING ANTIBODIES
SEE HYPERSENSITIVITY, SENSITIZING ANTIBODIES NON-HUMORAL

CELLULAR ANTIBODIES NON-HUMORAL
SEE HYPERSENSITIVITY, SENSITIZING ANTIBODIES NON-HUMORAL

CELLULAR IMMUNITY
SEE IMMUNITY, CELLULAR IMMUNITY (GENERAL)

CENTERS
SEE BIOMEDICAL ENGINEERING, INSTRUMENTATION CENTERS
SEE BLOOD PRESERVATION, BLOOD BANKS, CENTERS-RESOURCES-REGISTRIES
SEE CLINICAL RESEARCH CENTERS
SEE COMPUTER CENTERS
SEE INFORMATION SYSTEMS (INCL BANKS AND CENTERS)
SEE STATISTICAL SERVICE AND CENTERS

CENTRAL NERVOUS SYSTEM
SEE NERVOUS SYSTEM CENTRAL

CENTRAL NERVOUS SYSTEM DISORDERS
SEE NERVOUS DISORDERS CENTRAL (GENERAL)

CENTRAL SPACES, BRAIN
SEE BRAIN, CENTRAL SPACES

CENTRALLY ACTING DRUGS
SEE NEUROPHARMACOLOGICAL AGENTS, CENTRALLY ACTING DRUGS (GENERAL)

CENTRIFUGATION
SEE PHYSICAL SEPARATION, CENTRIFUGATION*

CERAMIDE
SEE SPHINGOLIPIDS, CERAMIDE

CERAMIDE DIHEXOSIDES
SEE GLYCOSPHINGOLIPIDS, CERAMIDE DIHEXOSIDES

CERAMIDE TRIHEXOSIDES
SEE GLYCOSPHINGOLIPIDS, CERAMIDE TRIHEXOSIDES

CERAMIDES
SEE SPHINGOLIPIDS, CERAMIDE

CERCOCEBUS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS (CATARRHINES)*

CERCOPITHECUS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS (CATARRHINES)*

CEREBELLAR DISORDERS
SEE BRAIN DISORDERS, CEREBELLAR DISORDERS

CEREBELLAR NUCLEI
SEE BRAIN, CEREBELLAR NUCLEI

CEREBELLECTOMY
SEE BRAIN LESIONS SURGICAL, CEREBELLECTOMY

CEREBELLUM
SEE BRAIN, CEREBELLUM

CEREBRAL ANEURYSM
SEE CEREBROVASCULAR DISORDERS, CEREBRAL ANEURYSM

CEREBRAL ARTERIES
SEE CEREBROVASCULAR SYSTEM, CEREBRAL ARTERIES

CEREBRAL CIRCULATION DYNAMICS
SEE CEREBROVASCULAR SYSTEM, CEREBRAL CIRCULATION

CEREBRAL CORTEX
SEE BRAIN, CEREBRAL CORTEX

CEREBRAL DEATH
SEE DEATH, CEREBRAL

CEREBRAL DOMINANCE
SEE BRAIN INTERHEMISPHERIC ACTIVITY, CEREBRAL DOMINANCE

CEREBRAL HEMORRHAGE
SEE CEREBROVASCULAR DISORDERS, CEREBRAL HEMORRHAGE

CEREBRAL HYPOXIA
SEE CEREBROVASCULAR DISORDERS, BRAIN ISCHEMIA AND HYPOXIA

CEREBRAL SCLEROSIS DISSEMINATED
SEE NERVOUS DISORDERS, MYELINOPATHIES, MULTIPLE SCLEROSIS

CEREBRAL VENTRICLES
SEE BRAIN, CENTRAL SPACES, CEREBRAL VENTRICLES

CEREBROANGIOGRAPHY
SEE CEREBROVASCULAR VISUALIZATION, CEREBROANGIOGRAPHY*

CEREBROARTERIAL OCCLUSIONS AND THROMBOSIS
SEE CEREBROVASCULAR DISORDERS, CEREBRAL OCCLUSIONS AND THROMBOSIS

CEREBROARTERIAL OCCLUSIONS EXTRACRANIAL
SEE CEREBROVASCULAR DISORDERS, CEREBROARTERIAL OCCLUSIONS EXTRACRANIAL

CEREBROCUPREIN
SEE METALLOPROTEINS, CYTOCUPREINS

CEREBRO-HEPATO-RENAL SYNDROME (ZELLWEGER SYNDROME)
SEE METABOLIC DISORDERS INBORN, CEREBRO-HEPATO-RENAL SYNDROME

CEREBROSIDE TRIHEXOSIDES (AMINOGLYCOLIPID)
SEE GLYCOSPHINGOLIPIDS, CERAMIDE TRIHEXOSIDES

CEREBROSPINAL FLUID
SEE NERVOUS SYSTEM CENTRAL, CEREBROSPINAL FLUID

CEREBROSPINAL FLUID FLOW
SEE NERVOUS SYSTEM CENTRAL, CEREBROSPINAL FLUID FLOW

CEREBROSPINAL FLUID PRESSURE
SEE NERVOUS SYSTEM CENTRAL, CEREBROSPINAL FLUID PRESSURE

CEREBROTENDINOUS XANTHOMATOSIS
SEE LIPOGRANULOMATOSES, CEREBROTENDINOUS XANTHOMATOSIS

CEREBROVASCULAR ACCIDENTS
SEE CEREBROVASCULAR DISORDERS, STROKE

CEREBROVASCULAR DISORDERS
SEE ALSO EYE CIRCULATORY DISORDERS
R01HL-01979-22 Arteriosclerosis in zoo animals on controlled diets (animals)
** P01HL-07896-15 0019 Environmental biomedical research program - Hyperoxic myopia (human)
** P01HL-07896-15 0055 Environmental biomedical research program - Cerebral blood flow by Xenon-133 inhalation (human)
** P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
** R01HL-18590-03 Cerebral blood flow after cardiac arrest (dogs, monkeys)
P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
** R01HL-20500-02 Diabetic human brain microvascular basement membrane (human)
** R13HL-20765-01 Eleventh Princeton Conference on Cerebrovascular Disease (new Jersey)
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
R01HL-21260-02 Risk factor relationships of atherosclerosis (monkeys)
N01HV-53029-04 Nonhuman primate models of atherosclerosis
N01HV-53030-05 Nonhuman primate models of atherosclerosis and hypertension
N01HV-53031-04 Nonhuman primate models of atherosclerosis and hypertension
N01HV-62905-02 Non-human primate models of arteriosclerosis
N01HV-72978-02 Development of models of hypertension
N01HV-72980-02 Development of models of hypertension

CEREBROVASCULAR DISORDERS, BRAIN ISCHEMIA AND HYPOXIA
SEE ALSO CEREBROVASCULAR DISORDERS, CEREBRAL OCCLUSIONS AND THROMBOSIS
SEE ALSO CEREBROVASCULAR DISORDERS, CEREBROARTERIAL OCCLUSIONS EXTRACRANIAL
SEE ALSO NEUROLOGIC MANIFESTATIONS, SYNCOPE
R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
P01HL-06285-18 0147 Cardiovascular-respiratory physiology and biochemistry - Metabolic regulation of cerebral microcirculation (cats)
** P01HL-07896-15 0052 Environmental biomedical research program - Effects of hypoxia on cerebral function
** P01HL-08899-14 0008 Tolerance to respiratory gases in health and disease - Hypoxia in regards to respiratory and brain circulatory control (goats)
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
** R01HL-16022-05 Determinants of the ventilatory response to hypoxia (goats, cats)
P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)
P50HL-19187-02 0011 Pediatric pulmonary SCOR--Hyaline membrane disease - Effects of hypoxia and hypercapnia on developing nervous system (monkey, human)
** P50HL-19190-02 0007 Pulmonary SCOR--Pathophysiology, management of IRDS - Asphyxia--Cerebral metabolism (dog, rat)
R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)
** R01HL-20143-02 Hypothermic circulatory arrest--Cerebral vascular change (dogs)
R01HL-20177-02 Effects of erythrocyte deformability on tissue perfusion (rats)
** R01HL-22149-01 Morphologic examination of brain parenchymal vessels (cats)

CEREBROVASCULAR DISORDERS, CEREBRAL ANEURYSM
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)

CEREBROVASCULAR DISORDERS, CEREBRAL HEMORRHAGE
SEE ALSO CEREBROVASCULAR DISORDERS, MENINGEAL HEMORRHAGES
** R01HL-22149-01 Morphologic examination of brain parenchymal vessels (cats)
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)

CEREBROVASCULAR DISORDERS, CEREBRAL OCCLUSIONS AND THROMBOSIS
P01HL-06285-18 0164 Cardiovascular-respiratory physiology and biochemistry - CPK MB isoenzyme concentration to quantify infarct size (human, animals)
P50HL-17669-04 0001 Ischemic heart disease center (SCOR) - Radioimmunoassays for CPK isoenzyme and myoglobin (human, dog)
R01HL-19038-02 Plethysmographic evaluation of carotid blood flow (human, rabbits, dogs)
R01HL-20898-02 Ultrasonic evaluation in direct arterial surgery (models, cattle, human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)

CEREBROVASCULAR DISORDERS, CEREBRARTERIAL OCCLUSIONS EXTRACRANIAL

R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
** R01HL-19038-02 Plethysmographic evaluation of carotid blood flow (human, rabbits, dogs)
R01HL-20381-03 Long-term study of diabetic vascular disease (human)
R01HL-20898-02 Ultrasonic evaluation in direct arterial surgery (models, cattle, human)

CEREBROVASCULAR DISORDERS, MENINGEAL HEMORRHAGES

R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)

CEREBROVASCULAR DISORDERS, STROKE

SEE ALSO CEREBROVASCULAR DISORDERS, CEREBRAL HEMORRHAGE
SEE ALSO CEREBROVASCULAR DISORDERS, CEREBRAL OCCLUSIONS AND THROMBOSIS
SEE ALSO CEREBROVASCULAR DISORDERS, CEREBRARTERIAL OCCLUSIONS EXTRACRANIAL
SEE ALSO CEREBROVASCULAR DISORDERS, MENINGEAL HEMORRHAGES
R01HL-03341-22 Epidemiology of atherosclerosis in Evans Co Georgia
R01HL-04697-1, International heart disease epidemiology (human)
P01HL-06285-18 0147 Cardiovascular-respiratory physiology and biochemistry - Metabolic regulation of cerebral microcirculation (cats)
** P01HL-07293-17 0054 Non-invasive cardiovascular measurements - Detection of arterial occlusive disease (human)
P01HL-07293-17 0058 Non-invasive cardiovascular measurements - Peripheral duplex scanner physiologic evaluation
** P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
P50HL-14230-07 0088 A/S SCDR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
P50HL-14230-07 0097 A/S SCDR--Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)
** R01HL-15808-06 Role of angiotensinogen in hypertension and stroke (human, rabbits)
** R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)
R01HL-19341-03 Ultrasonic detection of the atherosclerotic plaque
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R01HL-20898-02 Ultrasonic evaluation in direct arterial surgery (models, cattle, human)
** R01HL-21088-02 Genetic patterns in deaths from MI and stroke in Utah
** R01HL-21239-02 Isolation and mechanism of action of thromboxane A2 (human, rabbits)
R01HL-21843-01 Ischemia, diabetes and the microcirculation (rats, cats, hamsters)
R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease
N01HV-62955-04 Data collection in clinical pathology and morbid anatomy (men)
N01HV-72984-03 High blood pressure control program (human)
N01HV-72986-02 High blood pressure control program (human)
N01HV-72987-02 High blood pressure control program (human)
N01HV-72989-02 High blood pressure control program (human)
N01HV-72990-00 High blood pressure control program (human)

CEREBROVASCULAR DISORDERS, TEMPORAL ARTERITIS

SEE ALSO EYE CIRCULATORY DISORDERS
R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)

CEREBROVASCULAR DISORDERS DIAGNOSIS (INCL EXAMS)*

SEE ALSO CEREBROVASCULAR VISUALIZATION*
P01HL-07293-17 0054 Non-invasive cardiovascular measurements - Detection of arterial occlusive disease (human)
R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)
** P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
R01HL-19053-03 Vascular anatomy of the telencephalon (human)
R01HL-19341-03 Ultrasonic detection of the atherosclerotic plaque

CEREBROVASCULAR EXAMINATIONS

SEE CEREBROVASCULAR DISORDERS DIAGNOSIS (INCL EXAMS)*

CEREBROVASCULAR SURGERY

SEE ALSO NEUROSURGERY
** R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)

CEREBROVASCULAR SYSTEM

SEE ALSO EYE CIRCULATION
P01HL-08899-14 0008 Tolerance to respiratory gases in health and disease - Hypoxia in regards to respiratory and brain circulatory control (goats)
** P01HL-08899-14 0013 Tolerance to respiratory gases in health and disease - Oxygen and carbon dioxide effects upon human brain metabolism
P01HL-08899-14 0019 Tolerance to respiratory gases in health and disease - High oxygen pressure upon carotid chemoreceptor (cats)
** P01HL-08899-14 0040 Tolerance to respiratory gases in health and disease - Metabolic gas influence on brain vascular tissue (animals)
R01HL-16643-02 Fluorocarbon emulsions as artificial blood (animals)
R01HL-18657-03 Pharmacologic studies on neurogenic digitalis effects (human, cats, dogs)
** R01HL-22106-02 Diabetic cerebral vascular structure and function

CEREBROVASCULAR SYSTEM, BLOOD-BRAIN BARRIER

R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
** P01HL-08899-14 0026 Tolerance to respiratory gases in health and disease - Effects of oxygen on central nervous system functions (rats, rabbits)
P01HL-08899-14 0043 Tolerance to respiratory gases in health and disease - Oxygen effects upon CNS and sensory functions (human)
P01HL-08899-14 0054 Tolerance to respiratory gases in health and disease - Glucose transport across choroid plexus (dogs)
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
R01HL-15808-06 Role of angiotensinogen in hypertension and stroke (human, rabbits)
R01HL-18351-03 Brain metabolism, acid-base balance, and respiration
R01HL-21799-01 Circumventricular sites of pressor action of angiotensin II (rats)
R01HL-21851-01 Cerebral microcirculation in experimental hypertension (cats, rabbits)
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)

CEREBROVASCULAR SYSTEM, BLOOD-CEREBROSPINAL FLUID BARRIER

P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
** P01HL-10342-13 0023 The integrated function of respiration and circulation - Carbon dioxide transport and CSF acid base balance (hogs, pigs)
P01HL-19737-02 0005 Cellular and molecular aspects of respiratory physiology - Interaction of respiratory exchanges and blood gas parameters (human, animals)

CEREBROVASCULAR SYSTEM, BRAIN CIRCULATION

SEE ALSO CEREBROVASCULAR SYSTEM, CEREBRAL CIRCULATION
SEE ALSO EYE CIRCULATION
N01HI-02216-10 To develop biological flow NMR concept (human, mammals non human)
R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
** P01HL-06285-18 0147 Cardiovascular-respiratory physiology and biochemistry - Metabolic regulation of cerebral microcirculation (cats)
** R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
** P01HL-07896-15 0054 Environmental biomedical research program - Myocardial effects of hemorrhagic shock (dogs)
** P01HL-07896-15 0055 Environmental biomedical research program - Cerebral blood flow by Xenon-133 inhalation (human)
** P01HL-08899-14 0012 Tolerance to respiratory gases in health and disease - High oxygen for normal brain metabolism and circulation in man
P01HL-08899-14 0024 Tolerance to respiratory gases in health and disease - Effects of oxygen pressures on physiological control systems (human, dogs)
P01HL-08899-14 0034 Tolerance to respiratory gases in health and disease - Hyperoxygenation and respiratory response to acid-base stimuli (human, dog)
** P01HL-08899-14 0038 Tolerance to respiratory gases in health and disease Brain vessels change in alveolar arterial gas tensions (human, monkeys)
** P01HL-08899-14 0039 Tolerance to respiratory gases in health and disease Dose response studies of oxygen on CO2 reactivity in brain vessels (human)
P01HL-08899-14 0041 Tolerance to respiratory gases in health and disease Blood gas transport and brain circulatory control (human)
** P01HL-10342-13 0019 The integrated function of respiration and circulation Cerebral circulation and metabolism (dogs)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
R01HL-14529-07 baroreflex (dogs)
R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
R01HL-16022-05 Determinants of the ventilatory response to hypoxia (goats, cats)
** R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
** R01HL-16643-02 Fluorocarbon emulsions as artificial blood (animals)
R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)
** R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)
** P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)
P01HL-19737-02 0007 Cellular and molecular aspects of respiratory physiology - Average oxygen tension of tissue using radioisotopes (dogs)
** R01HL-20177-02 Effects of erythrocyte deformability on tissue perfusion (rats)
R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
** R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood flow in hypertension (rats)
R13HL-20765-01 Eleventh Princeton Conference on Cerebrovascular Disease (new Jersey)
** R01HL-21851-01 Cerebral microcirculation in experimental hypertension (cats, rabbits)
** R01HL-22149-01 Morphologic examination of brain parenchymal vessels (cats)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)

CEREBROVASCULAR SYSTEM, CAROTID ARTERIES

R01HL-01803-23 0015 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic endothelial injury and lipid diet atherosclerosis (rabbits, monkey)
P01HL-07293-17 0058 Non-invasive cardiovascular measurements - Peripheral duplex scanner physiologic evaluation
P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
** P01HL-14388-07 0155 Regulation of the circulation in pathological states - Cardiopulmonary afferent activity, carotid chemo-baroreceptor reflexes
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0204 Regulation of the circulation in pathological states - Reflex control of vascular resistance in spontaneously hypertensive rats
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
R01HL-16003-08 Sources and roles of calcium in smooth muscle excitation (rats)
R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
P50HL-17655-04 0003 Study of ischemic heart disease - Cardiopulmonary resuscitation (human, dog)
R01HL-19038-02 Plethysmographic evaluation of carotid blood flow (human, rabbits, dogs)
R01HL-20196-02 Regulation of coronary arterial smooth muscle
R01HL-20898-02 Ultrasonic evaluation in direct arterial surgery (models, cattle, human)
R01HL-21859-01 Unsteady flow in arterial bifurcations (human)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)
N01HV-42961-06 Evaluation of biomaterials in contact with blood (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

N01HV-72928-04 Develop high resolution ultrasonic imaging techniques
N01HV-72930-02 Atherosclerosis assessment--Angiography and ultrasound (dogs, human)

CEREBROVASCULAR SYSTEM, CAROTID SINUS

R01HL-05883-18 0004 Reflex control of resistance and capacitance vessels - Left ventricular receptors with nonmedullated vagal afferents (cats)
R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
P01HL-08682-15 0038 Regulation of the cardiovascular system - Control of pulmonary circulation (dogs)
P01HL-08805-15 0046 Regulation of ventilation and pulmonary circulation - Sites and modes of interaction of peripheral and central chemoreceptors
R01HL-10951-11 Neural control of the heart (dogs, rats)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
P01HL-13108-09 0021 Clinical heart transplantation - Autonomic reflex regulation of ventricular function (human)
P01HL-13737-07 0009 Assisted circulation - Analytical models
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
P01HL-14388-07 0209 Regulation of the circulation in pathological states - Neural regulation of vascular resistance in human hypertension
R01HL-14529-07 Systems analysis of baroreflex (dogs)
R01HL-15758-06 Catecholamine release in the heart (dogs)
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
P01HL-16910-05 0002 Regulation of the peripheral circulation - Coronary circulation (dogs)
P01HL-16910-05 0005 Regulation of the peripheral circulation - Control of circulation by baroreceptor and chemoreceptor reflexes (dog, monkey)
R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
R01HL-19256-03 Arterial baroreceptors in cardiovascular control (dogs)
R01HL-19467-03 Regulation of blood pressure (rats, dogs)
R01HL-19677-03 Venous structure and function (dogs)
R01HL-21071-02 Mechanisms of hypertension in coarctation of the aorta (dog)
R01HL-22546-02 Baroreceptor reflex mechanisms in man
** R01HL-22667-01 Mechanisms of baroreceptor adaptation in hypertension (dogs)
R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))

CEREBROVASCULAR SYSTEM, CEREBRAL ARTERIES

R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)
** R01HL-15805-06 Cerebral arterial tone and reactivity (rabbits)
R01HL-19038-02 Plethysmographic evaluation of carotid blood flow (human, rabbits, dogs)
R01HL-19053-03 Vascular anatomy of the telencephalon (human)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)

CEREBROVASCULAR SYSTEM, CEREBRAL CIRCULATION

** P01HL-06285-18 0147 Cardiovascular-respiratory physiology and biochemistry - Metabolic regulation of cerebral microcirculation (cats)
R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)
** R01HL-12775-08 Cerebral microcirculation (mice)
** P50HL-14230-07 0099 A/S SCOR--Lipids, atherosclerosis and thrombosis - Morphological, cytochemical study of normal and altered vasculature (mice)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
R01HL-15805-06 Cerebral arterial tone and reactivity (rabbits)
** R01HL-18590-03 Cerebral blood flow after cardiac arrest (dogs, monkeys)
** R01HL-19053-03 Vascular anatomy of the telencephalon (human)
** P50HL-19190-02 0006 Pulmonary SCOR--Pathophysiology, management of IROS - Asphyxia--Respiratory control (dogs)
P50HL-19190-02 0007 Pulmonary SCOR--Pathophysiology, management of IROS - Asphyxia--Cerebral metabolism (dog, rat)
R01HL-20143-02 Hypothermic circulatory arrest--Cerebral vascular change (dogs)
** P01HL-20581-01 0003 Vascular neuroeffector mechanisms in health and disease - Cerebrovascular neuroeffector characteristics (animals)
** R01HL-20761-02 Study of cerebral blood flow with stable xenon and computerized tomography
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)

CEREBROVASCULAR SYSTEM, VENOUS SINUSES INTRACRANIAL

R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)

CEREBROVASCULAR VISUALIZATION*

** R01HL-19053-03 Vascular anatomy of the telencephalon (human)

CEREBROVASCULAR VISUALIZATION, CEREBROANGIOGRAPHY*

** R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)

CEREBRUM

SEE BRAIN, CEREBRUM

CEROID

SEE LIPOFUSCIN-CEROID

CERUBIDINE

SEE ANTIBIOTICS, DAUNOMYCIN

CERULOPLASMIN

SEE METALLOPROTEINS, CERULOPLASMIN

CESIUM

SEE METALS, ALKALI METALS, CESIUM

CESTODE ANTIGENS

SEE IMMUNOLOGY, ANTIGENS HELMINTHIC

CFM MODEL

SEE BIOLOGICAL TRANSPORT, MEMBRANE MODELS

CHAIN LENGTH (CHEMISTRY)

SEE CHEMICAL STRUCTURE, CHAIN LENGTH

CHALONES

SEE CELL GROWTH REGULATION, CHALONES

CHEDIAK-HIGASHI SYNDROME

SEE METABOLIC DISORDERS INBORN, CHEDIAK-HIGASHI SYNDROME

CHELATES, METAL

SEE METAL COMPLEXES

CHELATING AGENTS

SEE METAL COMPLEXES, LIGANDS, CHELATING AGENTS

CHELATION

SEE METAL COMPLEXES, LIGANDS, CHELATING AGENTS

CHELATION THERAPY

SEE IRON CHELATION THERAPY

CHEMICAL AGGREGATES

SEE ALSO MOLECULAR CONDENSATIONS
R01HL-07451-16 Hemoglobin S gelation and hemoglobin allostery (human)
** P60HL-16005-05 0015 Comprehensive sickle cell center - Molecular basis for the sickling phenomenon
R01HL-16601-05 Structure and function of blood proteins (human, cattle)
P60HL-17265-04 0002 Community blood resource center support - Research--Human factor VIII
R01HL-18625-03 Organization of arterial ground substance (cattle)
R01HL-20350-02 Crystal structure of lipids--Cholesterol
P01HL-21016-02 0002 Sickle cell anemia and other hemoglobinopathies - Molecular events proceeding gelation of Hb S
R01HL-21626-01 Proteoglycans of animal lung parenchyma (cattle, pigs, rabbits)
R01HL-21649-01 Biochemistry of lung proteoglycans (mammals)
** R01HL-22654-01 Molecular structure of sickle cell fibers (human)
R01HL-22682-01 Structure and function of high density lipoprotein (human, rat)

CHEMICAL AGGREGATES, MICELLE FORMATION

SEE ALSO PHYSICAL PROPERTIES, COLLOIDS, COLLOIDAL STATE
SEE ALSO PHYSICAL PROPERTIES, SOLUTIONS ASSOCIATION
P01HL-08214-15 0041 Chemical and biological properties of lipids - Physico-chemical regulation of enzymes in lipid metabolism
R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
R01HL-18636-02 Fatty acids and cholesterol transport (rats)
R01HL-22570-01 Interactions of sterols in biological systems (human)

CHEMICAL AND DRUG INFORMATION SYSTEMS

R01HL-07878-16 Metabolism of neutral sterols (rats, rabbits)

CHEMICAL AND DRUG REGISTRIES, REFERRAL CENTERS AND RESOURCES

R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-17726-03 Bacterial heparinase in diagnostic coagulation studies
P01HL-17813-04 0008 Lung disease and the oxygenation of blood and tissue - Pulmonary regulation of systemic blood pressure (human, rabbits, rats)

CHEMICAL ASSOCIATED CARCINOGENS

SEE NEOPLASTIC TRANSFORMATION, CARCINOGENESIS, CHEMICAL

CHEMICAL BOND FREQUENCIES

SEE CHEMICAL BONDS, VIBRATIONS

CHEMICAL BONDS

SEE ALSO CARBOHYDRATES, PROTEIN BOUND CARBOHYDRATES
SEE ALSO CHEMICAL REACTION SITES
SEE ALSO CHEMICAL STRUCTURE, STEREOCHEMISTRY, CONFORMATIONS
SEE ALSO DRUGS RECEPTORS
SEE ALSO ELECTRONIC SPECTRA, MOLECULAR ORBITALS
SEE ALSO GLOBULINS, CORTICOSTEROID BINDING GLOBULIN
SEE ALSO HALOPROTEINS, PROTEIN BOUND IODINE
SEE ALSO MOLECULAR INTERACTIONS NONBONDING
R01HL-13157-09 Molecular oxygen carriers--Synthesis, structure, bonding
R01HL-15640-06 Thermodynamic studies on model oxygen carriers
R01HL-16087-05 Structural and dynamic study of model heme complexes (yeast)
R01HL-18746-02 Chemical studies on proteolipid apoproteins (cattle)
R01HL-18764-03 Biosorbable thromboresistant surfaces (dogs, rats, swine, human)
R01HL-21194-02 Development of antithrombogenic plastic biomaterials
R01HL-21498-02 Pathophysiology of edema (rats, cats)
M P01HL-22163-01 Surface thrombogenesis--Mechanisms and prevention
** P01HL-22163-01 9001 Surface thrombogenesis--Mechanisms and prevention - Polymers for studing blood-material interactions core

CHEMICAL BONDS, BINDING

SEE ALSO MOLECULAR CONDENSATIONS
SEE ALSO PROTEIN BINDING
R01HL-01974-24 Ion-pump in the erythrocyte (rabbits, guinea pigs)
P01HL-03174-23 0009 Mechanisms of acute vascular reaction to injury - Mast cell lipid interaction (human, rats)
P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury - Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)
R01HL-05360-19 Cholesterol biosynthesis and its control in liver (rats)
R01HL-05791-18 Structure and function in hemoglobins (human)
P01HL-06285-18 0207 Cardiovascular-respiratory physiology and biochemistry - Feedback control of cholesterol synthesis in non-hepatic tissues (animals)
P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology
P01HL-06664-17 0039 Cardiopulmonary function in remediable vascular disease - Transepithelial active transport and cell volume regulation (frogs)
P01HL-06835-17 0033 Cardiovascular disease - Structure-activity relationship of angiotensin II analogs (rats)
P01HL-09011-15 0013 A research and resource program in blood - A quantitative study of immunological enhancement (mice)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
R01HL-13581-11 Reactions of oxygen with heme proteins
R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
P50HL-14147-08 0014 Specialized center of research in thrombosis - Theoretical models for electrostatic effects in blood clot formation
R01HL-14775-08 Mechanisms of drug action in vascular smooth muscle (dog, rabbits)
R01HL-14990-07 Lipid transport in avian species (chickens)
P50HL-15061-07 0009 Response of lung to injury - Alveolar macrophages (human, rabbits)
P01HL-15194-07 0006 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Velocity of Bohr effect in erythrocytes (human)
R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-15835-06 0018 Study of muscles related to heart disease Pharmacology of excitation coupling in muscle (frog, barnacles)
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
R01HL-16052-05 Cardiac glycosides Mechanism of inotropic action (dogs)
R01HL-16059-06 Structure and function of serum lipoproteins (cattle, human)
R01HL-16101-05 Protein-lipid interaction (bacteria, models)
P01HL-16117-05 0003 Ion movements and membranes in cardiovascular control Fast kinetic study of calcium membrane interactions
P01HL-16117-05 0005 Ion movements and membranes in cardiovascular control Properties of isolated cell membranes (rabbits, cats)
P01HL-16251-06 0002 Membrane-bound enzymes in heart and other tissues Structural basis of regulation of cardiac succinate dehydrogenase
R01HL-16355-05 Reactions of thrombin and collagen with platelets (human)
P01HL-16411-04 0002 Blood systems in coagulation and vessel disease - Early stages of coagulation and cardiovascular disease (human, rabbits)
P01HL-16411-04 0005 Blood systems in coagulation and vessel disease - Chemical analysis of serum components associated with coagulation (human, animal)
R01HL-16474-05 Antibiotic-ion interactions (model membranes)
R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)
** P01HL-16683-04 0001 Function and growth of cardiac and skeletal muscle - Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)
P01HL-16683-04 0006 Function and growth of cardiac and skeletal muscle - Chemical studies of the contractile system--Development of new reagents
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
** P01HL-16833-04 0003 Hemoglobin and red cell system in hemoglobinopathies - Oxygen binding curves and equilibria (human)
P01HL-17430-05 0005 Control of coagulation - The activation of prothrombin (human, cattle, dogs)
R01HL-17844-04 Artificial blood substitutes--02-binding iron chelates (human, mammals)
P01HL-18208-04 0007 Center for the study of blood cell rheology - RBC membrane protein (human)
P01HL-18576-03 0003 Thrombosis research program project - Biocompatible materials
P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
P01HL-18577-03 0003 Lipoproteins--Cell surface interactions - Mechanism of lipid exchange in lipoproteins and cell membranes
P01HL-18577-03 0005 Lipoproteins--Cell surface interactions - Chemical synthesis of apolipoproteins and apolipoprotein fragments
R01HL-18737-03 Human erythrocyte membrane structure
R01HL-18893-03 Mechanism of angiotensin action--Role of receptor (rats)
R01HL-19027-03 Calcium and cyclic AMP in causation of hypertension (rats)
P01HL-19259-03 0001 Digoxin-specific antibody in human therapy - Primary structure of monoclonal antibodies (rabbits)
P01HL-19259-03 0004 Digoxin-specific antibody in human therapy - Digitalis-specific antibodies pharmacological studies (human, dogs, sheep)
R01HL-19282-03 Regulation of the activation of human factor X
R01HL-19423-03 Catecholamine action on the heart (cats, rats)
R01HL-19676-02 Physico-chemical interactions in pulmonary surfactant
P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport
R01HL-20079-02 0001 Thromboresistant material - Active and passive thromboresistant surfaces
R01HL-20087-02 Developmental processes in pulmonary hypertension (rats)
R01HL-20116-01 Heart lactate dehydrogenase--The complex with NADH (pig)
** R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
R01HL-20471-03 Atherosclerosis and diabetes mellitus (human)
R01HL-20971-10 Membrane glycoproteins of platelets and leukocytes (human)
P01HL-20994-02 0009 Dynamics of neutrophil elastase in the lung - Biosynthesis and degradation of elastin in emphysema (human, hamsters)
R01HL-21030-01 Calcium regulation and hypertension (rats)
** R01HL-21112-02 Aldosterone binding, clearance, and secretion in man
R01HL-21273-02 Fibrinogen labeling with radiometals
R01HL-21329-02 Beta receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
R01HL-21342-02 Isolation and analysis of sodium channel from heart (frogs)
R01HL-21493-02 Contractility in cardiac failure (hamsters)
R01HL-21820-01 Regulatory role of myosin in cardiac hypertrophy (dogs)
R01HL-21975-01 Studies on normal and abnormal factor IX (human, dogs, cows)
R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
R01HL-22077-01 Vasoactive amine disposition in cultured endothelium (rabbits)
R01HL-22136-02 Histamine and cardiac adenyl cyclase
R01HL-22402-01 Heparin-biophysical, chemical and biological aspects (mice, human)
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
R01HL-22570-01 Interactions of sterols in biological systems (human)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
P01HL-22619-01 0004 Cellular mechanisms of heart failure - Mechanism of action of Na, K-ATPase (sheep, cattle)
P01HL-22619-01 0005 Cellular mechanisms of heart failure - Molecular mechanism of regulation of cardiac muscle contraction (cattle)
P01HL-22619-01 0006 Cellular mechanisms of heart failure - Phosphorylation of contractile proteins in cardiac muscle contraction (dogs, rabb
R01HL-22671-01 Removal of senescent and stored human red cells
R01HL-23392-01 Membrane binding and transport of calcium and potassium ionophores
R01HL-23626-01 A study of the regulation of myocardial hypertrophy (rats)
N01HV-12017-15 Fabrication of grafted hydrogel coatings for plastic heart assist devices

CHEMICAL BONDS, BOND CLEAVAGE

P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
R01HL-11963-10 Biochemistry of blood vessel formation and disease (swine)
R01HL-14680-07 Specific enrichment of myoglobins for carbon 13 NMR (catacea)
R01HL-15615-06 Structure-function studies of human factor VIII/vWF
R01HL-15892-05 Inhibitors of proteinases (human, cattle, swine)
R01HL-16150-05 Primary structure of prothrombin (cattle, human)
R01HL-18561-03 Radioimmunoassay of angiotensinogen (human)
R01HL-21379-01 Structure of factor VIII-Von Willebrand protein (human)
R01HL-22505-01 Molecular pathology of fibrinogen and factor XIII (human, animals)
R01HL-22955-01 inetics of prothrombin activation

CHEMICAL BONDS, COVALENT

P01HL-13738-08 0005 Cardiac assist devices and artificial hearts - Development of new materials for artificial heart and assist devices (sheep, dog)
P01HL-15596-05 0020 Coagulation, fibrinolysis, hemostasis and hepatitis - Affinity chromatography
P01HL-16251-06 0001 Membrane-bound enzymes in heart and other tissues - Structure of covalently bound flavins (bacteria, yeast, mammals)
R01HL-22471-01 Biochemistry of prothrombin quick (human)

CHEMICAL BONDS, CROSSLINKS

R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
R01HL-02212-23 Coagulation of blood (human)
R01HL-05791-18 Structure and function in hemoglobins (human)
P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
P01HL-06350-17 0020 Hemostasis research program project - Structure and function of coagulant venom proteases
** P01HL-06835-17 0027 Cardiovascular disease - Studies in thrombosis-cross-linking of fibrinogen (human)
R01HL-07379-13 Structure and function of fibrinogen (human)
P01HL-11310-12 0106 Mechanisms of cardiovascular disease - Biochemical characterization of the collagens in vascular tissue (cattle)
R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)
R01HL-11963-10 Biochemistry of blood vessel formation and disease (swine)
** R01HL-12561-11 Cardiovascular studies on copper deficiency (swine)
P01HL-13262-07 0012 Arterial wall in atherosclerosis Characterization of connective tissue components (animals)
** P01HL-13262-07 0015 Arterial wall in atherosclerosis Crosslinkage biosynthesis in aortic elastin and collagen (animals)
P50HL-14217-08 0048 Specialized center of research in thrombosis Fibrinolysis section--Structural studies (human, animal)
P50HL-14217-08 0049 Specialized center of research in thrombosis Fibrinolysis section Clinical studies
P60HL-15157-07 0009 Comprehensive center for sickle cell disease Red cell membrane alterations during sickling (human)
P60HL-15157-07 0018 Comprehensive center for sickle cell disease Red blood cell membrane physiology in sickle cell anemia (human)
P01HL-15195-04 0001 Program project in biological materials Design and synthesis
P01HL-15195-04 0003 Program project in biological materials Mechanical evaluation and fabrication
** P01HL-15486-06 0001 Studies on thrombosis Studies on chemistry of fibrinogen (human, dogs)
P01HL-15486-06 0002 Studies on thrombosis Characterization of antisera to fibrinopeptide B (human, rabbits)
R01HL-15793-06 Molecular aspects of erythrocyte membrane resealing (human)
P01HL-15832-06 0001 Chemical-structural predispositions to lung injury Chemical composition of lung connective tissue proteins (human, animals)
P60HL-16005-05 0015 Comprehensive sickle cell center - Molecular basis for the sickling phenomenon
P01HL-16118-06 0006 Study of emphysema Metabolism of elastin (hamsters)
R01HL-16150-05 Primary structure of prothrombin (cattle, human)
R01HL-16361-03 Fibrin complexes in intermediary coagulation (human, rabbits)
P01HL-16607-05 0005 Calcium ion and control of cardiovascular function Chemical modifications of the sarcoplasmic reticulum membranes (rabbits)
R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
R01HL-17879-04 Molecular structure of the ouabain sensitive ATPase (dogs)
R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)
P01HL-18576-03 0002 Thrombosis research program project - Molecular basis of fibrin formation (human, cattle, lamprey)
R01HL-18593-03 Characterization of heart valve collagen (human, pig)
R01HL-18672-03 Dynamic studies of clot structure formation (human)
R01HL-18918-03 Characterization of lung elastins (rat, rabbit, chicken, Rhesus)
R01HL-19429-03 Phagocytosis--Ingestion in alveiolar macrophages (rabbits)
P01HL-19717-02 0001 Response of the lung to injury - Lung elastic tissue (animals)
P01HL-19717-02 0002 Response of the lung to injury - Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)
P01HL-19717-02 0008 Response of the lung to injury - Experimental models of lung disease
P01HL-19717-02 0023 Response of the lung to injury - Postnatal lung development--Cells, connective tissue and physiology (animals)
P01HL-19717-02 0028 Response of the lung to injury - Compensatory growth of the lung following pneumonectomy (rabbits)
R01HL-20074-02 Structure and function of amidinated human hemoglobin
R01HL-20106-02 Coupling of platelet contractile proteins to fibrin (human)
R01HL-20319-02 Assembly, structure and interactions of fibrin (human)
R01HL-20391-03 Polydisperse LDL--Structure, metabolism and function (human)
R01HL-20500-02 Diabetic human brain microvascular basement membrane (human)
P01HL-20592-02 0001 Cell biology of cardiac and skeletal muscle - Molecular mechanism of muscle contraction (animals)
R01HL-20764-02 Elastin and calcification in pulmonary and vascular disease (human, mammals)
P60HL-20985-01 0006 Northern California sickle cell center - Antisickling properties of imidoesters (human, rats)
P01HL-21016-02 0003 Sickle cell anemia and other hemoglobinopathies - Role of non-S hemoglobin in gelation and sickling
R23HL-21129-02 The antisickling effects of imidoesters
R01HL-21139-02 Molecular biology of factor XIII (human)
** R01HL-22040-01 Regulation of lysyl-cross-linking in vascular tissue (rats, turkeys)
R01HL-22208-02 Elastin structure, fibrogenesis and disease (chickens, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
R01HL-22505-01 Molecular pathology of fibrinogen and factor XIII (human, animals)
R01HL-22955-01 inetics of prothrombin activation
R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)
R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)

CHEMICAL BONDS, DISULFIDE BONDS

R01HL-02751-21 Function and metabolism of serum albumin (mammals, fish, amphibians)
** R01HL-07379-13 Structure and function of fibrinogen (human)
P50HL-14147-08 0018 Specialized center of research in thrombosis - Biochemical aspects of platelet function in thrombosis and cell growth (human)
R01HL-15535-06 Structure and function of human plasmin
R01HL-16150-05 Primary structure of prothrombin (cattle, human)
P60HL-17265-04 0002 Community blood resource center support - Research--Human factor VIII

CHEMICAL BONDS, HYDROGEN BOND

R01HL-13909-27 Physiochemistry and immunology of macromolecules
R01HL-16087-05 Structural and dynamic study of model heme complexes (yeast)
P01HL-16833-04 0003 Hemoglobin and red cell system in hemoglobinopathies - Oxygen binding curves and equilibria (human)

CHEMICAL BONDS, HYDROPHOBIC

P01HL-06285-18 0215 Cardiovascular-respiratory physiology and biochemistry - Conformation of biopolymers
P01HL-15195-04 0001 Program project in biological materials - Design and synthesis
P01HL-16748-05 0001 Cellular and immunological basis of pulmonary diseases - Mechanisms of alveolar macrophage function and dysfunction (human, rabbits)
P01HL-18576-03 0003 Thrombosis research program project - Biocompatible materials
R01HL-19639-02 Permeability transients of carriers, channels and heart

CHEMICAL BONDS, IONIC

P01HL-06285-18 0200 Cardiovascular-respiratory physiology and biochemistry - Medullary counter-current system (animals)

CHEMICAL BONDS, UNSATURATED COMPOUNDS, POLYENES

P01HL-08214-15 0030 Chemical and biological properties of lipids - Fatty acid biosynthesis in plant cell cultures and in plants
R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions
R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)

CHEMICAL BONDS, VIBRATIONS

SEE ALSO OPTICS, CHROMOPHORE*
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
R01HL-16087-05 Structural and dynamic study of model heme complexes (yeast)
R01HL-22233-01 Characterization of bio-materials by elastic property

CHEMICAL CARCINOGENS

SEE NEOPLASTIC TRANSFORMATION, CARCINOGENS, CHEMICAL

CHEMICAL CONTAMINANTS-POLLUTANTS, ENVIRONMENTAL (GENERAL)

SEE ENVIRONMENTAL HEALTH, CONTAMINATION (GENERAL)

CHEMICAL MODELS

SEE MODELS, CHEMICAL

CHEMICAL REACTION RATES

SEE ALSO CHEMISTRY, ANALYTICAL METHODS, TEMPERATURE JUMP*
P01HL-06664-17 0040 Cardiopulmonary function in remediable vascular disease - The coupling of ion transport to metabolism (toads)
P50HL-14147-08 0013 Specialized center of research in thrombosis - Mathematical models of blood coagulation kinetics
P01HL-15194-07 0006 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Velocity of Bohr effect in erythrocytes (human)
P01HL-15194-07 0009 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Diffusion and erythrocytes reaction rates (human, dogs)
R01HL-15648-06 Lipid metabolism--Transport by lateral diffusion (human, rabbit, cattle)
** P01HL-17731-04 0010 Physiological basis of pulmonary disease - Gas exchange kinetics (dogs)
R01HL-18764-03 Biosorbable thromboresistant surfaces (dogs, rats, swine, human)
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
R01HL-19491-03 Mechanism of iron storage and mobilization by ferritin (horse)
P60HL-20985-01 0003 Northern California sickle cell center - Kinetics of sickling and clinical manifestations in sickling disorders (human)
R01HL-21513-02 Metabolism of trans fatty acids (human, rats, swine)
R01HL-22538-01 Myosin as a multi-enzyme complex (dogs, rabbits)
R01HL-23392-01 Membrane binding and transport of calcium and potassium ionophores

CHEMICAL REACTION RATES, FAST REACTIONS

R01HL-13035-08 Heart mitochondrial malate dehydrogenase regulation
R01HL-15284-06 Hemoglobin and myoglobin kinetic studies (human, animals)
R01HL-17963-04 Human erythrocyte carbonic anhydrase
R01HL-18048-04 Dynamics of artificial and biological membranes (human)
** R01HL-19488-03 Picosecond laser studies of heme-proteins
** P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport

CHEMICAL REACTION SITES

SEE ALSO DRUGS RECEPTORS
R01HL-02751-21 Function and metabolism of serum albumin (mammals, fish, amphibians)
P01HL-09011-15 0005 A research and resource program in blood - Characterization of hepatitis-B antigen and the cause of serum hepatitis (human)
R01HL-12585-10 Structural properties of malate dehydrogenase (swine)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
R01HL-13160-08 Human thrombin (also cattle)
R01HL-13581-11 Reactions of oxygen with heme proteins
** R01HL-13652-08 Metal sites in metalloproteins (mushroom)
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
P50HL-14217-08 0062 Speciaiized center of research in thrombosis - Coagulation section--Factor VIII and Factor XII (human, cattle)
R01HL-14820-07 Factors affecting physiology of biological membranes (human)
R01HL-14865-07 Biochemical studies on the pathogenesis of emphysema (human, rats)
P50HL-15061-07 0009 Response of lung to injury - Alveolar macrophages (human, rabbits)
P50HL-15061-07 0012 Response of lung to injury - Hyperbaric oxygen, carbon monoxide, and ozone or peroxide toxicity (rats)
R01HL-15293-07 Sickle cell hemoglobin--Interactions and aggregation (human)
P01HL-15596-05 0007 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of urokinase (human)
R01HL-15892-05 Inhibitors of proteinases (human, cattle, swine)
R01HL-16087-05 Structural and dynamic study of model heme complexes (yeast)
** P01HL-16251-06 0008 Membrane-bound enzymes in heart and other tissues - Iron-sulfur centers and phospholipids modulation of succinate dehydrogenase
R01HL-16628-05 Regulation of lipid metabolism (rats)
R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
R01HL-16860-05 Mossbauer studies of respiratory hemoproteins
R01HL-17559-03 Structural elucidation of heart cytochrome-C oxidase
R01HL-18612-03 Thin filament control of heart contraction (cattle)
R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)
R01HL-20391-03 Polydisperse LOL--Structure, metabolism and function (human)
R01HL-21096-02 Sickle cell crisis--Role of the erythrocyte membrane (human)
R01HL-21170-01 Molecular structure of human serum transferrin

CHEMICAL REACTION SITES, ALLOSTERIC SITES

R01HL-05791-18 Structure and function in hemoglobins (human)
R01HL-07451-16 Hemoglobin S gelation and hemoglobin allostery (human)
R01HL-12524-10 Reaction of hemoglobin with ligands and antibodies (human, carp)
R01HL-13035-08 Heart mitochondrial malate dehydrogenase regulation
R01HL-13164-07 Interaction of the alpha and beta chains of human hemoglobin
R01HL-13531-06 Coboglobins--Cobalt substituted myo- and hemoglobins
R01HL-14020-06 Characterization of myosin from blood platelets (rabbit)
R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)
R01HL-17976-18 Chemical agents and heart glycolytic enzymes (sheep)
R01HL-18304-03 FT-infrared spectroscopy of heart muscle energetics (cattle)
R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin
R01HL-22194-02 Allosteric function of platelet contractile proteins (human)
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
R01HL-22325-01 Thermodynamics in respiratory protein binding (human, trout)

CHEMICAL REACTION SITES, FUNCTIONAL GROUPS

SEE ALSO ALKYL (GROUPS)
R01HL-05791-18 Structure and function in hemoglobins (human)
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
P01HL-08214-15 0010 Chemical and biological properties of lipids - Infrared spectroscopy of lipids
R01HL-08299-16 Molecular biology of hemerythrin and hemocyanin (invertebrates)
R01HL-09544-12 Biochemistry of contractile proteins (animals)
R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)
R01HL-12524-10 Reaction of hemoglobin with ligands and antibodies (human, carp)
R01HL-12526-09 Raman spectra of heme proteins and related molecules
R01HL-14508-10 Structure and function of respiratory hemoproteins
R01HL-14680-07 Specific enrichment of myoglobins for carbon 13 NMR (catacea)
R01HL-14938-06 Contractile proteins of heart muscle (dogs, rabbits)
R01HL-15155-05 Rheology of pulmonary secretions (dogs)
R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)
R01HL-15535-06 Structure and function of human plasmin
P01HL-15596-05 0008 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of antihemophilic factor (human)
R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
** P01HL-16607-05 0005 Calcium ion and control of cardiovascular function - Chemical modifications of the sarcoplasmic reticulum membranes (rabbits)
R01HL-16891-05 The folding of hemoglobin
R01HL-17494-07 Mechanism of liqand binding to hemoglobin (human)
P01HL-17813-04 0008 Lung disease and the oxygenation of blood and tissue - Pulmonary regulation of systemic blood pressure (human, rabbits, rats)
** R01HL-18634-03 Quarternary structure of erythro and chlorocruorins (invertebrates)
R01HL-20464-01 Regulation of cardiac and skeletal muscle contraction (mammals)
R23HL-21328-02 The I blood group antigen of human erythrocyte membrane
R23HL-21488-01 Myosin-linked regulation in vertebrate smooth muscle (calf aorta)
R01HL-22270-01 Platelet glycoprotein (human)
R01HL-22401-01 Regulation of tension and active state in the heart

CHEMICAL REACTION SITES, ISOSTERIC SITES

R23HL-19573-01 Studies on pulmonary serotonin (mice)

CHEMICAL REACTION SITES, PROTECTIVE GROUPS

P01HL-16607-05 0005 Calcium ion and control of cardiovascular function - Chemical modifications of the sarcoplasmic reticulum membranes (rabbits)

CHEMICAL REACTIONS (DYNAMICS)

SEE ALSO ACYLS, ACYLATION
SEE ALSO ALKYL (GROUPS), ALKYLATION-OEALKYLATION
SEE ALSO AMIOES, AMIOATION
SEE ALSO BIOENERGETICS, HIGH ENERGY COMPOUNOS
SEE ALSO CARBOXYL GROUPS, CARBOXYLATION
SEE ALSO CHEMICAL SYNTHESIS ANO PROOUCTION
SEE ALSO ENZYME MECHANISMS
SEE ALSO ESTERIFICATION
SEE ALSO MOLECULAR CONDENSATIONS
SEE ALSO MOLECULAR INTERACTIONS NONBONOING
SEE ALSO OXIOATION-REOUCTION
SEE ALSO PHOSPHORYLATION
N01HB-62962-02 Red cell distributions in cyanate-treated blood (human, sheep)
R01HL-01974-24 Ion-pump in the erythrocyte (rabbits, guinea pigs)
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
R01HL-07451-16 Hemoglobin S gelatiun and hemoglobin allostery (human)
P01HL-08214-15 0027 Chemical and biological properties of lipids - Biological functions diol lipids (swine, rats, plants)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-08214-15 0041 Chemical and biological properties of lipids - Physico-chemical regulation of enzymes in lipid metabolism
P01HL-11351-12 0006 Cellular and molecular mechanisms of myocardial function - Molecular physiology and energetics of muscle (frogs)
** P01HL-11351-12 0019 Cellular and molecular mechanisms of myocardial function - Mechano-chemical kinetics of small perturbations
P01HL-11351-12 0024 Cellular and molecular mechanisms of myocardial function - Steady state and transient kinetics of frog myosin, S-1, and ATPase
R01HL-12256-15 Polymerization of sickle-cell hemoglobin (human)
R01HL-13157-09 Molecular oxygen carriers--Synthesis, structure, bonding
R01HL-13412-17 Synthetic oxygen carriers
R01HL-15155-05 Rheology of pulmonary secretions (dogs)
** P01HL-15194-07 0006 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Velocity of Bohr effect in erythrocytes (human)
** P01HL-15194-07 0009 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Diffusion and erythrocytes reaction rates (human, dogs)
** P01HL-15194-07 0022 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Pulmonary carbon dioxide exchange (dogs)
P01HL-15195-04 0001 Program project in biological materials - Design and synthesis
R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)
R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
R01HL-15640-06 Thermodynamic studies on model oxygen carriers
P60HL-16008-06 0017 Wayne State University comprehensive sickle cell center - Oxygen transport kinetics of pre- and post-sickling cells (human)
** P01HL-16117-05 0003 Ion movements and membranes in cardiovascular control - Fast kinetic study of calcium membrane interactions
R01HL-16355-05 Reactions of thrombin and collagen with platelets (human)
R01HL-16419-03 Arterial uptake of lipoprotein--Kinetic analysis (rabbits)
R01HL-16474-05 Antibiotic-ion interactions (model membranes)
R01HL-17494-07 Mechanism of ligand binding to hemoglobin (human)
R01HL-17828-04 Kinetic studies of hemerythrin reactions (marine worms)
R01HL-18179-03 Heart, platelet, and muscle myosins and actomyosins (cattle)
R01HL-18245-03 Transition state analog inhibitors of thrombin (human, cattle)
P01HL-18577-03 0003 Lipoproteins--Cell surface interactions - Mechanism of lipid exchange in lipoproteins and cell membranes
** R01HL-18736-03 Protein transport through arterial tissue (rabbits)
R01HL-18905-04 Acquisition of native conformation of proteins (human, cattle)
R01HL-19459-03 Dynamics of atherogenesis and lipoprotein formation (human, rabbit)
** P01HL-19737-02 0008 Cellular and molecular aspects of respiratory physiology - Kinetics of movement of acid metabolites from cell to capillary blood (dogs)
R01HL-20262-02 Cardiac glycosides and the mechanism of the sodium-potassium pump
R01HL-20365-03 Molecular mechanisms of anion transport
** P01HL-20592-02 0001 Cell biology of cardiac and skeletal muscle - Molecular mechanism of muscle contraction (animals)
R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
P01HL-20984-02 0002 Cellular mechanisms in cardiac hypertrophy - Thermodynamic, fluorescence, chemical modification of hypertrophied heart myosin
** P01HL-20984-02 0003 Cellular mechanisms in cardiac hypertrophy - Fast-kinetics of myosin ATPase from normal and hypertrophied heart (rabbits)
R01HL-20996-02 Structural and reactivity of iron and cobalt complexes
** P01HL-21016-02 0004 Sickle cell anemia and other hemoglobinopathies - Kinetics of sickling
** P01HL-21016-02 0005 Sickle cell anemia and other hemoglobinopathies - Ligand kinetics in normal and Hb S containing erythrocytes (human)
R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin
R23HL-21488-01 Myosin-linked regulation in vertebrate smooth muscle (calf aorta)
R01HL-22136-02 Histamine and cardiac adenyl cyclase
** R01HL-22955-01 inetics of prothrombin activation
** R01HL-23267-01 Rheology and kinetics of hemoglobin S gelation (human)

CHEMICAL REACTIONS, BROWNING REACTION

R01HL-19454-02 Rheological factors in transport across arterial wall (dogs)

CHEMICAL REACTIONS, CATALYSTS

SEE ALSO ENZYMES
R01HL-15668-06 Extracorporeal respiratory gas exchange A new approach (dogs)
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase

CHEMICAL REACTIONS, DISSOCIATION

SEE ALSO IONIZATION
R01HL-07451-16 Hemoglobin S gelation and hemoglobin allostery (human)
R01HL-13035-08 Heart mitochondrial malate dehydrogenase regulation
R01HL-14938-06 Contractile proteins of heart muscle (dogs, rabbits)
R01HL-15284-06 Hemoglobin and myoglobin kinetic studies (human, animals)
R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)
R01HL-15648-06 Lipid metabolism--Transport by lateral diffusion (human, rabbit, cattle)
R01HL-16474-05 Antibiotic-ion interactions (model membranes)
R01HL-16549-04 Cardiotonic steroid-NaK ATPase interactions (cattle)
P01HL-17731-04 0010 Physiological basis of pulmonary disease - Gas exchange kinetics (dogs)
R01HL-18893-03 Mechanism of angiotensin action--Role of receptor (rats)
R01HL-19456-03 Immunoglobulins associated with serum hyperviscosity (human)
R01HL-19488-03 Picosecond laser studies of heme-proteins
R01HL-19491-03 Mechanism of iron storage and mobilization by ferritin (horse)
R01HL-19982-02 Blood coagulation--Protein-metal ion-lipid interactions
** P01HL-21016-02 0006 Sickle cell anemia and other hemoglobinopathies - Analysis of the oxygen dissociation curve of Hb S-containing red cells
R01HL-21113-01 Control mechanisms in coagulation (cattle)
R01HL-21791-01 Precipitation of proteins with poly (ethylene glycol) (human)
R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
R01HL-22570-01 Interactions of sterols in biological systems (human)

CHEMICAL REACTIONS, HYDRATION

R01HL-15155-05 Rheology of pulmonary secretions (dogs)
P01HL-15195-04 0003 Program project in biological materials - Mechanical evaluation and fabrication
R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
R01HL-17963-04 Human erythrocyte carbonic anhydrase
** R01HL-18441-03 Guidelines for polymers acting as elastin substitutes
R01HL-19320-03 Angiotensin neuropharmacology--Relationship to sodium
R01HL-19700-03 Deposition of hygroscopic aerosols (models)
R01HL-19704-03 Aerosol therapy (models, dogs, human)
R01HL-19715-02 Respiratory tract deposition of hygroscopic aerosols (dogs, human)
R01HL-19722-03 Aerosol growth in the respiratory system (models)
R01HL-20024-03 Therapeutic aerosols--Characteristics and retention (human, dogs)
R01HL-20105-02 Deposition of hygroscopic aerosols in bronchi (dogs, human, models)

CHEMICAL REACTIONS, HYDRATION, DEHYDRATION

R01HL-17963-04 Human erythrocyte carbonic anhydrase

CHEMICAL REACTIONS, HYDROXYLATION

P01HL-08899-14 0062 Tolerance to respiratory gases in health and disease - Influence of oxygen at high pressure upon oxidation (rats)
** R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
R01HL-16471-05 Cardioactive alloyohimbines and related indole alkaloids
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
R01HL-19654-03 Biochemical-pharmacological evaluation of lung cells (rabbits)
R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)

CHEMICAL REACTIONS, SOLVOLYSIS

R01HL-11418-09 Poly-diaminophosphazenes

CHEMICAL REACTIONS, SOLVOLYSIS, HYDROLYSIS

SEE ALSO HYDROLASES
R01HL-01662-25 Equilibria in the fibrinogen-fibrin conversion (human, cattle)
P01HL-06285-18 0210 Cardiovascular-respiratory physiology and biochemistry - Physicochemical and enzymatic studies of lung surfactant (Halobacterium)
P01HL-08214-15 0041 Chemical and biological properties of lipids - Physico-chemical regulation of enzymes in lipid metabolism
P01HL-11351-12 0022 Cellular and molecular mechanisms of myocardial function - Energetic sequelae of shortening Myothermal and biochemical (frogs)
P01HL-11351-12 0023 Cellular and molecular mechanisms of myocardial function - Energetics of mammalian muscle (rats)
P50HL-14237-07 0001 Support for arteriosclerosis center - Role of apolipoproteins in lipoprotein catabolism (human, rats)
P01HL-14388-07 0173 Regulation of the circulation in pathological states - Mechanisms of cardiac myosin ATPase
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-18179-03 Heart, platelet, and muscle myosins and actomyosins (cattle)
R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
R01HL-20079-02 0001 Thromboresistant material - Active and passive thromboresistant surfaces
R23HL-21488-01 Myosin-linked regulation in vertebrate smooth muscle (calf aorta)
R01HL-21513-02 Metabolism of trans fatty acids (human, rats, swine)
R01HL-22612-01 Stabilized prostacyclins to treat vascular disease
R23HL-22799-01 Interaction of the complement and coagulation systems (monkeys)

CHEMICAL REACTIONS, SUBSTITUTION

R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
R01HL-17896-03 Dehydropeptide renin substrates

CHEMICAL REACTIONS, SUBSTITUTION, ISOMORPHOUS

** R01HL-14680-07 Specific enrichment of myoglobins for carbon 13 NMR (catacea)

CHEMICAL REACTIONS, SUBSTITUTION, NUCLEOPHILIC

P01HL-20994-02 0004 Dynamics of neutrophil elastase in the lung - Mechanism of enzyme inhibition by alpha-1 antitrypsin (cattle)

CHEMICAL STABILITY

SEE ALSO TEMPERATURE, HEAT STABILITY-LABILITY
R01HL-08893-14 Structure and function of membrane proteins (human)
R01HL-12256-15 Polymerization of sickle-cell hemoglobin (human)
R01HL-16927-05 Structure and function of normal and abnormal hemoglobin (human)
R01HL-18619-03 Transferrin iron binding and transport properties (chicken, rabbit, human)
R01HL-18905-04 Acquisition of native conformation of proteins (human, cattle)
R01HL-19491-03 Mechanism of iron storage and mobilization by ferritin (horse)
R01HL-22538-01 Myosin as a multi-enzyme complex (dogs, rabbits)

CHEMICAL STIMULATION

SEE DRUGS, PHARMACOLOGY, STIMULATION, CHEMICAL

CHEMICAL STRUCTURE

SEE ALSO CARBOHYDRATES STRUCTURE
SEE ALSO CARBOHYDRATES STRUCTURE, SUGAR SEQUENCE
SEE ALSO CHEMICAL REACTIONS, SUBSTITUTION, ISOMORPHOUS
SEE ALSO GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN STRUCTURE
SEE ALSO HEMOPROTEINS STRUCTURE
SEE ALSO LIPIDS STRUCTURE
SEE ALSO NUCLEIC ACIDS STRUCTURE
SEE ALSO PORPHYRINS STRUCTURE
SEE ALSO PROTEINS-PEPTIDES STRUCTURE
P01HL-06285-18 0211 Cardiovascular-respiratory physiology and biochemistry - Purple membrane of Halobacteria
** P01HL-06285-18 0212 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gap junction (bovine)
** P01HL-06285-18 0214 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function-EM of macromolecules
** P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changes in lymphocytes (human, mice)
P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
P01HL-08214-15 0010 Chemical and biological properties of lipids - Infrared spectroscopy of lipids
P01HL-08214-15 0041 Chemical and biological properties of lipids - Physico-chemical regulation of enzymes in lipid metabolism
P01HL-08214-15 0048 Chemical and biological properties of lipids - Lipids in microorganisms and plants

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo–Capillary membrane in normal pulmonary hypertensive lung
** P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
** R01HL-12395-10 X-ray study of oxygen-carrying cobalt complexes
R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-12684-09 Angiotensin I and converting enzyme in hypertension (human, primates, dogs)
R01HL-14111-07 Cholesteryl esters in membranes and atherosclerosis (human, swine)
P50HL-14236-05 0001 Prevention of premature arteriosclerosis - Metabolism and transport of cholesterol and vitamin A (human, rats)
R01HL-15104-07 A mechanism for oxidative phosphorylation
M P01HL-15195-04 Program project in biological materials
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
P01HL-15195-04 0003 Program project in biological materials - Mechanical evaluation and fabrication
P01HL-15596-05 0003 Coagulation, fibrinolysis, hemostasis and hepatitis - Plasmin degraded fibrinogen fractions (human)
P01HL-15596-05 0007 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of urokinase (human)
** P01HL-15596-05 0008 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of antihemophilic factor (human)
P01HL-15835-06 0007 Study of muscles related to heart disease - Structure and function of Limulus striated and cardiac muscle
** P01HL-16137-05 0001 Alveolar biology - Chemical characterization of surfactant system--Lipid and lipid protein fractions
** R01HL-16150-05 Primary structure of prothrombin (cattle, human)
P01HL-16683-04 0002 Function and growth of cardiac and skeletal muscle - Myosin, actin, ATP, interaction in solution
R01HL-16746-04 Design of ion-selective molecules
M P01HL-16833-04 Hemoglobin and red cell system in hemoglobinopathies
P01HL-16833-04 0001 Hemoglobin and red cell system in hemoglobinopathies - Motility, association and ligand binding in hemoglobin--Hydrogen exchange
** R01HL-17376-04 Analysis of Z bands in heart by optical diffraction (mammals)
P01HL-17382-05 0003 Chemical mediators of acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
R01HL-17799-02 The presence and significance of heart acetylcholine (cats)
** R01HL-18253-03 Structure of the palytoxins
** R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)
** P01HL-18576-03 0002 Thrombosis research program project - Molecular basis of fibrin formation (human, cattle, lamprey)
** P01HL-18708-03 0003 Oxygen, energy and contractility in cardiac tissue - Structural-functional studies on cytochrome c oxidase
** P01HL-18708-03 0004 Oxygen, energy and contractility in cardiac tissue - Structural-functional studies on sarcoplasmic reticulum (rabbits)
P01HL-18827-02 0002 Platelet vessel wall interactions in thrombogenesis - Interactions of vessel wall macromolecules with factor XII (human, rats)
** P01HL-19259-03 0001 Digoxin-specific antibody in human therapy - Primary structure of monoclonal antibodies (rabbits)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R01HL-20500-02 Diabetic human brain microvascular basement membrane (human)
P01HL-20948-02 0001 Molecular basis of cholesterol metabolism - Biochemical and ultrastructural characterization of LDL in human fibroblasts
R23HL-21051-02 Adrenergic receptors and the adenylate cyclase system (frog RBC)
R23HL-21328-02 The I blood group antigen of human erythrocyte membrane
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)
R01HL-21769-01 Blood compatible benzamidine containing polymers
R01HL-21779-01 Steroids in adrenal regeneration hypertension (rats)
R01HL-21791-01 Precipitation of proteins with poly (ethylene glycol) (human)
R01HL-22077-01 Vasoactive amine disposition in cultured endothelium (rabbits)
** R01HL-22201-01 Pharmacology and chemistry of nudibranch toxins (guinea pigs, rats, mice)
P01HL-22633-01 0004 Cellular and molecular biology of lipoprotein metabolism - Lipid-lipid and lipid-protein interactions in serum lipoproteins (human, rats)
R01HL-22955-01 inetics of prothrombin activation
R01HL-23183-01 Voltage dependent conductance in membranes
N01HV-32917-08 Materials development and testing

CHEMICAL STRUCTURE, CHAIN LENGTH

R01HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin
P60HL-17269-04 0016 National heart and blood vessel research and demonstration center - New analytical methodology for atherosclerosis studies
R01HL-17995-04 Cellular synthesis and release of mucopolysaccharides (rabbits)
R23HL-22818-01 Biosynthesis of human respiratory mucous glycoprotein (also dog)

CHEMICAL STRUCTURE, ISOMERS

P01HL-06835-17 0061 Cardiovascular disease - Studies in renal physiology (human, rats, dogs)
R01HL-07451-16 Hemoglobin S gelation and hemoglobin allostery (human)
P01HL-08214-15 0006 Chemical and biological properties of lipids - Analysis and properties of lipids
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)
R01HL-12879-09 0005 Pulmonary transport and metabolism in vivo - Glucose transport by pulmonary endothelium and epithelium (dogs)
R01HL-15892-05 Inhibitors of proteinases (human, cattle, swine)
P60HL-17269-04 0016 National heart and blood vessel research and demonstration center - New analytical methodology for atherosclerosis studies
P01HL-17813-04 0008 Lung disease and the oxygenation of blood and tissue - Pulmonary regulation of systemic blood pressure (human, rabbits, rats)
R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)

CHEMICAL STRUCTURE, ISOMERS, CIS-TRANS ISOMERIZATION

R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
R01HL-18239-03 Dietary fat composition and prostaglandin synthesis (rats)
** R01HL-21513-02 Metabolism of trans fatty acids (human, rats, swine)

CHEMICAL STRUCTURE, ISOMERS, STEREOISOMERS (GENERAL)

R01HL-19772-02 Role of warfarin metabolism in antivitamin K activity (rats)

CHEMICAL STRUCTURE, MOLECULAR SHAPE

SEE ALSO CHEMICAL STRUCTURE, STEREOCHEMISTRY
R01HL-17976-18 Chemical agents and heart glycolytic enzymes (sheep)
P50HL-19190-02 0005 Pulmonary SCOR--Pathophysiology, management of IRDS - Glycoproteins in mucous secretions (human, cattle)

CHEMICAL STRUCTURE, STEREOCHEMISTRY

SEE ALSO CHEMICAL STRUCTURE, ISOMERS
P01HL-08214-15 0030 Chemical and biological properties of lipids - Fatty acid biosynthesis in plant cell cultures and in plants
P01HL-12157-11 0037 Functions and mechanisms of cell membrane ion transport - Developing structure of heart cells in tissue culture
** R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
R01HL-13412-17 Synthetic oxygen carriers
P60HL-15157-07 0011 Comprehensive center for sickle cell disease - Development of specific anti-sickling compound (human)
** R01HL-15376-06 Intermediary metabolism of sterols (mice)
** R01HL-15627-06 X-ray and chemical studies of metalloporphyrins
P60HL-16005-05 0015 Comprehensive sickle cell center - Molecular basis for the sickling phenomenon
R01HL-16087-05 Structural and dynamic study of model heme complexes (yeast)
R01HL-16471-05 Cardioactive alloyohimbines and related indole alkaloids
R01HL-16524-02 Selective inhibitors of prostaglandin biosynthesis (dogs)
** P01HL-16833-04 0015 Hemoglobin and red cell system in hemoglobinopathies - Stereochemistry of hemoglobins from magnetic circular dichroism (human)
R01HL-16927-05 Structure and function of normal and abnormal hemoglobin (human)
R01HL-17897-03 Synthesis of alpha and beta adrenergic antagonists
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
R01HL-21367-02 Polyether ionophores--Synthesis of X537A and analogs
R01HL-22778-01 Total synthesis of natural cardiotonic ionophores

CHEMICAL STRUCTURE, STEREOCHEMISTRY, CONFORMATIONS

SEE ALSO CHEMICAL REACTION SITES, ALLOSTERIC SITES
SEE ALSO CHEMICAL REACTION SITES, ISOSTERIC SITES
R01HL-02212-23 Coagulation of blood (human)
R01HL-05791-18 Structure and function in hemoglobins (human)
P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
** P01HL-06285-18 0215 Cardiovascular-respiratory physiology and biochemistry - Conformation of biopolymers
** P01HL-06314-17 0051 Immunologic mechanisms in cardiovascular disease - Conformational studies of phospholipid membranes and proteins
P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
** P01HL-06835-17 0033 Cardiovascular disease - Structure-activity relationship of angiotensin II analogs (rats)
R01HL-07451-16 Hemoglobin S gelation and hemoglobin allostery (human)
P01HL-08214-15 0040 Chemical and biological properties of lipids - Nuclear magnetic resonance studies of lipids
R01HL-08299-16 Molecular biology of hemerythrin and hemocyanin (invertebrates)
P01HL-11310-12 0101 Mechanisms of cardiovascular disease - Molecular pathogenesis of vascular disease
P01HL-11310-12 0102 Mechanisms of cardiovascular disease - Cardiac membrane and ion mobility (dogs)
P01HL-11310-12 0103 Mechanisms of cardiovascular disease - Heparin--Metabolism and function
R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
R01HL-11963-10 Biochemistry of blood vessel formation and disease (swine)
R01HL-12524-10 Reaction of hemoglobin with ligands and antibodies (human, carp)
P01HL-13262-07 0015 Arterial wall in atherosclerosis - Crosslinkage biosynthesis in aortic elastin and collagen (animals)
R01HL-13423-08 Structure-function studies of plasminogen and plasmin (human)
R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
R01HL-13909-27 Physiochemistry and immunology of macromolecules
P50HL-14147-08 0015 Specialized center of research in thrombosis - Charge related properties of phospholipid surfaces in monolayers and vesicles
P50HL-14217-08 0062 Specialized center of research in thrombosis - Coagulation section--Factor VIII and Factor XII (human, cattle)
P50HL-14237-07 0003 Support for arteriosclerosis center - Structure of lipoproteins and apolipoproteins (human, rabbits)
P01HL-14388-07 0173 Regulation of the circulation in pathological states - Mechanisms of cardiac myosin ATPase
R01HL-14509-07 Hypertension--Chemistry and biophysics of angiotensin
P50HL-15062-07 0007 Study of lipoproteins, artery wall, and atherosclerosis - Physical chemistry of lipid-protein interaction (human)
P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
** P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
P01HL-15195-04 0003 Program project in biological materials - Mechanical evaluation and fabrication
R01HL-15378-06 Ultrastructure of antihypertensive prostaglandins
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
** P01HL-15596-05 0017 Coagulation, fibrinolysis, hemostasis and hepatitis - Heparin and antithrombin III
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
R01HL-15808-06 Role of angiotensinogen in hypertension and stroke (human, rabbits)
P01HL-15835-06 0001 Study of muscles related to heart disease - Control of contraction-relaxation of heart and muscle (rabbits, chickens)
P01HL-15835-06 0007 Study of muscles related to heart disease - Structure and function of Limulus striated and cardiac muscle
R01HL-16101-05 Protein-lipid interaction (bacteria, models)
P01HL-16117-05 0006 Ion movements and membranes in cardiovascular control - Neuroreceptors and cellular excitation (fish)
P01HL-16137-05 0001 Alveolar biology - Chemical characterization of surfactant system--Lipid and lipid protein fractions
R01HL-16318-21 Biochemistry and pharmacology of Na-K transport
** R01HL-16375-04 Investigation of hemoglobin S properties (human)
P01HL-16411-04 0003 Blood systems in coagulation and vessel disease - Molecular events involving the late stages of coagulation (rabbits)
R01HL-16601-05 Structure and function of blood proteins (human, cattle)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-16607-05 0005 Calcium ion and control of cardiovascular function Chemical modifications of the sarcoplasmic reticulum membranes (rabbits)
P01HL-16607-05 0006 Calcium ion and control of cardiovascular function - Sarcomere and contractile dynamics of striated muscle cells (animals)
** P01HL-16607-05 0007 Calcium ion and control of cardiovascular function Ultrastructure and conformation in sarcoplasmic reticulum (rabbits)
P01HL-16683-04 0001 Function and growth of cardiac and skeletal muscle Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)
P01HL-16833-04 0006 Hemoglobin and red cell system in hemoglobinopathies Role of water in function of hemoglobin and myoglobin (human)
** R01HL-16891-05 The folding of hemoglobin
P60HL-17269-04 0017 National heart and blood vessel research and demonstration center Cell membrane (dogs, rabbits)
P60HL-17269-04 0019 National heart and blood vessel research and demonstration center - Sarcoplasmic reticulum (dog, rabbit, hamster, cat)
P01HL-17419-04 0007 Studies on mechanisms of hemostasis - Structural analysis of ordered forms of fibrinogen (human, cattle)
R01HL-17494-07 Mechanism of ligand binding to hemoglobin (human)
R01HL-17513-04 Role of PF-4 in detecting and promoting thrombosis (human, primates)
P01HL-18208-04 0007 Center for the study of blood cell rheology - RBC membrane protein (human)
P01HL-18574-03 0005 Lipoprotein methodology and biomedical applications - Structure and function of lipoproteins
P01HL-18576-03 0012 Thrombosis research program project - Synthetic anticoagulant and thrombolytic agents (dogs)
R01HL-18612-03 Thin filament control of heart contraction (cattle)
** R01HL-18672-03 Dynamic studies of clot structure formation (human)
** R01HL-18905-04 Acquisition of native conformation of proteins (human, cattle)
R01HL-19488-03 Picosecond laser studies of heme-proteins
R01HL-19514-03 Proteinase inhibitor model with clinical potential
P01HL-19717-02 0001 Response of the lung to injury - Lung elastic tissue (animals)
P01HL-19717-02 0004 Response of the lung to injury - Regulatory and physical-chemical properties of lung lysyl oxidase (animals)
** R01HL-20262-02 Cardiac glycosides and the mechanism of the sodium-potassium pump
R01HL-20350-02 Crystal structure of lipids--Cholesterol
R01HL-20391-03 Polydisperse LDL--Structure, metabolism and function (human)
R01HL-20750-01 Studies in sickle cell disease (human)
P01HL-20984-02 0001 Cellular mechanisms in cardiac hypertrophy - Contractile proteins in cardiac hypertrophy (rabbits, calves)
P01HL-20984-02 0002 Cellular mechanisms in cardiac hypertrophy - Thermodynamic, fluorescence, chemical modification of hypertrophied heart myosin
P60HL-20985-01 0006 Northern California sickle cell center - Antisickling properties of imidoesters (human, rats)
P01HL-21016-02 0015 Sickle cell anemia and other hemoglobinopathies - EPR study of NO derivatives of Hb Beth Israel (human)
R01HL-21170-01 Molecular structure of human serum transferrin
** R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)
R01HL-21791-01 Precipitation of proteins with poly (ethylene glycol) (human)
R01HL-22035-01 Molecular modification of heparin by chemical means (sheep)
R01HL-22270-01 Platelet glycoprotein (human)
R01HL-22402-01 Heparin-biophysical, chemical and biological aspects (mice, human)
R01HL-22461-01 Cardiac tropomyosin and tropomyosin-action interactions (rabbit)
R01HL-22530-01 Active site studies on blood proteases (human)
R01HL-22570-01 Interactions of sterols in biological systems (human)
P01HL-22619-01 0004 Cellular mechanisms of heart failure - Mechanism of action of Na, K-ATPase (sheep, cattle)
P01HL-22619-01 0005 Cellular mechanisms of heart failure - Molecular mechanism of regulation of cardiac muscle contraction (cattle)
P01HL-22619-01 0011 Cellular mechanisms of heart failure - Reaction of lipoproteins and apolipoproteins with lipoprotein lipase (cattle)
R01HL-24021-02 Erythocyte membrane sulfhydrls and Rh activity (human)
N01HV-72943-01 Prostaglandin and kallikrein kinin system antagonists
N01HV-72944-02 Prostaglandin and kallikrein kinin antagonists
N01HV-72945-03 Develop prostaglandin synthosis and receptor antagonists
N01HV-72946-02 Development of kallikrein Kinin system antagonists

CHEMICAL STRUCTURE--BIOLOGICAL ACTIVITY

SEE ALSO BIOASSAY*
SEE ALSO ENZYME STRUCTURE
R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
R01HL-02558-22 Structure function relationships in the heme proteins (human, cattle)
R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
R01HL-03919-20 The cell surface of streptococci (rats, human)
** R01HL-04366-19 Plasminogen Activation and structure function relations (mammals, birds)
R01HL-05168-19 Inhomogeneity of hemoglobin types (human)
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
R01HL-05791-18 Structure and function in hemoglobins (human)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
** P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
P01HL-06285-18 0194 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--RNA synthesis (rats, toads)
P01HL-06285-18 0210 Cardiovascular-respiratory physiology and biochemistry - Physicochemical and enzymatic studies of lung surfactant (Halobacterium)
P01HL-06285-18 0213 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gas vacuole membrane (Halobacterium)
** P01HL-06350-17 0020 Hemostasis research program project - Structure and function of coagulant venom proteases
P01HL-06370-17 0015 Cardiopulmonary and renal pathology research center - Pathogenesis of chemically induced tissue injury (rats)
P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
** P01HL-06835-17 0033 Cardiovascular disease - Structure-activity relationship of angiotensin II analogs (rats)
R01HL-07379-13 Structure and function of fibrinogen (human)
R01HL-07451-16 Hemoglobin S gelation and hemoglobin allostery (human)
R01HL-07502-13 Phytochemistry of the genus thalictrum (dogs, plants)
M P01HL-08214-15 Chemical and biological properties of lipids
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)
** P01HL-08214-15 0025 Chemical and biological properties of lipids - Biosynthesis and biological functions of plasmalogen (cattle)
** P01HL-08214-15 0027 Chemical and biological properties of lipids - Biological functions diol lipids (swine, rats, plants)
P01HL-08214-15 0040 Chemical and biological properties of lipids - Nuclear magnetic resonance studies of lipids
R01HL-08299-16 Molecular biology of hemerythrin and hemocyanin (invertebrates)
R01HL-08311-14 Effects of drugs upon myocardial hypoxia (dogs, turtles)
** P01HL-08682-15 0006 Regulation of the cardiovascular system - Cardiovascular studies of mammalian hibernators (sciuromorpha)
R01HL-10316-13 Structural studies on low density serum lipoproteins (human)
R01HL-10383-12 Physical-chemical studies of hemoglobins and erythrocyte (human)
** P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
** P01HL-11310-12 0097 Mechanisms of cardiovascular disease - Structural-functional relationships of neuronal differential alloantigens (mice)
P01HL-11414-11 0035 Thrombosis and atherosclerosis program - Mechanism of action of vitamin K (rats)
** R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)
R01HL-11963-10 Biochemistry of blood vessel formation and disease (swine)
R01HL-12524-10 Reaction of hemoglobin with ligands and antibodies (human, carp)
** R01HL-12526-09 Raman spectra of heme proteins and related molecules
R01HL-12585-10 Structural properties of malate dehydrogenase (swine)
R01HL-12648-09 Catecholamine metabolism in hypertensive diseases (human)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
R01HL-12994-09 The Rh complex of red cells (human)
** P01HL-13262-07 0023 Arterial wall in atherosclerosis Isolation and characterization of soluble elastin
P01HL-13262-07 0025 Arterial wall in atherosclerosis Phospholipid and cholesterol esters
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
** R01HL-13423-08 Structure function studies of plasminogen and plasmin (human)
R01HL-13581-11 Reactions of oxygen with heme proteins
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
R01HL-13909-27 Physiochemistry and immunology of macromolecules
P50HL-14147-08 0018 Specialized center of research in thrombosis Biochemical aspects of platelet function in thrombosis and cell growth (human)
** P50HL-14192-08 0004 Specialized center of research in hypertension Isolation and characterization of pure renin (swine, rats, human, rabbits)
P50HL-14217-08 0048 Specialized center of research in thrombosis Fibrinolysis section--Structural studies (human, animal)
P50HL-14217-08 0062 Specialized center of research in thrombosis - Coagulation section--Factor VIII and Factor XII (human, cattle)
** P50HL-14230-07 0098 A/S SCOR--Lipids, atherosclerosis and thrombosis Molecular properties of factor VIII (cattle, human, mice)
P50HL-14237-07 0004 Support for arteriosclerosis center - Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys)
R01HL-14271-07 Physico-chemical properties of tracheal mucus (dogs, frogs)
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
** R01HL-14508-10 Structure and function of respiratory hemoproteins
R01HL-14509-07 Hypertension--Chemistry and biophysics of angiotensin
R01HL-14680-07 Specific enrichment of myoglobins for carbon 13 NMR (catacea)
** P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
P50HL-15062-07 0007 Study of lipoproteins, artery wall, and atherosclerosis - Physical chemistry of lipid-protein interaction (human)
P60HL-15158-07 0016 Comprehensive sickle cell center - Biochemical studies in sickle cell anemia (human)
R01HL-15284-06 Hemoglobin and myoglobin kinetic studies (human, animals)
R01HL-15341-06 Lung hormonal and chromosomal regulation (rats, rabbits)
R01HL-15378-06 Ultrastructure of antihypertensive prostaglandins
** P50HL-15389-07 0014 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of pigeon antigens
P50HL-15389-07 0015 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of thermophilic Actinomycete antigens
** R01HL-15427-06 Secretion of plasma lipoproteins (rats)
R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)
** R01HL-15474-06 Structure and function of the antihemophilic factor (human, cattle)
P01HL-15596-05 0010 Coagulation, fibrinolysis, hemostasis and hepatitis - Von Willebrand's factor (human)
** R01HL-15615-06 Structure-function studies of human factor VIII/vWF
R01HL-15640-06 Thermodynamic studies on model oxygen carriers
P01HL-15832-06 0005 Chemical-structural predispositions to lung injury - Pulmonary structure and stress-strain relationships (rats)
R01HL-15887-05 Enzymes of blood coagulation and fibrinolysis (human)
R01HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
R01HL-15991-05 Evaluation of heart stimulants in sea anemones
** R01HL-16059-06 Structure and function of serum lipoproteins (cattle, human)
R01HL-16087-05 Structural and dynamic study of model heme complexes (yeast)
R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
R01HL-16233-05 Molecular cardiology of MDP-induced left ventricular failure (dogs)
M P01HL-16251-06 Membrane-bound enzymes in heart and other tissues
** P01HL-16251-06 0001 Membrane-bound enzymes in heart and other tissues - Structure of covalently bound flavins (bacteria, yeast, mammals)
** P01HL-16251-06 0002 Membrane-bound enzymes in heart and other tissues - Structural basis of regulation of cardiac succinate dehydrogenase
P01HL-16251-06 0003 Membrane-bound enzymes in heart and other tissues - Regulation of cardiac succinate dehydrogenase (yeasts, mammals)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-16318-21 Biochemistry and pharmacology of Na-K transport
P01HL-16411-04 0005 Blood systems in coagulation and vessel disease - Chemical analysis of serum components associated with coagulation (human, animal)
R01HL-16549-04 Cardiotonic steroid-NaK ATPase interactions (cattle)
** R01HL-16601-05 Structure and function of blood proteins (human, cattle)
R01HL-16628-05 Regulation of lipid metabolism (rats)
** R01HL-16642-05 Biochemistry and pathophysiology of plasma kallikrein (human, animals)
R01HL-16647-05 Studies on the control of sickle cell crisis (human)
R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions
R01HL-16720-02 Platelet aggregation (human)
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
P01HL-16851-04 0006 Human red cell membrane in health and disease - Hexose transport and erythrocyte membrane proteins (human)
R01HL-16919-05 Proteins of blood coagulation (human, bovine)
R01HL-16927-05 Structure and function of normal and abnormal hemoglobin (human)
R01HL-17194-03 Comparison of two inherited forms of alpha-1-antitrypsin (human)
P60HL-17265-04 0002 Community blood resource center support - Research--Human factor VIII
** P60HL-17265-04 0003 Community blood resource center support - Research--Human factor IX--Role in intrinsic clotting (also baboons, dogs)
** P60HL-17269-04 0009 National heart and blood vessel research and demonstration center - Physical methods laboratory (high density lipoproteins)
** P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
** P60HL-17269-04 0022 National heart and blood vessel research and demonstration center - Medicinal chemistry (rabbit, dog, guinea pig)
R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)
R01HL-17402-04 Mechanism of contact activation of intrinsic clotting (human)
** P01HL-17430-05 0002 Control of coagulation - Isolation of ristocetin--von Willebrand factor (swine)
R01HL-17463-03 Composition and structure of plasma lipoproteins (human, rabbits)
R01HL-17494-07 Mechanism of liqand binding to hemoglobin (human)
R01HL-17525-03 Molecular basis of collagen-platelet interaction (human, rat)
R01HL-17555-05 Oistribution and metabolism of labeled digitaloids (dogs, guinea pigs)
R01HL-17576-04 Role of sphingomyelin in biomembranes and bilayers (rats, other mammals)
R01HL-17702-04 Electro-optical dyes as probes of heart excitability
P01HL-17812-04 0001 Thrombosis and plasma proteins - Thrombosis and plasma proteins (cattle, guinea pigs)
R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
** R01HL-17963-04 Human erythrocyte carbonic anhydrase
R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
R01HL-18027-03 New vasoactive factors and their role in hypertension (human, dogs, rats)
R01HL-18038-03 Structure and function of heart mitochondria (cattle)
R01HL-18102-02 Role of the adrenal cortex in human hypertension
R01HL-18259-03 Controlled intratissue release of prostaglandins
** P50HL-18323-04 0038 SCOR hypertension center - Unknown adrenocortical mechanisms in hypertension (human)
P50HL-18323-04 0045 SCOR hypertension center - Laboratory programs--Prorenin (human)
** R01HL-18435-03 Properties of thrombin and Ac-globulin (human, animals)
P01HL-18576-03 0005 Thrombosis research program project - Molecular basis of von Willebrand's disease and hemophilia (human, cattle)
** P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
R01HL-18612-03 Thin filament control of heart contraction (cattle)
R01HL-18619-03 Transferrin iron binding and transport properties (chicken, rabbit, human)
R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
R01HL-18679-04 Synthetic protease inhibitors
R01HL-18737-03 Human erythrocyte membrane structure
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
** R01HL-18852-03 Biochemical studies on the blood coagulation process (human, cattle)
** R01HL-18859-03 Biochemistry of human factor XI (human)
R01HL-18900-03 Intercellular factors in function of cardiac cells
R01HL-18905-04 Acquisition of native conformation of proteins (human, cattle)
R01HL-19066-03 Synthesis and evaluation of prostaglandin metabolites (guinea pigs)
P50HL-19157-02 0004 Studies in cystic fibrosis and bronchiolitis - Macromolecular regulators of mucus secretion--Invertebrate model
** P50HL-19157-02 0007 Studies in cystic fibrosis and bronchiolitis - Analysis of cystic fibrosis factors (human)
P50HL-19160-02 0002 Mucus abnormality in cystic fibrosis - Ultrastructure, cytochemistry of pulmonary secretion (human, rat)
P50HL-19185-02 0002 Pulmonary SCOR--Neonatal respiratory distress syndromes - Biochemistry, ultrastructure--Pulmonary surface active material (human, animal)
** P01HL-19259-03 0002 Oigoxin-specific antibody in human therapy - Chemical semi-synthesis of digoxin-specific antibody (rabbits)
R01HL-19272-03 Studies on the Passovoy factor (human)
R01HL-19278-03 Ristocetin induced platelet aggregation (human)
R01HL-19279-03 Intracellular action of aldosterone in hypertension (human, rats)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
R01HL-19731-03 Collagen in interstitial fibrosis of lung (human)
R01HL-19795-03 Synthesis of anaphylatoxic and leucotactic peptides (human)
R01HL-19806-03 Chemotactic control of airway phagocytes (human, rabbits)
R01HL-19820-02 The chemistry and biological effects of heparin (Rhesus, human, other mammals)
R01HL-19977-02 Genesis of circulatory shock by pancreatic peptides (cats, dogs)
** R01HL-20074-02 Structure and function of amidinated human hemoglobin
** R01HL-20092-02 Structural and biological properties of fibrinogen (human, rabbits)
R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)
R01HL-20220-03 Anaphylatoxins as inflammatory and chemotactic agents (guinea pig, rabbit, human)
R01HL-20254-02 Probes of heart and nerve membranes--Fluorescent dyes
R01HL-20317-02 Procoagulant lipoproteins--Biochemistry and bioactivity (goats, rabbits)
** R01HL-20339-02 Vascular alpha-adrenergic receptor molecular properties
R01HL-20365-03 Molecular mechanisms of anion transport
R01HL-20517-03 Oiabetes, somatotropin, factor VIII and atherosclerosis (human, animal)
** R01HL-20577-03 The mechanism of action of vitamin K
R01HL-20658-01 Myocardial energy transport--Creative kinase (human, cattle, dog)
** R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
R01HL-20859-02 Beta adrenergic catecholamine receptor
R01HL-20996-02 Structural and reactivity of iron and cobalt complexes
** R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)
** R23HL-21208-02 Structure-function relationships of human factor VIII
R23HL-21369-02 Tracheal mucin synthesis in experimental bronchitis (rats)
R01HL-21404-01 Raman spectroscopy of erythrocyte and model membranes (human)
R23HL-21413-02 Structure and function of platelet calcium-binding protein (human)
** R01HL-21457-01 C(17)-side group geometry and cardenolide activity (cats, guinea pigs)
R01HL-21471-02 Structure-function studies on actin and myosin (human, protozoa, rabbits, cattle)
R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin
** R01HL-21626-01 Proteoglycans of animal lung parenchyma (cattle, pigs, rabbits)
** R01HL-21649-01 Biochemistry of lung proteoglycans (mammals)
R01HL-21676-02 Purification and properties of erythropoietin (human)
R01HL-21757-01 Elastin structure--0NA breathing--Hemoglobin S gelation
** R01HL-21763-09 Heparin and heparan sulfate--Structure and activity (beef, hog)
R01HL-21860-18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)
R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
** R01HL-22035-01 Molecular modification of heparin by chemical means (sheep)
R01HL-22115-02 Lipid-mobilization and diabetic atherosclerosis (human)
** R01HL-22119-01 Biochemistry of platelet function in thrombosis and cell growth (rabbits)
R01HL-22136-02 Histamine and cardiac adenyl cyclase
** R01HL-22201-01 Pharmacology and chemistry of nudibranch toxins (guinea pigs, rats, mice)
R01HL-22252-01 Synthesis of labeled hemes for protein NMR studies
** R01HL-22288-01 Renin and precursors--Structure and function (mice)
** R01HL-22402-01 Heparin-biophysical, chemical and biological aspects (mice, human)
R01HL-22522-01 Cardioselectivity of beta-adrenoceptor antagonists
** R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
P01HL-22619-01 0002 Cellular mechanisms of heart failure - Structure of sodium, potassium-adenosine triphosphatase (lambs, dogs)
** P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)
R01HL-22682-01 Structure and function of high density lipoprotein (human, rat)
** R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)
R01HL-23233-01 Pulmonary artery intermediate filament structure (cattle)
** N01HR-52957-02 Composition of respiratory mucus (human, swine)
N01HR-72920-01 Identify and quantify cystic fibrosis factors (human)

CHEMICAL STRUCTURE OF CARBOHYDRATES

SEE CARBOHYORATES STRUCTURE

CHEMICAL STRUCTURE OF HEMOPROTEINS

SEE HEMOPROTEINS STRUCTURE

CHEMICAL STRUCTURE OF PORPHYRINS

SEE PORPHYRINS STRUCTURE

CHEMICAL SYNTHESIS AND PRODUCTION

SEE ALSO BIOLOGICAL PREPARATIONS ANO STANOAROIZATION
SEE ALSO ORUGS SYNTHESIS ANO PROOUCTION
SEE ALSO ENZYME RECONSTITUTION

P01HL-06285-18 0215 Cardiovascular-respiratory physiology and biochemistry - Conformation of biopolymers
P01HL-08214-15 0027 Chemical and biological properties of lipids - Biological functions diol lipids (swine, rats, plants)
** R01HL-11418-09 Poly-diaminophosphazenes
R01HL-12395-10 X-ray study of oxygen-carrying cobalt complexes
P01HL-12738-10 0114 Physiologic pharmacology and its clinical applications - Receptor specificites and metabolism of neurohypophysial hormones (rats)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
** R01HL-13160-08 Human thrombin (also cattle)
** R01HL-13412-17 Synthetic oxygen carriers
R01HL-13581-11 Reactions of oxygen with heme proteins
** R01HL-13587-06 Synthesis of renin inhibitors and analog phosphatides (rats)
R01HL-14508-10 Structure and function of respiratory hemoproteins
P50HL-15062-07 0021 Study of lipoproteins, artery wall, and atherosclerosis - Core laboratories
** P01HL-15195-04 0001 Program project in biological materials - Oesign and synthesis
P01HL-15195-04 0003 Program project in biological materials - Mechanical evaluation and fabrication
R01HL-15376-06 Intermediary metabolism of sterols (mice)
R01HL-15640-06 Thermodynamic studies on model oxygen carriers
P01HL-16251-06 0001 Membrane-bound enzymes in heart and other tissues - Structure of covalently bound flavins (bacteria, yeast, mammals)
R01HL-16346-09 Enzyme assay for blood clotting (human)
R01HL-16471-05 Cardioactive alloyohimbines and related indole alkaloids
** R01HL-16746-04 Oesign of ion-selective molecules
R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
P60HL-17269-04 0009 National heart and blood vessel research and demonstration center - Physical methods laboratory (high density lipoproteins)
** P60HL-17269-04 0022 National heart and blood vessel research and demonstration center - Medicinal chemistry (rabbit, dog, guinea pig)
P01HL-17382-05 0003 Chemical mediators of acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
R01HL-17921-04 Peroxy radicals to prostaglandins in vessels and lung
R01HL-18027-03 New vasoactive factors and their role in hypertension (human, dogs, rats)
** R01HL-18118-04 Total synthesis of cardiac aglycones
R01HL-18226-04 Mechanism of oxygen supply to tissue (human, animals)
R01HL-18253-03 Structure of the palytoxins
** P01HL-18577-03 0005 Lipoproteins--Cell surface interactions - Chemical synthesis of apolipoproteins and apoliprotein fragments
** R01HL-18679-04 Synthetic protease inhibitors

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
M P01HL-19259-03 Digoxin-specific antibody in human therapy
** P01HL-19259-03 0001 Digoxin-specific antibody in human therapy Primary structure of monoclonal antibodies (rabbits)
** P01HL-19259-03 0002 Digoxin-specific antibody in human therapy - Chemical semi-synthesis of digoxin-specific antibody (rabbits)
** P01HL-19259-03 0003 Digoxin-specific antibody in human therapy Synthesis of digoxin-specific antibody in continuous cell culture (human, sheep)
** P01HL-19259-03 0004 Digoxin-specific antibody in human therapy - Digitalis-specific antibodies pharmacological studies (human, dogs, sheep)
R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R01HL-19517-03 Synthesis of inhibitors for the study of renal renin (dogs, monkeys)
P01HL-19717-02 0005 Response of the lung to injury - Studies on proteolysis and lung disease (human, animals)
R01HL-19795-03 Synthesis of anaphylatoxic and leucotactic peptides (human)
R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
R01HL-20220-03 Anaphylatoxins as inflammatory and chemotactic agents (guinea pig, rabbit, human)
P01HL-20993-02 0008 Population dynamics of arterial cells in atherogenesis - Angiotoxicity of cholesterol oxidation in atherogenesis (rabbits)
R01HL-20996-02 Structural and reactivity of iron and cobalt complexes
** R01HL-21769-01 Blood compatible benzamidine containing polymers
R01HL-21874-01 SRS-A-fts biosynthesis and action
P01HL-22163-01 9001 Surface thrombogenesis--Mechanisms and prevention - Polymers for studing blood-material interactions core
** R01HL-22252-01 Synthesis of labeled hemes for protein NMR studies
R01HL-22471-01 Biochemistry of prothrombin quick (human)
R01HL-22530-01 Active site studies on blood proteases (human)
** R01HL-22532-01 Inhibitors of cholesterol biosynthesis (rats, mice, yeast)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
R01HL-23120-01 Chelating agents as blood substitutes
** N01HV-42984-05 Interactions of modified biopolymers with blood (humans, rats)
** N01HV-72943-01 Prostaglandin and kallikrein kinin system antagonists
** N01HV-72944-02 Prostaglandin and kallikrein kinin antagonists
** N01HV-72945-03 Develop prostaglandin synthesis and receptor antagonists
** N01HV-72946-02 Development of kallikrein-Kinin system antagonists

CHEMICAL TRANSFER, ELECTRON TRANSPORT

P01HL-06312-17 0034 Surgical cardiology - Metabolic factors in cardiac function--Creatine phosphate depletion (animals)
P01HL-07896-15 0049 Environmental biomedical research program - Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
** P01HL-12157-11 0051 Functions and mechanisms of cell membrane ion transport - Electron transport in the red cell membrane (human, guinea pigs)
R01HL-12526-09 Raman spectra of heme proteins and related molecules
** R01HL-12576-10 Bioenergetics apparatus in heart mitochondria
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
** R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
R01HL-13652-08 Metal sites in metalloproteins (mushroom)
** R01HL-14461-08 Cardiac metabolism in heart failure (rats)
P50HL-15061-07 0012 Response of lung to injury - Hyperbaric oxygen, carbon monoxide, and ozone or peroxide toxicity (rats)
P01HL-15835-06 0013 Study of muscles related to heart disease - Cardiac bioenergetics (rats)
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
** R01HL-16087-05 Structural and dynamic study of model heme complexes (yeast)
P01HL-16251-06 0008 Membrane-bound enzymes in heart and other tissues - Iron-sulfur centers and phospholipids modulation of succinate dehydrogenase
R01HL-16686-04 Properties of cytochrome oxidase (cattle, bacteria)
** R01HL-17559-03 Structural elucidation of heart cytochrome-C oxidase
R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
R01HL-17828-04 Kinetic studies of hemerythrin reactions (marine worms)
R01HL-18272-03 Heart adenyl cyclase complex (beef heart)
** P01HL-18708-03 0003 Oxygen, energy and contractility in cardiac tissue Structural-functional studies on cytochrome c oxidase
R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
R01HL-19392-03 Spectroscopic studies of respiratory metalloproteins
R01HL-19488-03 Picosecond laser studies of heme proteins
R01HL-19936-02 Unsaturated fatty acid biosynthesis in the aorta (rats)
R01HL-20544-02 Integrated regulation of myocardial energy metabolism (rats, guinea pigs)
** R01HL-20658-01 Myocardial energy transport--Creative kinase (human, cattle, dog)
** R01HL-22050-01 Organization of succinic oxidase in heart
R01HL-22461-01 Cardiac tropomyosin and tropomyosin-action interactions (rabbit)
R01HL-22821-01 A routine screening analysis for myoglobinemia
** R01HL-22981-17 Membrane-associated functions in microorganisms (bacteria, protozoa)

CHEMICAL TRANSFER, HYDROGEN TRANSPORT

SEE ALSO BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS, HYDROGEN PUMP

P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)
P01HL-06285-18 0211 Cardiovascular-respiratory physiology and biochemistry - Purple membrane of Halobacteria
P01HL-11351-12 0024 Cellular and molecular mechanisms of myocardial function - Steady state and transient kinetics of frog myosin, S-1, and ATPase
** R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
** P01HL-19737-02 0008 Cellular and molecular aspects of respiratory physiology - Kinetics of movement of acid metabolites from cell to capillary blood (dogs)
P01HL-19737-02 0011 Cellular and molecular aspects of respiratory physiology - Chemical and metabolic factors on peripheral chemoreceptor activity (cats)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)

CHEMICALS (GENERAL), ELEMENTS, TRACE ELEMENTS

SEE ALSO NUTRITION, DIETARY CONSTITUENTS, DIETARY TRACE ELEMENTS AND MINERALS

P01HL-08974-14 0005 Natural and experimental atherosclerosis - Atherosclerosis, coronary heart disease and sudden death (human)
R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
R01HL-14131-18 Abnormal hemoglobin syndromes (human)
** P60HL-16008-06 0015 Wayne State University comprehensive sickle cell center - Trace elements in sickle cell disease (human)
** R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)

CHEMICALS (GENERAL), MINERALS (GENERAL)

SEE ALSO CALCIUM (MINERAL) BALANCE (METABOLISM)
SEE ALSO SILICATES

R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
R01HL-17543-03 0002 Magnetic tracers for diagnosis of lung disease - Magnetite as an index of asbestos exposure (human)

CHEMICALS (GENERAL), ORGANIC COMPOUNDS (GENERAL)

** R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)
R23HL-19605-01 Lipid requirement of the lung mono-oxygenase system (rabbits)
R01HL-22035-01 Molecular modification of heparin by chemical means (sheep)

CHEMISTRY (GENERAL)*

SEE ALSO BIOCHEMISTRY (GENERAL)*
SEE ALSO BIOPHYSICAL CHEMISTRY (GENERAL)*
SEE ALSO HISTOCHEMISTRY AND CYTOCHEMISTRY (GENERAL)*
SEE ALSO IMMUNOCHEMISTRY
SEE ALSO MEDICINAL CHEMISTRY STUDY SECTION
SEE ALSO MICROBIAL CHEMISTRY STUDY SECTION
SEE ALSO MOLECULAR BIOLOGY
SEE ALSO NEUROCHEMISTRY
SEE ALSO PATHOBIOLOGICAL CHEMISTRY STUDY SECTION
SEE ALSO PHOTOCHEMISTRY
SEE ALSO PHYSIOLOGICAL CHEMISTRY STUDY SECTION

** P01HL-20993-02 0012 Population dynamics of arterial cells in atherogenesis - Chemistry laboratory--Core

CHEMISTRY, ANALYTICAL

SEE ALSO INDICATORS AND REAGENTS

P01HL-09011-15 0005 A research and resource program in blood Characterization of hepatitis B antigen and the cause of serum hepatitis (human)
** R01HL-11119-17 Amino acid analyzer for biochemical research
R01HL-14938-06 Contractile proteins of heart muscle (dogs, rabbits)
P50HL-15062-07 0021 Study of lipoproteins, artery wall, and atherosclerosis Core laboratories
R01HL-15679-06 Heart and smooth muscle contractile protein (swine, cattle, rabbits, chickens)
R01HL-15892-05 Inhibitors of proteinases (human, cattle, swine)
R01HL-18554-03 Taurine metabolism in mammalian heart (rodents, cattle, swine)
R01HL-20547-02 Glycoproteins in pulmonary alveolar proteinosis (human)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
N01HR-72921-01 Cystic fibrosis factor identification and quantification (human)
** N01HR-72922-01 Cystic fibrosis factor identication and quantification (human)

CHEMISTRY, ANALYTICAL METHODS*

SEE ALSO ELECTRODES, ENZYME*
SEE ALSO RESPIRATORY GAS ANALYZERS*

** P01HL-14414-07 9001 Environmental influences on cardiorespiratory and cellular functions - Laboratory core facility
R01HL-21303-02 Collagen synthesis by cultured human vascular cells
R01HL-21763-09 Heparin and heparan sulfate--Structure and activity (beef, hog)
** R01HL-22355-01 Purification, structure and function of factor VIII (human)

CHEMISTRY, ANALYTICAL METHODS, CRYSTALLOGRAPHY*

SEE ALSO CHEMICAL REACTIONS, SUBSTITUTION, ISOMORPHOUS

R01HL-08299-16 Molecular biology of hemerythrin and hemocyanin (invertebrates)
R01HL-12395-10 X-ray study of oxygen-carrying cobalt complexes
P60HL-15158-07 0014 Comprehensive sickle cell center - Mechanism of sickling in human and deer hemoglobins
R01HL-15284-06 Hemoglobin and myoglobin kinetic studies (human, animals)
R01HL-15378-06 Ultrastructure of antihypertensive prostaglandins
R01HL-15627-06 X-ray and chemical studies of metalloporphyrins
N01HV-32919-12 Material development and testing heparinization processes

CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY*

SEE ALSO ELECTRONIC SPECTRA
SEE ALSO OPTICS, DICHROISM CIRCULAR*
SEE ALSO OPTICS, INTERFEROMETRY*
SEE ALSO PHYSICAL SEPARATION, ULTRACENTRIFUGATION, ANALYTICAL*

P01HL-21016-02 0014 Sickle cell anemia and other hemoglobinopathies - Human hemoglobin mutants with abnormal oxygen binding

CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, ATOMIC ABSORPTION*

** P01HL-20592-02 0014 Cell biology of cardiac and skeletal muscle - Core laboratory

CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, ELECTRON PROBE*

** R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
** P01HL-11351-12 0018 Cellular and molecular mechanisms of myocardial function - Quantitative localization of electrolytes in cardiac tissue
** P01HL-14388-07 9003 Regulation of the circulation in pathological states - Electron probe projects
** P01HL-16833-04 0008 Hemoglobin and red cell system in hemoglobinopathies - Membrane associated phenomena in SS disease
R01HL-18798-04 0002 Nervous and ionic factors in sudden cardiac death - Electron microprobe, ultrastructure analysis of ischemic myocardium (dog, rabbit)
** R01HL-22281-01 Microprobe analysis and metabolite levels of ischemic mycardium (dogs)

CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, ESR*

R01HL-12760-09 Surface studies of membrane lipids and proteins
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
** P60HL-15168-07 0009 Comprehensive sickle cell disease center - Spin-label study of sickling (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P60HL-17269-04 0046 National heart and blood vessel research and demonstration center - Nuclear magnetic resonance laboratory
R01HL-18551-03 Spectrin, actin, lipid and red cell membrane structure
** R01HL-19065-02 Molecular oxygen in biological fluids
** P01HL-21016-02 0015 Sickle cell anemia and other hemoglobinopathies - EPR study of NO derivatives of Hb Beth Israel (human)

CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, FLUORESCENCE*

R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
** R01HL-18163-04 Red cell membrane effects due to oxidizing agents

CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, INFRARED*

** P01HL-08214-15 0010 Chemical and biological properties of lipids - Infrared spectroscopy of lipids
N01HR-72920-01 Identify and quantify cystic fibrosis factors (human)

CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, LASER*

** R01HL-20192-02 Ciliary activity of the lung studied by laser scattering

CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, MASS*

P01HL-07896-15 0036 Environmental biomedical research program - Respiratory heat loss in deep diving (infants, dogs)
P01HL-08214-15 0006 Chemical and biological properties of lipids - Analysis and properties of lipids
** P01HL-08214-15 0047 Chemical and biological properties of lipids - High resolution liquid chromatography for the analysis of biological substances
** P60HL-17269-04 0016 National heart and blood vessel research and demonstration center - New analytical methodology for atherosclerosis studies
** P01HL-19737-02 0012 Cellular and molecular aspects of respiratory physiology - Mass spectrometer facility
** R01HL-20607-02 Tissue analysis by mass spectrometer (dogs)

CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, NMR*

** N01HI-02216-10 To develop biological flow NMR concept (human, mammals non human)
** P01HL-08214-15 0040 Chemical and biological properties of lipids - Nuclear magnetic resonance studies of lipids
P01HL-11310-12 0101 Mechanisms of cardiovascular disease - Molecular pathogenesis of vascular disease
R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-14680-07 Specific enrichment of myoglobins for carbon 13 NMR (catacea)
R01HL-16746-04 Oesign of ion-selective molecules
** P60HL-17269-04 0046 National heart and blood vessel research and demonstration center - Nuclear magnetic resonance laboratory
R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
** R01HL-19065-02 Molecular oxygen in biological fluids
** R01HL-19481-03 High-field NMR studies of respiratory proteins (human, horse, fish, microbes)
** R01HL-21706-02 Nuclear magnetic resonance and myocardial ischemia (rats)
** R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)

CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, PHOTOELECTRON*

R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)

CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, RAMAN*

R01HL-12526-09 Raman spectra of heme proteins and related molecules

CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, X-RAY*

R01HL-21371-02 Energy loss microanalysis of myocardial cations

CHEMISTRY, ANALYTICAL METHODS, SPECTROPHOTOFLUOROMETRY*

R01HL-22402-01 Heparin-biophysical, chemical and biological aspects (mice, human)

CHEMISTRY, ANALYTICAL METHODS, TEMPERATURE JUMP*

P01HL-11307-12 0003 Biophysical studies in pediatric cardiology - Cellular biophysics (animals)
P01HL-11307-12 9002 Biophysical studies in pediatric cardiology - Biomedical engineering
** R01HL-19848-02 Contractile activation by rapid temperature jumps (frogs)

CHEMISTRY, ANALYTICAL METHODS, X-RAY STRUCTURE ANALYSIS*

R01HL-03424-21 Formation and properties of prothrombin derivatives (human, animals)
P01HL-06285-18 0212 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gap junction (bovine)
P01HL-06285-18 0213 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gas vacuole membrane (Halobacterium)
** P50HL-15092-07 0001 Immune and fibrotic response to occupational environments - X-ray diffraction study--Dust exposure in asbestos cement products manufacturing
P60HL-15158-07 0014 Comprehensive sickle cell center - Mechanism of sickling in human and deer hemoglobins
** P01HL-17419-04 0007 Studies on mechanisms of hemostasis - Structural analysis of ordered forms of fibrinogen (human, cattle)
R01HL-18309-04 Oxygen transport--Hemoglobins with modified hemes (horse)
R01HL-18798-04 0002 Nervous and ionic factors in sudden cardiac death - Electron microprobe, ultrastructure analysis of ischemic myocardium (dog, rabbit)

CHEMISTRY, CLINICAL

** P01HL-08974-14 9001 Natural and experimental atherosclerosis - Core--Lipid chemistry laboratory
P01HL-12373-10 0018 Cardiopulmonary physiology and pathophysiology - Biochemistry laboratory
** P50HL-14164-07 0040 A/S SCOR--Comparative and experimental atherosclerosis - Core angiochemistry laboratory
** P50HL-18318-03 0003 Pathogenesis and complications of hypertension - Core biochemical laboratory
R01HL-19065-02 Molecular oxygen in biological fluids
** R01HL-20500-02 Oiabetic human brain microvascular basement membrane (human)
R01HL-22265-02 Isozymes of heart glutamate aspartate transaminase (swine, ducks)
N01HR-72920-01 Identify and quantify cystic fibrosis factors (human)

CHEMISTRY, CLINICAL, BLOOD

P01HL-06285-18 0164 Cardiovascular-respiratory physiology and biochemistry - CPK MB isoenzyme concentration to quantify infarct size (human, animals)
P01HL-08805-15 0006 Regulation of ventilation and pulmonary circulation - Adaptation of lungfish--Estivation
** R01HL-10160-13 Origins of atherosclerosis (human)
** R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
** P50HL-14141-05 0008 SCOR for atherosclerosis in childhood - Core laboratory
P50HL-14147-08 0017 Specialized center of research in thrombosis - Core coagulation laboratory (human)
P50HL-14159-08 0022 Specialized center of research in hypertension - Core laboratory
P50HL-14164-07 0034 A/S SCOR--Comparative and experimental atherosclerosis - Core lipid analytic laboratory
P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
P50HL-14230-07 9001 A/S SCOR--Lipids, atherosclerosis and thrombosis - Core lipid laboratory
P50HL-14236-05 0012 Prevention of premature arteriosclerosis - Automated lipid analysis
P50HL-14237-07 0007 Support for arteriosclerosis center - Core laboratories
P50HL-15062-07 0013 Study of lipoproteins, artery wall, and atherosclerosis - Radioimmunoassay of apolipoproteins (human, monkeys)
P50HL-15062-07 0021 Study of lipoproteins, artery wall, and atherosclerosis - Core laboratories
** P60HL-15158-07 0008 Comprehensive sickle cell center - Core laboratory of the center
P60HL-15169-05 0019 Support for center for sickle cell disease - Central screening and reference laboratory
P60HL-15170-05 0002 Support for center for sickle cell anemia - Adult services--Testing programs
** R01HL-15308-07 Assays for peptides of lipoproteins (human)
P60HL-15999-05 0004 Miami comprehensive sickle cell center - Education, screening and counseling
** P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)
R01HL-16580-04 Mathematical models for studying sickle-cell disease
P50HL-17646-04 0005 Study of ischemic heart disease - Biochemical markers and mediators of myocardial ischemic injury
P50HL-17646-04 0006 Study of ischemic heart disease - Mathematical models for predicting infarct size using CPK and other markers
** P50HL-17665-04 0008 Study of ischemic heart disease - Core laboratory--CPK isoenzyme measurement and myocardial necrosis evaluation
** P50HL-17667-04 0040 Study of ischemic heart disease - Core biochemistry--Cardiac metabolism (human)
P50HL-17667-04 0043 Study of ischemic heart disease - Quantitation of myocardial infarct size by serial enzyme measurements (human)
P50HL-17670-04 0017 Study of ischemic heart disease - Core enzymology laboratory (human)
** P50HL-17682-04 0010 Study of ischemic heart disease - Core clinical enzyme laboratory (human, mice, dogs, rats)
R01HL-18163-04 Red cell membrane effects due to oxidizing agents
P50HL-18318-03 0003 Pathogenesis and complications of hypertension - Core biochemical laboratory
** P50HL-18323-04 0033 SCOR hypertension center - Core laboratory--Renin, aldosterone and bradykinin methodology
** R01HL-18561-03 Radioimmunoassay of angiotensinogen (human)
** R01HL-18567-03 A routine diagnostic test for minimal heart damage (human, rat)
** P50HL-19157-02 0008 Studies in cystic fibrosis and bronchiolitis - Serum proteins in cystic fibrosis (human)
R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
P50HL-19362-02 0013 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Lipid biochemistry (baboons)
** R01HL-19973-01 Non-invasive sickled cell monitor development (human)
R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)
** R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
R01HL-20539-03 Blood glucose, hemoglobin A1c, and diabetic vascular disease (human)
R01HL-20712-02 Characterization of the B proteins of serum lipoproteins (human)
R01HL-20807-02 Oetection of familial hypercholesterolemia (human)
R01HL-20954-02 Hyperlipoproteinemia (rats, human)
P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
P50HL-21006-02 0002 Specialized center of research in arteriosclerosis - Turnover and metabolism of cholesterol in man
R01HL-21461-01 Heme group protein interactions in hemoproteins
R01HL-21791-01 Precipitation of proteins with poly (ethylene glycol) (human)
R01HL-22265-02 Isozymes of heart glutamate aspartate transaminase (swine, ducks)
** R01HL-22402-01 Heparin-biophysical, chemical and biological aspects (mice, human)
** R01HL-22474-01 Cholesterol metabolism and atherosclerosis (rats, human, rabbits)
** R01HL-22567-01 Validation of a cholesterol absorption method in man
R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)
** R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)
** R01HL-22847-01 Test for adherence to diets rich in linoleic acid
R01HL-22859-01 Effect of carbon monoxide on the developing heart (rats)
N01HV-32933-07 Hypertension detection and follow-up program central laboratory (human)

CHEMISTRY, CLINICAL, FECES ANALYSIS*

P50HL-19362-02 0013 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Lipid biochemistry (baboons)

CHEMISTRY, CLINICAL, URINE CHEMICAL ANALYSIS

P01HL-06835-17 0050 Cardiovascular disease - 18-Hydroxylase block in the 17 alpha-hydroxylase deficiency syndrome (human)
P50HL-14159-08 0022 Specialized center of research in hypertension - Core laboratory
R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)
P50HL-18318-03 0003 Pathogenesis and complications of hypertension - Core biochemical laboratory
P50HL-18323-04 0033 SCOR hypertension center - Core laboratory--Renin, aldosterone and bradykinin methodology

CHEMISTRY, ELECTROCHEMISTRY

SEE ALSO ELECTRICAL MEASUREMENTS, POLAROGRAPHY*
SEE ALSO ELECTRICAL MEASUREMENTS, POTENTIOMETRY*
SEE ALSO ELECTROOES, ENZYME*
SEE ALSO MOLECULAR POLARITY
SEE ALSO PHYSICAL SEPARATION, ELECTROFOCUSING*
SEE ALSO PHYSICAL SEPARATION, ELECTROPHORESIS*
P50HL-14147-08 0013 Specialized center of research in thrombosis - Mathematical models of blood coagulation kinetics
** P50HL-14147-08 0014 Specialized center of research in thrombosis - Theoretical models for electrostatic effects in blood clot formation
** P50HL-14147-08 0015 Specialized center of research in thrombosis - Charge related properties of phospholipid surfaces in monolayers and vesicles
** P01HL-14388-07 0168 Regulation of the circulation in pathological states - Ionic basis of depolarization (rats, tissue culture)
R01HL-15640-06 Thermodynamic studies on model oxygen carriers
P01HL-20592-02 0003 Cell biology of cardiac and skeletal muscle - Cellular magnesium and anion activities in ion-specific microelectrodes (frogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)
R01HL-21179-01 Volume regulation Role of the membrane potential (amphiuma)
R01HL-22821-01 A routine screening analysis for myoglobinemia
R01HL-23183-01 Voltage dependent conductance in membranes
N01HV-52907-04 Interactions of platelets with collagens (human, mammals)

CHEMISTRY, QUANTUM (GENERAL)

SEE ALSO ELECTRONIC SPECTRA
R01HL-19488-03 Picosecond laser studies of heme proteins
R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin
R01HL-23392-01 Membrane binding and transport of calcium and potassium ionophores

CHEMISTRY, STOICHIOMETRY

P01HL-06664-17 0040 Cardiopulmonary function in remediable vascular disease - The coupling of ion transport to metabolism (toads)
R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
P01HL-13262-07 0012 Arterial wall in atherosclerosis - Characterization of connective tissue components (animals)
P50HL-14164-07 0035 A/S SCOR--Comparative and experimental atherosclerosis - Lipid metabolism--Interaction with arterial metabolism (monkey, pigeon)
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
P50HL-14217-08 0062 Specialized center of research in thrombosis - Coagulation section--Factor VIII and Factor XII (human, cattle)
P50HL-14236-05 0008 Prevention of premature arteriosclerosis - Lipoproteins of cell membranes (human)
P01HL-14388-07 0175 Regulation of the circulation in pathological states - Functional studies of selected proteins from cardiac muscle
R01HL-15648-06 Lipid metabolism--Transport by lateral diffusion (human, rabbit, cattle)
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
P01HL-16251-06 0008 Membrane-bound enzymes in heart and other tissues - Iron-sulfur centers and phospholipids modulation of succinate dehydrogenase
R01HL-16318-21 Biochemistry and pharmacology of Na-K transport
R01HL-16474-05 Antibiotic-ion interactions (model membranes)
R01HL-16611-04 Digitalis-receptor of the heart (guinea pigs, rats)
R01HL-16746-04 Design of ion-selective molecules
R01HL-19676-02 Physico-chemical interactions in pulmonary surfactant
R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
R23HL-21663-01 Regulation of collagen biosynthesis (chick, embryo)
R01HL-22050-01 Organization of succinic oxidase in heart
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
R01HL-22550-02 Genetic cardiomyopathies in salamanders and hamsters
R01HL-22570-01 Interactions of sterols in biological systems (human)
P01HL-22619-01 0011 Cellular mechanisms of heart failure - Reaction of lipoproteins and apolipoproteins with lipoprotein lipase (cattle)
R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)

CHEMISTRY, THERMODYNAMICS (GENERAL)

P01HL-06285-18 0195 Cardiovascular-respiratory physiology and biochemistry - Thyroid thermogenesis and sodium transport (rats)
P01HL-06285-18 0210 Cardiovascular-respiratory physiology and biochemistry - Physicochemical and enzymatic studies of lung surfactant (Halobacterium)
P01HL-06314-17 0053 Immunologic mechanisms in cardiovascular disease - Cellular functions controlled by cyclic GMP (human, mice, guinea pigs)
R01HL-07451-16 Hemoglobin S gelation and hemoglobin allostery (human)
P01HL-07896-15 0009 Environmental biomedical research program - Decompression sickness and computation of safe diving tables (human, animals)
R01HL-10036-13 Biology of red cell antigen-antibody reaction (human)
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
P01HL-11351-12 0006 Cellular and molecular mechanisms of myocardial function - Molecular physiology and energetics of muscle (frogs)
** P01HL-11351-12 0021 Cellular and molecular mechanisms of myocardial function Muscle energetics (frogs)
** P01HL-11351-12 0022 Cellular and molecular mechanisms of myocardial function Energetic sequelae of shortening Myothermal and biochemical (frogs)
** P01HL-11351-12 0023 Cellular and molecular mechanisms of myocardial function Energetics of mammalian muscle (rats)
** P01HL-11351-12 0024 Cellular and molecular mechanisms of myocardial function Steady state and transient kinetics of frog myosin, S-1, and ATPase
P01HL-12157-11 0038 Functions and mechanisms of cell membrane ion transport Mechanisms and interactions of gases and ions with bilayer membranes (human)
R01HL-12256-15 Polymerization of sickle-cell hemoglobin (human)
R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
R01HL-13035-08 Heart mitochondrial malate dehydrogenase regulation
R01HL-13157-09 Molecular oxygen carriers--Synthesis, structure, bonding
R01HL-13164-07 Interaction of the alpha and beta chains of human hemoglobin
** R01HL-15640-06 Thermodynamic studies on model oxygen carriers
R01HL-16474-05 Antibiotic-ion interactions (model membranes)
P01HL-16683-04 0002 Function and growth of cardiac and skeletal muscle Myosin, actin, ATP, interaction in solution
R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
P01HL-16833-04 0002 Hemoglobin and red cell system in hemoglobinopathies - Polymerization and gel formation in solutions of hemoglobin A and S (human)
P01HL-16833-04 0006 Hemoglobin and red cell system in hemoglobinopathies - Role of water in function of hemoglobin and myoglobin (human)
R01HL-17559-03 Structural elucidation of heart cytochrome-C oxidase
** R01HL-17592-03 Activation and contraction heat in enlarged hearts (rabbits)
R01HL-17878-04 Structural studies of the human erythrocyte membrane
R01HL-18048-04 Dynamics of artificial and biological membranes (human)
R01HL-18441-03 Guidelines for polymers acting as elastin substitutes
P01HL-18577-03 0003 Lipoproteins--Cell surface interactions - Mechanism of lipid exchange in lipoproteins and cell membranes
R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
P01HL-18708-03 0003 Oxygen, energy and contractility in cardiac tissue - Structural-functional studies on cytochrome c oxidase
P01HL-18708-03 0005 Oxygen, energy and contractility in cardiac tissue - Cytosolic calcium homeostasis and bioenergetics of cardiac tissue (animals)
** R01HL-18933-03 Energy output and efficiency of left ventricle (dog)
R01HL-19459-03 Dynamics of atherogenesis and lipoprotein formation (human, rabbit)
** P01HL-20984-02 0002 Cellular mechanisms in cardiac hypertrophy - Thermodynamic, fluorescence, chemical modification of hypertrophied heart myosin
P01HL-21016-02 0004 Sickle cell anemia and other hemoglobinopathies - Kinetics of sickling
R01HL-21461-01 Heme group protein interactions in hemoproteins
R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin
R01HL-22325-01 Thermodynamics in respiratory protein binding (human, trout)
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
R01HL-22570-01 Interactions of sterols in biological systems (human)
P01HL-22619-01 0011 Cellular mechanisms of heart failure - Reaction of lipoproteins and apolipoproteins with lipoprotein lipase (cattle)
R01HL-22682-01 Structure and function of high density lipoprotein (human, rat)

CHEMORECEPTORS

SEE SENSE ORGANS, CHEMORECEPTORS

CHEMOTACTIC FACTORS (COMPLEMENT)

SEE IMMUNOLOGY, COMPLEMENT, CHEMOTACTIC FACTORS

CHEMOTACTIC FACTORS (LEUKOTAXIC FACTOR)

SEE HYPERSENSITIVITY, LYMPHOKINES, LEUKOTAXIC FACTOR

CHEMOTAXIS

SEE ENVIRONMENT, ORIENTATION, CHEMOTAXIS

CHEMOTHERAPY

SEE DRUGS, CHEMOTHERAPY

CHEMOTHERAPY, BLOOD DISORDERS

SEE BLOOD AND RE DISORDERS CHEMOTHERAPY

CHEMOTHERAPY, CANCER

SEE NEOPLASTIC THERAPY, CANCER CHEMOTHERAPY

CHEMOTHERAPY, CARDIOVASCULAR DISORDERS

SEE CARDIOVASCULAR DISORDERS CHEMOTHERAPY

CHEMOTHERAPY, COMMUNICABLE DISEASES

SEE COMMUNICABLE DISEASES CHEMOTHERAPY

CHEMOTHERAPY, CONNECTIVE TISSUE DISORDERS

SEE CONNECTIVE TISSUE DISORDERS CHEMOTHERAPY

CHEMOTHERAPY, ENDOCRINE DISORDERS

SEE ENDOCRINOLOGY, ENDOCRINE DISORDERS CHEMOTHERAPY

CHEMOTHERAPY, GASTROINTESTINAL DISORDERS

SEE GASTROINTESTINAL DISORDERS CHEMOTHERAPY

CHEMOTHERAPY, HEART DISORDERS

SEE HEART DISORDERS CHEMOTHERAPY

CHEMOTHERAPY, IMMUNOLOGICAL DISORDERS

SEE IMMUNOPATHOLOGY, CHEMOTHERAPY

CHEMOTHERAPY, KIDNEY DISORDERS

SEE KIDNEY DISORDERS CHEMOTHERAPY

CHEMOTHERAPY, LIVER DISORDERS

SEE LIVER DISORDERS CHEMOTHERAPY

CHEMOTHERAPY, MENTAL DISORDERS

SEE PSYCHOLOGY ABNORMAL, MENTAL DISORDERS CHEMOTHERAPY

CHEMOTHERAPY, METABOLIC DISORDERS

SEE METABOLIC DISORDERS CHEMOTHERAPY

CHEMOTHERAPY, NERVOUS DISORDERS

SEE NERVOUS DISORDERS CHEMOTHERAPY

CHEMOTHERAPY, NEUROMOTOR DISORDERS

SEE NEUROMOTOR DISORDERS CHEMOTHERAPY

CHEMOTHERAPY, NUTRITIONAL DISORDERS

SEE NUTRITIONAL DISORDERS CHEMOTHERAPY

CHEMOTHERAPY, PREGNANCY DISORDERS

SEE PREGNANCY DISORDERS CHEMOTHERAPY

CHEMOTHERAPY, REPRODUCTIVE SYSTEM DISORDERS

SEE REPRODUCTIVE SYSTEM DISORDERS CHEMOTHERAPY

CHEMOTHERAPY, RESPIRATORY DISORDERS

SEE RESPIRATORY DISORDERS CHEMOTHERAPY

CHENODEOXYCHOLIC ACID

SEE CHOLANATE SERIES, CHENODEOXYCHOLIC ACID

CHEST INJURIES

SEE INJURIES, CHEST

CHICK EMBRYO

SEE BIRDS, CHICK EMBRYO*

CHILD BEHAVIOR

SEE CHILD MENTAL DEVELOPMENT, CHILD BEHAVIOR

CHILD CARE PERSONNEL

SEE CHILD WELFARE, CHILD CARE PERSONNEL

CHILD DEVELOPMENT (NON-PSYCHOLOGICAL)

SEE ALSO CHILD MENTAL DEVELOPMENT
SEE ALSO EMBRYOLOGY (HUMAN) AND DEVELOPMENT STUDY SECTION
P50HL-14136-07 0009 Pulmonary SCOR--Airways obstructive diseases - Tuscon epidemiological study of airways obstructive disease (human)
P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
** P50HL-14141-05 0007 SCOR for atherosclerosis in childhood - Relation of lipid valves to sexual maturation at puberty (human)
** P50HL-14214-07 0013 Newborn lung center for hyaline membrane disease - Developmental outcome of children who had HMD as infants
P60HL-15158-07 0004 Comprehensive sickle cell center - Expression of abnormal hemoglobin synthesis in the neonate and young child
P60HL-15160-07 0009 Center for sickle cell disease - Natural history of sickle cell disease (human)
R01HL-15526-05 Respiratory mechanics in children
R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
R01HL-17993-04 0009 Ventricular dynamics from surgically inserted markers - Cardiovascular visualization in surgery of growing heart (dogs)
** P50HL-19171-02 0001 Pulmonary SCOR--Lung injury by childhood infections - Longitudinal study--Respiratory infections and lung growth in normal children
P50HL-19187-02 0007 Pediatric pulmonary SCOR--Hyaline membrane disease - Follow-up study--Infants with hyaline membrane disease (human)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-20124-02 Coronary risk factors (human)
N01HR-72973-01 Health education and attitudes of family toward asthmatic children

CHILD DEVELOPMENT, PUBERTY

** P50HL-14141-05 0007 SCOR for atherosclerosis in childhood - Relation of lipid valves to sexual maturation at puberty (human)
R01HL-18456-03 Cardiovascular follow-up of hypertensive adolescents

CHILD GUIDANCE (SERVICES)

SEE CHILO MENTAL HEALTH (SERVICES)

CHILD HEALTH CARE (SERVICES)

SEE ALSO HOSPITALS, NURSERY
** P50HL-14136-07 9006 Pulmonary SCOR--Airways obstructive diseases - Pediatric lung function core
P50HL-14214-07 0012 Newborn lung center for hyaline membrane disease - Pulmonary status of children who had HMO as infants
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
** P60HL-15158-07 0012 Comprehensive sickle cell center - Clinical services--Pediatric patients
P60HL-15158-07 0025 Comprehensive sickle cell center - Cardiovascular evaluation of children with sickle cell disease (human)
P60HL-15160-07 0017 Center for sickle cell disease - Oemonstration--Education, screening, counseling, patient care
P60HL-15162-07 0001 Comprehensive sickle cell center - Core program--Patient care
P60HL-15162-07 0010 Comprehensive sickle cell center - Core program--Community outreach and education program
P60HL-15168-07 0002 Comprehensive sickle cell disease center - Patient care
P60HL-15168-07 0010 Comprehensive sickle cell disease center - Sickle cell center project (children)
** P60HL-15170-05 0006 Support for center for sickle cell anemia - Pediatric services--Comprehensive clinic
** P60HL-15170-05 0007 Support for center for sickle cell anemia - Pediatric services--Screening program
M P60HL-15996-06 Cincinnati comprehensive sickle cell center
P60HL-15996-06 0003 Cincinnati comprehensive sickle cell center - Prophylactic penicillin in treatment of sickle cell anemia (human)
** P60HL-15996-06 0005 Cincinnati comprehensive sickle cell center - Factors precipitating crises (human)
P60HL-15996-06 0006 Cincinnati comprehensive sickle cell center - Education
P60HL-15996-06 0007 Cincinnati comprehensive sickle cell center - Screening and counseling
** P60HL-15996-06 0008 Cincinnati comprehensive sickle cell center - Patient care (children, adults)
P60HL-15999-05 0005 Miami comprehensive sickle cell center - Sickle cell clinic
** P60HL-16008-06 0001 Wayne State University comprehensive sickle cell center - Patient care system (children, adults)
** P50HL-19157-02 0002 Studies in cystic fibrosis and bronchiolitis - Clinical core
M P50HL-19171-02 Pulmonary SCOR--Lung injury by childhood infections
P50HL-19171-02 0001 Pulmonary SCOR--Lung injury by childhood infections - Longitudinal study--Respiratory infections and lung growth in normal children
P50HL-19171-02 0005 Pulmonary SCOR--Lung injury by childhood infections - Chronic respiratory disease of children in North Carolina
P50HL-19171-02 0011 Pulmonary SCOR--Lung injury by childhood infections - Clinical support core
P50HL-19187-02 0007 Pediatric pulmonary SCOR--Hyaline membrane disease - Follow-up study--Infants with hyaline membrane disease (human)
** P50HL-19190-02 0002 Pulmonary SCOR--Pathophysiology, management of IROS - Core--Oemonstration and dissemination
R01HL-20351-02 A self-calibrating in vivo blood gas monitor (dogs, infants)
** P60HL-20985-01 0009 Northern California sickle cell center - Patient services (children, adults)
R01HL-22636-01 Newborn lung function during mechanical ventilation (human)
** N01HR-72972-01 Self-management for asthmatic children

CHILD MENTAL DEVELOPMENT

SEE ALSO INFORMATION-COMMUNICATION BEHAVIOR, LANGUAGE OEVELOPMENT
SEE ALSO PSYCHOLOGY EOUCATIONAL (GENERAL)
** P50HL-14214-07 0013 Newborn lung center for hyaline membrane disease - Oevelopmental outcome of children who had HMO as infants
P50HL-14218-07 0015 Pulmonary SCOR--Newborn lung center - Long term follow-up of infants surviving ROS--Neurological outcome (human)
P60HL-15160-07 0009 Center for sickle cell disease - Natural history of sickle cell disease (human)
** P50HL-19185-02 0011 Pulmonary SCOR--Neonatal respiratory distress syndromes - Complications and sequelae of neonatal respiratory distress (human)
P50HL-19187-02 0007 Pediatric pulmonary SCOR--Hyaline membrane disease - Follow-up study--Infants with hyaline membrane disease (human)

CHILD MENTAL DEVELOPMENT, CHILD BEHAVIOR

P60HL-15996-06 0004 Cincinnati comprehensive sickle cell center - School adjustment of sickle cell patients
** N01HR-72973-01 Health education and attitudes of family toward asthmatic children
** N01HR-72974-01 Self-management systems for asthmatic children

CHILD MENTAL HEALTH (SERVICES)

SEE ALSO MENTAL HEALTH (SERVICES), YOUTH
R01HL-22021-01 Asthma in families-- Behavior analysis of family interaction pattern

CHILD MORTALITY

SEE CHILOREN, INFANT ANO CHILO MORTALITY

CHILD REARING

SEE FAMILY, CHILO REARING

CHILD WELFARE, CHILD CARE PERSONNEL

** P60HL-15170-05 0008 Support for center for sickle cell anemia - Pediatric services--Education program

CHILDBIRTH

SEE PREGNANCY, BIRTH

CHILDREN

SEE ALSO FAMILY
R01HL-01486-23 Quantitative study of T-wave mechanisms (human, rabbits, dogs, chickens)
P01HL-06285-18 0151 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in diabetic and glucose intolerant children
P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
P01HL-06296-18 0003 Cardiovascular and pulmonary adaptation to stress - Human exercise studies (human, dogs)
P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
R01HL-07605-16 Congenital heart disease research program (human, dogs)
P01HL-07896-15 0021 Environmental biomedical research program - Liquid breathing and lung lavage (human)
P01HL-09011-15 0018 A research and resource program in blood - Hepatitis B in normal populations--Epidemiology, risk factors and transmission
R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
M P01HL-10436-13 A multidisciplinary study of congenital heart disease
** P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
** P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
** P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
P01HL-10436-13 0009 A multidisciplinary study of congenital heart disease - Pathophysiology and morphogenesis of congenital heart disease (human)
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
M P01HL-11307-12 Biophysical studies in pediatric cardiology
P01HL-11307-12 0002 Biophysical studies in pediatric cardiology - Cardiac extracellular electrophysiology (human, dog, chimpanzee)
P01HL-11307-12 9001 Biophysical studies in pediatric cardiology - Core support--computer science
P01HL-11307-12 9002 Biophysical studies in pediatric cardiology - Biomedical engineering
** P01HL-11310-12 0059 Mechanisms of cardiovascular disease - Contractility--Acute response to diogoxin after heart surgery (children)
** P01HL-11310-12 0066 Mechanisms of cardiovascular disease - Measurement of cardiac output by thermodilution (children)
** P01HL-11310-12 0076 Mechanisms of cardiovascular disease - Tratment of depressed cardiac output following heart surgery (children, puppies)
** P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
P01HL-12738-10 0127 Physiologic pharmacology and its clinical applications - Cardiac electrical activity (human, animals)
R01HL-13885-08 0005 Cystic fibrosis and pulmonary disease - Evaluation of lobar pulmonary lavage (human)
R01HL-13885-08 0006 Cystic fibrosis and pulmonary disease - Cell mediated immunity and Pseudomonas infections in cystic fibrosis (human)
R01HL-13885-08 9001 Cystic fibrosis and pulmonary disease - Pulmonary function core facility (infants, children)
R01HL-13885-08 9003 Cystic fibrosis and pulmonary disease - Fiberoptic bronchoscopy core facility (human, dogs, sheep)
** P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLO
** P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
M P50HL-14141-05 SCOR for atherosclerosis in childhood
P50HL-14141-05 0001 SCOR for atherosclerosis in childhood - Clinical implications (infants and children)
** P50HL-14230-07 0088 A/S SCOR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
P50HL-14237-07 0006 Support for arteriosclerosis center - Orug treatment of familial hyperbetalipoproteinemia (human)
R01HL-15047-06 Oigital computer analysis of the electrocardiogram (human)
M P50HL-15103-07 A/S SCOR--Early natural history of arteriosclerosis
** P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
P60HL-15158-07 0025 Comprehensive sickle cell center - Cardiovascular evaluation of children with sickle cell disease (human)
P60HL-15160-07 0014 Center for sickle cell disease - Replacement therapy of opsonin deficiency in sickle cell anemia (children)
P60HL-15169-05 0009 Support for center for sickle cell disease - Infections in sickle cell anemia (human)
P60HL-15169-05 0014 Support for center for sickle cell disease - Orthopaedic aspects of sickle cell disease (human)
P60HL-15169-05 0017 Support for center for sickle cell disease - Study of the natural history of sickle cell disease in the home
R01HL-15308-07 Assays for peptides of lipoproteins (human)
** R01HL-15526-05 Respiratory mechanics in children
R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
** P60HL-15996-06 0004 Cincinnati comprehensive sickle cell center - School adjustment of sickle cell patients
P60HL-16008-06 0001 Wayne State University comprehensive sickle cell center - Patient care system (children, adults)
P60HL-16008-06 0009 Wayne State University comprehensive sickle cell center - Natural history of sickle cell anemia (human)
P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling
P60HL-17269-04 0042 National heart and blood vessel research and demonstration center - Social-psychological smoking deterrents in schools
P01HL-17419-04 0003 Studies on mechanisms of hemostasis - Characterization of fibrinogen (human)
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
R01HL-17578-04 Exercise performance in children with heart disease
R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
** R01HL-17749-03 Adrenocortical factors in human hypertension (human)
** R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
R01HL-17931-04 Normalized body surface potential maps (children)
R01HL-18144-03 Preprocessor system for cardiograms (human)
** P50HL-18323-04 0037 SCOR hypertension center - Adrenocortical factors in childhood hypertension
** R01HL-18454-03 Maximal exercise testing in hyperlipidemic children
M P50HL-19157-02 Studies in cystic fibrosis and bronchiolitis
P50HL-19171-02 0003 Pulmonary SCOR--Lung injury by childhood infections - Natural history, host defense defects--Children with chronic pulmonary disease
P50HL-19171-02 0004 Pulmonary SCOR--Lung injury by childhood infections - Long-term effects of respiratory infections in early childhood
R01HL-19858-03 UMMC--Blood pressure precursors and consequences (human)
** R01HL-19870-03 Hypertensive progeny--Physical and humoral precursor search
R01HL-19898-03 Oesferrioxamine therapy in thalassemia (dogs, rats, children)
** R01HL-19922-03 Childhood determinants of blood pressure

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
R01HL-19946-03 Reduction of iron overload in thalassemia (children, rabbits, dogs, monkeys)
R01HL-19961-03 Management of hemosiderosis in thalassemia (children, adults)
R01HL-20000-03 Iron overload in homozygous beta thalassemia (human)
** R01HL-20005-03 Factors in blood pressure levels of children
R01HL-20314-02 Host defense against S pneumoniae in sickle cell disease (human)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)
** R01HL-20803-02 Intra-aortic balloon pumping (dogs, lambs, cats)
R01HL-21126-02 Exercise-induced bronchospasm in children
R23HL-21203-02 Effect of vasoactive agents on left-to-right shunts (lambs)
R01HL-21352-02 Community studies of obstructive lung disease (human)
R01HL-21444-02 Pulmonary mechanics during postnatal development (human)
** R01HL-21829-01 Etiology of obstructive airway disease in children (also monkeys)
R01HL-22021-01 Asthma in families-- Behavior analysis of family interaction pattern
** R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
P60HL-23282-01 0002 Comprehensive hospital/community sickle cell center - Clinical evaluation of alternate pathaway of compliment activation
N01HV-12156-10 Lipid research clinic
N01HV-12158-10 Establishment of a lipid research clinic
N01HV-22914-08 Establishment of a lipid research clinic

CHILDREN, ADOLESCENCE (12 TO 21 YRS)

SEE ALSO MENTAL HEALTH (SERVICES), YOUTH
P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
P50HL-14230-07 0088 A/S SCOR–Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children-- The Muscatine study
R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
R01HL-17578-04 Exercise performance in children with heart disease
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
** R01HL-18456-03 Cardiovascular follow-up of hypertensive adolescents
P01HL-18574-03 0001 Lipoprotein methodology and biomedical applications - Ultracentrifugal and electrophoretic lipoprotein methodology–Applications
** R01HL-19859-03 Epidemiological studies, precursors of hypertension (human)
** R01HL-19864-03 0001 Blood pressure of children and young adults - Follow up of students from Dormont, Pennsylvania
** R01HL-19869-03 Antecedents of adolescent hypertension (human)
** R01HL-19956-03 High blood pressure in the young (human)
R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
** R01HL-20034-03 Hypertension–Psychophysiologic and genetic precursors (human)
R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)
** R01HL-20655-02 Autonomic predictors of hypertension in children
R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
R01HL-21352-02 Community studies of obstructive lung disease (human)
** R01HL-21578-01 Effect of exercise upon the hypertensive adolescent
** R23HL-21917-01 Adrenal steroids in adolescent and adult hypertension
R01HL-22298-02 Origins of hypertension (human)
R01HL-22378-01 Psyco-somatic predictors of CHD in adolescence (human)
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
** R18HL-22934-01 Behavorial approaches to adolescent hypertension
R23HL-22947-01 Experimental systems to improve youth behavior (smoking prevention)
N01HV-12156-10 Lipid research clinic

CHILDREN, INFANT (BIRTH TO 1 YR)

P01HL-07896-15 0036 Environmental biomedical research program - Respiratory heat loss in deep diving (infants, dogs)
P01HL-09011-15 0023 A research and resource program in blood - Evaluation of hepatitis B vaccine in endemic settings (human)
P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
P01HL-11307-12 0002 Biophysical studies in pediatric cardiology Cardiac extracellular electrophysiology (human, dog, chimpanzee)
** P01HL-11310-12 0056 Mechanisms of cardiovascular disease Cardiac output response to blood pressure reduction in infants (human)
** P01HL-11310-12 0059 Mechanisms of cardiovascular disease Contractility-Acute response to digoxin after heart surgery (children)
** P01HL-11310-12 0061 Mechanisms of cardiovascular disease Computer simulation of transposition of great arteries in infants
** P01HL-11310-12 0066 Mechanisms of cardiovascular disease - Measurement of cardiac output by thermodilution (children)
P01HL-12738-10 0127 Physiologic pharmacology and its clinical applications Cardiac electrical activity (human, animals)
** P50HL-14136-07 0003 Pulmonary SCOR-Airways obstructive diseases - Acute pediatric respiratory disease and COLD
** P50HL-14136-07 9006 Pulmonary SCOR–Airways obstructive diseases - Pediatric lung function core
P50HL-14141-05 0001 SCOR for atherosclerosis in childhood - Clinical implications (infants and children)
P60HL-15169-05 0017 Support for center for sickle cell disease - Study of the natural history of sickle cell disease in the home
P60HL-15170-05 0007 Support for center for sickle cell anemia - Pediatric services–Screening program
** R01HL-15526-05 Respiratory mechanics in children
** R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
R01HL-17931-04 Normalized body surface potential maps (children)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
** R01HL-20803-02 Intra-aortic balloon pumping (dogs, lambs, cats)
R01HL-21431-02 Factor II antigen and coagulant activity (human, animals)
R01HL-21444-02 Pulmonary mechanics during postnatal development (human)

CHILDREN, INFANT AND CHILD MORTALITY

R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
P60HL-16005-05 0021 Comprehensive sickle cell center - Management of pregnancy in sickle cell anemia (human)
P50HL-19185-02 0009 Pulmonary SCOR–Neonatal respiratory distress syndromes - Nasal continuous positive airway pressure in hyaline membrane disease (human)

CHILDREN, INFANT AND CHILD MORTALITY, SUDDEN INFANT DEATH SYNDROME

R01HL-07047-16 Comparative study of cardiac conduction system (human, birds, mammals)
P01HL-13480-09 0026 Cardiac electrophysiology - Neural influences on cardiac electrophysiology and contraction (dog, cat)
P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
R01HL-16325-03 Breathing patterns in man
** R01HL-17800-04 Pulmonary reflexes–Central pathways (cats, dogs, rabbits)
** R01HL-19225-02 0004 Types and mechanims of pulmonary hypertension - Structural changes in human pulmonary circulation (human, animals)
R01HL-23601-01 Early hypoxia and development of respiratory control

CHILDREN, INFANT NEWBORN (BIRTH TO 4-6 WKS)

SEE ALSO BLOOD AND RE DISORDERS, ANEMIA APLASTIC CONGENITAL
SEE ALSO BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC CONGENITAL (GENERAL)
SEE ALSO CONGENITAL ABNORMALITIES
SEE ALSO CONGENITAL ABNORMALITIES, RESPIRATORY DISTRESS SYNDROME
SEE ALSO JAUNDICE NEONATAL (TRANSIENT)
SEE ALSO PREGNANCY, PERINATAL
SEE ALSO RESPIRATORY GAS LEVELS, HYPOXIA NEONATORUM
N01HB-62908-07 Maternal to infant transmission of hepatitis B (human)
R01HL-05168-19 Inhomogencity of hemoglobin types (human)
M P01HL-10436-13 A multidisciplinary study of congenital heart disease
** P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
** R01HL-10834-09 Fetal and neonatal pulmonary circulation (goats)
** R01HL-11901-12 0009 Effects of metabolic surgery on the hyperlipidemias - Cholesterol cord blood and family management program
P01HL-13480-09 0026 Cardiac electrophysiology - Neural influences on cardiac electrophysiology and contraction (dog, cat)
R01HL-14131-18 Abnormal hemoglobin syndromes (human)
P50HL-14136-07 0017 Pulmonary SCOR-Airways obstructive diseases Pediatric airways obstructive disease (human)
P50HL-14141-05 0002 SCOR for atherosclerosis in childhood Intrauterine environment of preband group (human)
M P50HL-14214-07 Newborn lung center for hyaline membrane disease
P50HL-14214-07 0027 Newborn lung center for hyaline membrane disease - Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep)
P50HL-14214-07 0032 Newborn lung center for hyaline membrane disease Evoked electroencephalographic potential in infants with HMD (human)
P50HL-14214-07 0034 Newborn lung center for hyaline membrane disease Core-Newborn intensive care unit
M P50HL-14218-07 Pulmonary SCOR-Newborn lung center
P50HL-14218-07 0004 Pulmonary SCOR–Newborn lung center Metabolism of infants with respiratory distress syndrome (human)
P50HL-14218-07 0005 Pulmonary SCOR–Newborn lung center - Prevention of infection in infants with respiratory distress (human)
P50HL-14218-07 0012 Pulmonary SCOR-Newborn lung center - Longitudinal study of ROS--On-line fetal and neonatal monitoring (human)
** P50HL-15061-07 0013 Response of lung to injury - Exchange transfusion in infants with respiratory distress syndrome (human, sheep)
** P60HL-15158-07 0004 Comprehensive sickle cell center - Expression of abnormal hemoglobin synthesis in the neonate and young child
P60HL-15160-07 0013 Center for sickle cell disease - Immunochemical diagnosis of hemoglobinopathies (infants)
P60HL-15162-07 0001 Comprehensive sickle cell center - Core program–Patient care
P60HL-15168-07 0001 Comprehensive sickle cell disease center - Screening program (human)
** R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
R01HL-17752-03 Purified human clotting factor IX-- Immunologic studies (human)
M P50HL-19185-02 Pulmonary SCOR–Neonatal respiratory distress syndromes
P50HL-19185-02 0005 Pulmonary SCOR–Neonatal respiratory distress syndromes - Role and mechanism of glucocorticoids in fetal lung maturation (human, rabbit)
P50HL-19185-02 0006 Pulmonary SCOR–Neonatal respiratory distress syndromes - Evaluation of risk factors in neonatal respiratory distress (human, sheep)
P50HL-19185-02 0007 Pulmonary SCOR–Neonatal respiratory distress syndromes - Sodium bicarbonate and albumin in resuscitation of preterm infants (human)
** P50HL-19190-02 0001 Pulmonary SCOR–Pathophysiology, management of IROS - Core–Clinical research center (infants)
P50HL-19190-02 0002 Pulmonary SCOR–Pathophysiology, management of IROS - Core–Demonstration and dissemination
P50HL-19190-02 0008 Pulmonary SCOR–Pathophysiology, management of IROS - Hemodynamics and gas exchange-- Determinants of hypotension (human, infant)
** R01HL-19864-03 0003 Blood pressure of children and young adults - Heart rate and blood pressure–Consistency in infancy (human)
** R01HL-19930-03 A prospective study–Blood pressure in newborn twins
R01HL-20337-02 Thromboembolic diseases (human)
R01HL-20354-02 Direct determination of oxygen tension in the clinical environment (human, dogs)
R01HL-20961-02 Hemoglobin Y-chain genes–Evolution and inducibility (monkeys, human)
** R01HL-22636-01 Newborn lung function during mechanical ventilation (human)
R01HL-22838-01 Post-transfusion hepatitis in newborn children

CHILDREN, INFANT PREMATURE AND LOW BIRTH WEIGHT

SEE ALSO CONGENITAL ABNORMALITIES, RESPIRATORY DISTRESS SYNDROME
SEE ALSO EYE DISORDERS, RETROLENTAL FIBROPLASIA
SEE ALSO PREGNANCY DISORDERS, EMBRYO-FETAL GROWTH-DEVELOPMENT DISORDERS (SEE ALSO APPROPRIATE SPECIFICS)
P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
M P50HL-14214-07 Newborn lung center for hyaline membrane disease
P50HL-14214-07 0013 Newborn lung center for hyaline membrane disease - Developmental outcome of children who had HMD as infants
P50HL-14214-07 0020 Newborn lung center for hyaline membrane disease - Epidermal growth factor effect–Lung differentiation, maturation (human, rabbit)
P50HL-14214-07 0028 Newborn lung center for hyaline membrane disease - Relationship of trace metals to respiratory failure (dog, sheep, human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

** P50HL-14214-07 0030 Newborn lung center for hyaline membrane disease - Effects of ductal patency–Impedance cardiography and echocardiography (human)
P50HL-14214-07 0031 Newborn lung center for hyaline membrane disease - Essential fatty acid deficiency and HMO (human)
P50HL-14214-07 0032 Newborn lung center for hyaline membrane disease - Evoked electroencephalographic potential in infants with HMO (human)
** P50HL-14214-07 0034 Newborn lung center for hyaline membrane disease - Core–Newborn intensive care unit
** P50HL-14218-07 0015 Pulmonary SCOR–Newborn lung center - Long term follow-up of infants surviving ROS–Neurological outcome (human)
** P50HL-15061-07 0013 Response of lung to injury - Exchange transfusion in infants with respiratory distress syndrome (human, sheep)
P60HL-16005-05 0021 Comprehensive sickle cell center - Management of pregnancy in sickle cell anemia (human)
P01HL-17419-04 0003 Studies on mechanisms of hemostasis - Characterization of fibrinogen (human)
M P50HL-19185-02 Pulmonary SCOR–Neonatal respiratory distress syndromes
P50HL-19185-02 0005 Pulmonary SCOR–Neonatal respiratory distress syndromes - Role and mechanism of glucocorticoids in fetal lung maturation (human, rabbit)
P50HL-19185-02 0006 Pulmonary SCOR–Neonatal respiratory distress syndromes - Evaluation of risk factors in neonatal respiratory distress (human, sheep)
** P50HL-19185-02 0007 Pulmonary SCOR–Neonatal respiratory distress syndromes - Sodium bicarbonate and albumin in resuscitation of preterm infants (human)
P50HL-19185-02 0009 Pulmonary SCOR–Neonatal respiratory distress syndromes - Nasal continuous positive airway pressure in hyaline membrane disease (human)
M P50HL-19187-02 Pediatric pulmonary SCOR–Hyaline membrane disease
** P50HL-19187-02 0007 Pediatric pulmonary SCOR–Hyaline membrane disease - Follow-up study–Infants with hyaline membrane disease (human)
P50HL-19187-02 0011 Pediatric pulmonary SCOR–Hyaline membrane disease - Effects of hypoxia and hypercapnia on developing nervous system (monkey, human)
P50HL-19190-02 0008 Pulmonary SCOR–Pathophysiology, management of IROS - Hemodynamics and gas exchange--Determinants of hypotension (human, infant)
R01HL-20337-02 Thromboembolic diseases (human)
** R23HL-21405-01 Respiratory muscles in regulation of infant breathing (human)
R01HL-21431-02 Factor II antigen and coagulant activity (human, animals)
R01HL-22843-01 Pulmonary physiology in liquid ventilation (lambs)

CHILDREN, MIDCHILDHOOD (6 TO 12 YRS)
P50HL-14230-07 0088 A/S SCOR–Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
R01HL-19877-02 Prevention of high blood pressure in children
R01HL-22528-02 Early risk predictors for chronic pulmonary disease (human)

CHILDREN, PRESCHOOL (1 TO 6 YRS)
P60HL-15162-07 0021 Comprehensive sickle cell center - Pneumococcal vaccine in sickle cell disease (children)

CHILE
SEE GEOGRAPHICAL SITES, S. AMERICA, CHILE

CHIMERAS
SEE TISSUE MOSAICISM

CHIMPANZEE
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), GREAT APES (PONGIDS), PAN (CHIMPANZEE)*

CHLAMYDIA
** P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)

CHLAMYDIA, LYMPHOGRANULOMA VENEREUM AGENT
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)

CHLAMYDIA, MENINGOPNEUMONITIS AGENT
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)

CHLAMYDIA, PSITTACOSIS AGENT
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)

CHLAMYDIA, TRACHOMA AGENT
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)

CHLAMYDOZOACEAE
SEE CHLAMYDIA

CHLORALOSE
SEE OXOLES, CHLORALOSE

CHLORDIAZEPOXIDE
SEE AZEPINES, DIAZEPINES, CHLORDIAZEPOXIDE

CHLORIDE PUMP
SEE BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS, CHLORIDE PUMP

CHLORIDES
SEE HALOGENS, CHLORINE (COMPOUNDS) SEE ALSO SPECIFICS

CHLORINE (COMPOUNDS)
SEE HALOGENS, CHLORINE (COMPOUNDS) SEE ALSO SPECIFICS

P-CHLOROPHENYLALANINE
SEE CYCLIC AMINO ACIDS, PHENYLALANINE, P-CHLOROPHENYLALANINE

CHLOROQUINE
SEE QUINOLINES, CHLOROQUINE

CHLOROTHIAZIDE
SEE SULFONAMIDES, CHLOROTHIAZIDE

CHLORPROMAZINE
SEE PHENOTHIAZINES, CHLORPROMAZINE

CHLORTHALIDONE
SEE SULFONAMIDES, PHENYLSULFONAMIDES, CHLORTHALIDONE

CHOLAGOGUES AND CHOLERETICS
SEE BILE, CHOLAGOGUES AND CHOLERETICS

CHOLANATE SERIES
SEE ALSO BILE ACIDS AND SALTS
SEE ALSO CARDIAC GLYCOSIDES AGLYCONES, BUFADIENOLIDES
R01HL-23598-01 Dietary fat, cholesterol and bile acid turnover (rats)

CHOLANATE SERIES, CHENODEOXYCHOLIC ACID
R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)

CHOLANATE SERIES, CHOLATES
SEE ALSO CHOLANATE SERIES, DEOXYCHOLATES
R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)

CHOLANATE SERIES, DEOXYCHOLATES
R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)

CHOLATES
SEE CHOLANATE SERIES, CHOLATES

CHOLECYSTOKININ
SEE GASTROINTESTINAL HORMONES, PANCREOZYMIN-CHOLECYSTOKININ

CHOLEIC ACIDS
SEE CHOLANATE SERIES, DEOXYCHOLATES

CHOLELITHS
SEE BILIARY TRACT DISORDERS, CHOLELITHS

CHOLERA TOXIN
SEE IMMUNOLOGY, ANTIGENS BACTERIAL, CHOLERA TOXIN

CHOLERETICS
SEE BILE, CHOLAGOGUES AND CHOLERETICS

CHOLESTANE SERIES, CHOLESTANES
R01HL-07878-16 Metabolism of neutral sterols (rats, rabbits)
R01HL-18610-03 Early intervention of age related arterial changes (pigeon)

CHOLESTANE SERIES, CHOLESTANOL
SEE ALSO CHOLESTANE SERIES, CHOLESTEROL
** R01HL-07878-16 Metabolism of neutral sterols (rats, rabbits)
** R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)

CHOLESTANE SERIES, CHOLESTEROL
SEE ALSO CHOLESTANE SERIES, HYDROXYCHOLESTEROLS
SEE ALSO CHOLESTANE SERIES, SITOSTEROL
SEE ALSO CHOLESTANE SERIES, BETA-SITOSTEROL
SEE ALSO LIPIDS BLOOD, HYPERCHOLESTEREMIA
SEE ALSO LIPIDS BLOOD, HYPOCHOLESTEREMIA
R01HL-01803-23 0005 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic and dietary synergy in the pathogenesis of atherosclerosis (rabbits)
R01HL-01979-22 Arteriosclerosis in zoo animals on controlled diets (animals)
R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
P01HL-03174-23 0010 Mechanisms of acute vascular reaction to injury - Search for mutagens in the human blood (bacteria, animals)
** R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
** R01HL-05209-18 Lipid metabolism (monkeys)
** R01HL-05360-19 Cholesterol biosynthesis and its control in liver (rats)
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
** R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)
P01HL-06285-18 0203 Cardiovascular-respiratory physiology and biochemistry - Pathways of lipid transport in the blood (animals)
** P01HL-06285-18 0204 Cardiovascular-respiratory physiology and biochemistry - Lipoprotein lipase and triglyceride transport in chylomicrons (guinea pig, rat)
** P01HL-06285-18 0205 Cardiovascular-respiratory physiology and biochemistry - Assimilation of cholesterol in chylomicrons and VLDL (rabbits)
** P01HL-06285-18 0207 Cardiovascular-respiratory physiology and biochemistry - Feedback control of cholesterol synthesis in non-hepatic tissues (animals)
R01HL-06481-15 Lipid metabolism (human, rats)
** P01HL-06835-17 0015 Cardiovascular disease - Plasma cholesterol esterification in canine atherosclerosis
P01HL-06835-17 0020 Cardiovascular disease - Lipid metabolism (rats)
P01HL-06835-17 0021 Cardiovascular disease - Animal study in atherosclerosis (dog, guinea pig)
P01HL-06835-17 0063 Cardiovascular disease - Studies on prostaglandins (human, rabbits)
P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
** R01HL-08634-15 Enzymic cholesterol synthesis (human, rats, protozoa, yeast)
M P01HL-08974-14 Natural and experimental atherosclerosis
P01HL-08974-14 0005 Natural and experimental atherosclerosis - Atherosclerosis, coronary heart disease and sudden death (human)
P01HL-08974-14 0024 Natural and experimental atherosclerosis - Atherosclerosis, sterol and lipoprotein metabolism in nonhuman primates
** R01HL-09610-14 Control of cholesterol metabolism--Bile acid transport
R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
** R01HL-10642-18 Plasma cholesterol metabolism (human, macaca)
** R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
** R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
** P01HL-11310-12 0101 Mechanisms of cardiovascular disease - Molecular pathogenesis of vascular disease
R01HL-11897-11 Pathogenesis of experimental atherosclerosis (rabbits, guinea pigs)
R01HL-11901-12 0001 Effects of metabolic surgery on the hyperlipidemias - Partial ileal bypass (human)
** R01HL-11901-12 0004 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass–Cholesterol dynamics studies (rats, rabbits, dogs)
R01HL-11901-12 0012 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass–Animal atherosclerosis implications (pigeons, dogs, rabbits)
R01HL-11901-12 0013 Effects of metabolic surgery on the hyperlipidemias - Human cholesterol and bile acids dynamics--Ileal bypass
** R01HL-11901-12 0015 Effects of metabolic surgery on the hyperlipidemias - Portacaval shunt for cholesterol reduction (dogs, rabbits)
R01HL-11901-12 0018 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass--Postoperative complications (human)
** R01HL-11901-12 0019 Effects of metabolic surgery on the hyperlipidemias - Cholesterol, bileacids, lipoproteins in obese humans
R01HL-11901-12 0020 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass–Endogenous animal model of obesity (rats)
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
** R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
R01HL-12760-09 Surface studies of membrane lipids and proteins
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
P01HL-13262-07 0016 Arterial wall in atherosclerosis - Lipids in elastin preparations from atherosclerotic plaques (human, animals)
R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-13974-07 Ventricular premature beats and sudden coronary death (human)
R01HL-14111-07 Cholesteryl esters in membranes and atherosclerosis (human, swine)
R01HL-14126-17 Effect of function on grafts and implants of collagen (dogs, monkeys)
P50HL-14141-05 0003 SCOR for atherosclerosis in childhood - Detection of abnormalities in lipid metabolism (human, rabbits, rats)
P50HL-14141-05 0008 SCOR for atherosclerosis in childhood - Core laboratory
M P50HL-14164-07 A/S SCOR--Comparative and experimental atherosclerosis
** P50HL-14164-07 0027 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (squirrel monkey)
** P50HL-14164-07 0028 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporespensiveness to dietary cholesterol (African green monkey)
P50HL-14164-07 0029 A/S SCOR--Comparative and experimental atherosclerosis - Development of pigeon substrains
P50HL-14164-07 0030 A/S SCOR--Comparative and experimental atherosclerosis - Morphology, angiochemistry--Diet induced lesions in African green monkey
P50HL-14164-07 0031 A/S SCOR--Comparative and experimental atherosclerosis - Changes in endothelial permeability associated with atherosclerosis (pigeon)
** P50HL-14164-07 0032 A/S SCOR--Comparative and experimental atherosclerosis - Plasma cholesterol, lesion regression and vascular function (Rhesus monkey)
** P50HL-14164-07 0033 A/S SCOR--Comparative and experimental atherosclerosis - Comparative studies of lipoprotein distribution and metabolism (monkeys)
P50HL-14164-07 0034 A/S SCOR--Comparative and experimental atherosclerosis - Core lipid analytic laboratory
P50HL-14164-07 0035 A/S SCOR--Comparative and experimental atherosclerosis - Lipid metabolism--Interaction with arterial metabolism (monkey, pigeon)
P50HL-14164-07 0036 A/S SCOR--Comparative and experimental atherosclerosis - Connective tissue metabolism--Interaction with arterial metabolism (monkeys)
** P50HL-14164-07 0037 A/S SCOR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
P50HL-14164-07 0038 A/S SCOR--Comparative and experimental atherosclerosis - Peripheral vascular studies--Cholesterol, lesion regression, vascular function
P50HL-14164-07 0041 A/S SCOR--Comparative and experimental atherosclerosis - Nonhuman primate pediatric atherosclerosis risk factor
** P50HL-14164-07 0042 A/S SCOR--Comparative and experimental atherosclerosis - Comparative cardiology laboratory (monkeys)
P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
P50HL-14230-07 0088 A/S SCOR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
** P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
P50HL-14230-07 0093 A/S SCOR--Lipids, atherosclerosis and thrombosis - Clinical studies involving cellular lipid content (human)
P50HL-14230-07 0094 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of atherosclerosis and regression (monkeys)
P50HL-14230-07 9001 A/S SCOR--Lipids, atherosclerosis and thrombosis - Core lipid laboratory
P50HL-14236-05 0001 Prevention of premature arteriosclerosis - Metabolism and transport of cholesterol and vitamin A (human, rats)
P50HL-14236-05 0008 Prevention of premature arteriosclerosis - Lipoproteins of cell membranes (human)
P50HL-14236-05 0009 Prevention of premature arteriosclerosis - Clinical studies on cholesterol metabolism (human)
P50HL-14237-07 0005 Support for arteriosclerosis center - Genetic determinants of apolipoprotein variability in lipoproteins (human)
P50HL-14237-07 0007 Support for arteriosclerosis center - Core laboratories
R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
R01HL-14781-08 Lipid deposition in mammalian cells (mice)
R01HL-14820-07 Factors affecting physiology of biological membranes (human)
P50HL-15062-07 0007 Study of lipoproteins, artery wall, and atherosclerosis - Physical chemistry of lipid-protein interaction (human)
P50HL-15062-07 0018 Study of lipoproteins, artery wall, and atherosclerosis - Reversal of atherosclerosis in monkeys
P50HL-15062-07 0019 Study of lipoproteins, artery wall, and atherosclerosis - Factors regulating lipoprotein-smooth muscle cell interaction (monkey)
P50HL-15103-07 0013 A/S SCOR--Early natural history of arteriosclerosis - Experimental models of atherosclerosis (monkeys)
R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
R01HL-15263-06 Lecithin-Cholesterol acetyltransferase (human, rabbits)
** P01HL-15265-05 0003 Program on surgical control of the hyperlipidemias - Central lipid laboratory
** R01HL-15376-06 Intermediary metabolism of sterols (mice)
** R01HL-15478-05 Lipid flux and collagen synthesis in atherosclerosis (rabbits)
R01HL-15504-05 Animal model for studies on averting atherosclerosis (swine)
P01HL-15596-05 0018 Coagulation, fibrinolysis, hemostasis and hepatitis - Increased plasma lipids on blood coagulation and thrombosis (human, animals)
R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
** R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
R01HL-15949-05 Lipoprotein metabolism in relation to atherosclerosis (human, baboons)
R01HL-15965-06 Experimental atherosclerosis and elastin metabolism (chicks)
R01HL-16059-06 Structure and function of serum lipoproteins (cattle, human)
** R01HL-16294-04 Effectors of cholesterol synthesis (rats)
R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
R01HL-16588-05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
** R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions
** R01HL-16796-05 Cholesterol regulation by HMG-CoA reductase (rats, human)
P01HL-16851-04 0001 Human red cell membrane in health and disease - Rheology of erythrocyte membrane (human, amphiuma)
P60HL-17269-04 0013 National heart and blood vessel research and demonstration center - Peptide synthesis laboratory (human)
P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
R01HL-17564-03 Unsaturated fats--Mode of hypocholesterolemic action (minipig)
R01HL-17576-04 Role of sphingomyelin in biomembranes and bilayers (rats, other mammals)
R01HL-17580-04 The impact of stress on coronary heart disease (men)
R01HL-17721-04 Effect of sex hormones on vascular connective tissue (rats)
** R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
** R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
R01HL-18048-04 Dynamics of artificial and biological membranes (human)
** R01HL-18094-04 Regulation of cholesterol biosynthesis (rats)
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
** R01HL-18219-04 Regulation of cholesterol metabolism (rats)
R01HL-18235-03 Cardiovascular fitness and other risk factors (human)
R01HL-18255-04 Lipid-protein interactions and calcium transport (models)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
** R01HL-18553-03 Membrane defects in familial hypercholesteremia (human)
M P01HL-18574-03 Lipoprotein methodology and biomedical applications
P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
R01HL-18610-03 Early intervention of age related arterial changes (pigeon)
R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
** R01HL-18636-02 Fatty acids and cholesterol transport (rats)
P01HL-18645-03 0001 Biology of the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
** R01HL-18682-03 Protein kinase and cholesterol metabolism in aorta (rabbits)
R01HL-18687-03 Pathophysiology of genetic hypertriglycerinemias (human)
R01HL-18723-03 Genetic heterogeneity of acid lipase Atherosclerosis (human)
P01HL-18827-02 0005 Platelet vessel wall interactions in thrombogenesis - Platelet vessel wall interactions in thrombogenesis (human)
** R01HL-18878-03 Familial hypercholesteremia Studies of fibroblasts (human)
R01HL-18923-02 Steroid induced hyperlipidemia and hypertension (human, rats)
R01HL-19063-03 Cholesterol and lipoprotein metabolism (rat hepatocytes)
** R01HL-19083-02 Rapid specific micro measurement of blood cholesterol
R01HL-19109-03 Regression of chronic atherosclerosis (rabbits)
R01HL-19175-03 Pituitary modulation of micro and macro-vascular disease (human, rats)
** R01HL-19223-03 Control of cholesteregenesis in leukocytes and liver (rats, human)
P01HL-19242-02 0002 Study of vascular smooth muscle Vascular smooth muscle response to serum lipoproteins (rats)
M P50HL-19362-02 A/S SCOR--Atherosclerosis in nonhuman primates
P50HL-19362-02 0001 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of infant nutrition on atherosclerosis (baboons)
P50HL-19362-02 0002 A/S SCOR--Atherosclerosis in nonhuman primates - Infant caloric intake, adipose tissue development and atherosclerosis (baboon)
P50HL-19362-02 0003 A/S SCOR--Atherosclerosis in nonhuman primates - Heritability of characters related to atherosclerosis (baboons)
P50HL-19362-02 0004 A/S SCOR--Atherosclerosis in nonhuman primates - Selective breeding for characters related to atherosclerosis (baboons)
P50HL-19362-02 0005 A/S SCOR--Atherosclerosis in nonhuman primates - Hybridization to produce primate model of atherosclerosis (baboon, Rhesus)
P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of cigarette smoking on atherosclerosis (baboon)
** P50HL-19362-02 0009 A/S SCOR--Atherosclerosis in nonhuman primates - Cholesterol metabolism and intestinal microflora (baboon)
P50HL-19362-02 0013 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Lipid biochemistry (baboons)
R01HL-19381-03 Pathogenesis of viral induced atherosclerosis (human, chicken)
R01HL-19936-02 Unsaturated fatty acid biosynthesis in the aorta (rats)
R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
** R01HL-20061-02 Serum lipoproteins and cell cholesterol metabolism (rats, human)
R01HL-20183-02 Portacaval shunt as treatment for hyperlipemia (pigs)
** R01HL-20303-03 Cholesterol distribution in erythrocyte membrane (human, animals)
** R01HL-20350-02 Crystal structure of lipids--Cholesterol
R01HL-20391-03 Polydisperse LDL--Structure, metabolism and function (human)
R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
** R01HL-20483-03 Sterol balance and cholesterol absorption in diabetics (human)
** R01HL-20488-03 Cholesterol metabolism in diabetic man
R01HL-20662-02 Physical activity, fitness and epidemiology of CHD
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-20910-02 The alternative diet for coronary disease prevention (human)
M P01HL-20948-02 Molecular basis of cholesterol metabolism
** P01HL-20948-02 0001 Molecular basis of cholesterol metabolism - Biochemical and ultrastructural characterization of LDL in human fibroblasts
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
** P01HL-20948-02 0003 Molecular basis of cholesterol metabolism - LDL pathway in vivo (human, rats, guinea pigs)
P01HL-20948-02 0004 Molecular basis of cholesterol metabolism - Genetic analysis of the LDL pathway (human)
** P01HL-20948-02 9001 Molecular basis of cholesterol metabolism - Tissue culture core laboratory
** P01HL-20948-02 9002 Molecular basis of cholesterol metabolism - Microscopy core laboratory
M P01HL-20993-02 Population dynamics of arterial cells in atherogenesis
** P01HL-20993-02 0008 Population dynamics of arterial cells in atherogenesis - Angiotoxicity of cholesterol oxidation in atherogenesis (rabbits)
M P50HL-21006-02 Specialized center of research in arteriosclerosis
** P50HL-21006-02 0002 Specialized center of research in arteriosclerosis - Turnover and metabolism of cholesterol in man

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-21246-02 Roles of cholesterol and its metabolic regulation (CHO cell mutants)
R23HL-21251-01 Metabolism of neutral lipids in the pulmonary alveolus (rabbits)
R23HL-21279-02 Angiographic estimation of atherosclerotic wall thickness
R01HL-21592-01 Lipoproteins and coagulation factors in atherosclerosis (pigeons)
R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)
R01HL-21912-01 Biosynthesis of lipoic acid and atherosclerosis (birds, chick embryos)
** R01HL-22052-01 Organization of free cholesterol in serum lipoproteins (human, dogs)
R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
R01HL-22121-02 Dyslipoproteinemia in diabetes and vascular disease (human)
R01HL-22378-01 Psyco-somatic predictors of CHO in adolescence (human)
** R01HL-22474-01 Cholesterol metabolism and atherosclerosis (rats, human, rabbits)
** R01HL-22567-01 Validation of a cholesterol absorption method in man
** R01HL-22570-01 Interactions of sterols in biological systems (human)
R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)
P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)
P01HL-22633-01 0004 Cellular and molecular biology of lipoprotein metabolism - Lipid-lipid and lipid-protein interactions in serum lipoproteins (human, rats)
R01HL-22682-01 Structure and function of high density lipoprotein (human, rat)
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
R01HL-22771-01 Thrombogenic phospholipid surfaces (cattle)
R01HL-22983-01 Studies on the catabolism of plasma lipoproteins (rats)
R01HL-23003-01 Bulk-surface distribution of cholesteryl esters
R01HL-23108-01 Membrane biochemistry of RH antigens (human)
R01HL-23183-01 Voltage dependent conductance in membranes
R01HL-23598-01 Dietary fat, cholesterol and bile acid turnover (rats)
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)
N01HV-12157-14 Lipid research clinic (human)
N01HV-22971-07 Prevention of coronary heart disease (human)
N01HV-22976-07 Multiple risk factor intervention trial, prevention of coronary heart disease
N01HV-22977-08 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22979-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22981-10 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33101-06 Development and conduct of a multiple risk factor intervention trial (human)
N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33108-04 Prevention of coronary heart disease (human)
N01HV-33109-04 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33110-04 Prevention of coronary heart disease (human)
N01HV-42930-09 Risk factor intervention trial for the prevention of CHO (human)
N01HV-42932-05 Risk factor intervention trial for the prevention of CHO (human)
N01HV-42933-09 Multiple risk factors in coronary heart disease (human)

CHOLESTANE SERIES, CHOLESTEROL ANALOGS

R01HL-21246-02 Roles of cholesterol and its metabolic regulation (CHO cell mutants)

CHOLESTANE SERIES, CHOLESTEROL ESTERS

** R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
** R01HL-03734-18 Metabolism of arterial tissue in atherosclerosis (rabbits)
R01HL-05360-19 Cholesterol biosynthesis and its control in liver (rats)
P01HL-06285-18 0203 Cardiovascular-respiratory physiology and biochemistry - Pathways of lipid transport in the blood (animals)
P01HL-06285-18 0205 Cardiovascular-respiratory physiology and biochemistry - Assimilation of cholesterol in chylomicrons and VLDL (rabbits)
P01HL-06285-18 0207 Cardiovascular-respiratory physiology and biochemistry - Feedback control of cholesterol synthesis in non-hepatic tissues (animals)
** P01HL-06835-17 0015 Cardiovascular disease - Plasma cholesterol esterification in canine atherosclerosis
P01HL-06835-17 0020 Cardiovascular disease - Lipid metabolism (rats)
R01HL-10160-13 Origins of atherosclerosis (human)
R01HL-10642-18 Plasma cholesterol metabolism (human, macaca)
** R01HL-10933-13 Fat metabolism and atherosclerosis (rabbits, cattle, human, rats)
** P01HL-13262-07 0025 Arterial wall in atherosclerosis - Phospholipid and cholesterol esters
R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
** R01HL-14111-07 Cholesteryl esters in membranes and atherosclerosis (human, swine)
P50HL-14164-07 0031 A/S SCOR--Comparative and experimental atherosclerosis - Changes in endothelial permeability associated with atherosclerosis (pigeon)
P50HL-14164-07 0033 A/S SCOR--Comparative and experimental atherosclerosis - Comparative studies of lipoprotein distribution and metabolism (monkeys)
P50HL-14164-07 0035 A/S SCOR--Comparative and experimental atherosclerosis - Lipid metabolism--Interaction with arterial metabolism (monkey, pigeon)
P50HL-14164-07 0036 A/S SCOR--Comparative and experimental atherosclerosis - Connective tissue metabolism--Interaction with arterial metabolism (monkeys)
P50HL-14164-07 0037 A/S SCOR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
P50HL-14237-07 0003 Support for arteriosclerosis center - Structure of lipoproteins and apolipoproteins (human, rabbits)
R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
R01HL-14781-08 Lipid deposition in mammalian cells (mice)
P50HL-15062-07 0018 Study of lipoproteins, artery wall, and atherosclerosis - Reversal of atherosclerosis in monkeys
P50HL-15062-07 0019 Study of lipoproteins, artery wall, and atherosclerosis - Factors regulating lipoprotein-smooth muscle cell interaction (monkey)
R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
R01HL-15478-05 Lipid flux and collagen synthesis in atherosclerosis (rabbits)
R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
R01HL-16807-02 Lipid structure of normal and hyperlipoproteins (human)
P60HL-17269-04 0009 National heart and blood vessel research and demonstration center - Physical methods laboratory (high density lipoproteins)
** R01HL-17371-05 Regualtion of cholesteryl ester levels in the aorta (swine)
P50HL-18318-03 0014 Pathogenesis and complications of hypertension - Arterial metabolism and atherogenesis (rat, rabbit)
R01HL-18682-03 Protein kinase and cholesterol metabolism in aorta (rabbits)
R01HL-19083-02 Rapid specific micro measurement of blood cholesterol
P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
** R01HL-19250-03 Mechanism of plasma cholesterol esterification (human)
R01HL-19936-02 Unsaturated fatty acid biosynthesis in the aorta (rats)
R01HL-20350-02 Crystal structure of lipids--Cholesterol
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
P01HL-20993-02 0006 Population dynamics of arterial cells in atherogenesis - Mechanism of regression of atherosclerosis by diet and injury (swine)
P50HL-21006-02 0004 Specialized center of research in arteriosclerosis - Regulation of growth of human arterial smooth muscle cells by platelets
R23HL-21251-01 Metabolism of neutral lipids in the pulmonary alveolus (rabbits)
R01HL-21513-02 Metabolism of trans fatty acids (human, rats, swine)
R01HL-22121-02 Dyslipoproteinemia in diabetes and vascular disease (human)
R01HL-22570-01 Interactions of sterols in biological systems (human)
R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
R01HL-22847-01 Test for adherence to diets rich in linoleic acid
** R01HL-23003-01 Bulk-surface distribution of cholesteryl esters

CHOLESTANE SERIES, CHOLESTEROL INHIBITORS

SEE ALSO PYRIDINE CARBOXYLIC ACIDS, NICOTINIC ACID
R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
P01HL-06285-18 0207 Cardiovascular-respiratory physiology and biochemistry - Feedback control of cholesterol synthesis in non-hepatic tissues (animals)
P01HL-06835-17 0026 Cardiovascular disease - Lipoproteins (human, guinea pig)
P01HL-08214-15 0027 Chemical and biological properties of lipids - Biological functions diol lipids (swine, rats, plants)
R01HL-08888-12 Cooperative study of drugs and coronary heart disease (men)
** R01HL-08892-10 Cooperative study of drugs and coronary heart disease
R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)
R01HL-11901-12 0004 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Cholesterol dynamics studies (rats, rabbits, dogs)
** R01HL-11901-12 0006 Effects of metabolic surgery on the hyperlipidemias - Drug therapy with ileal bypass (rabbits)
** R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
** R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
** R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
P50HL-14230-07 0093 A/S SCOR--Lipids, atherosclerosis and thrombosis - Clinical studies involving cellular lipid content (human)
** P50HL-14236-05 0009 Prevention of premature arteriosclerosis - Clinical studies on cholesterol metabolism (human)
** P50HL-14237-07 0006 Support for arteriosclerosis center - Drug treatment of familial hyperbetalipoproteinemia (human)
P50HL-15062-07 0018 Study of lipoproteins, artery wall, and atherosclerosis - Reversal of atherosclerosis in monkeys
R01HL-15374-03 Cooperative study of drugs and coronary heart disease (human)
R01HL-15376-06 Intermediary metabolism of sterols (mice)
** R01HL-15476-05 Mechanism and control of sterol biosynthesis (rats)
R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)
** R01HL-16294-04 Effectors of cholesterol synthesis (rats)
** R01HL-16587-04 Cholesterol binding saponins and atherosclerosis (monkeys)
R01HL-16796-05 Cholesterol regulation by HMG-CoA reductase (rats, human)
** R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
** R01HL-17564-03 Unsaturated fats--Mode of hypocholesterolemic action (minipig)
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
P01HL-18827-02 0005 Platelet vessel wall interactions in thrombogenesis - Platelet vessel wall interactions in thrombogenesis (human)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
R01HL-19936-02 Unsaturated fatty acid biosynthesis in the aorta (rats)
** R01HL-20183-02 Portacaval shunt as treatment for hyperlipemia (pigs)
** P01HL-20993-02 0004 Population dynamics of arterial cells in atherogenesis - Modifications of cholesterol balance related to arterial cell divisions (swine)
** P01HL-20993-02 0005 Population dynamics of arterial cells in atherogenesis - Drugs other than hypolipidemic drugs affecting atherosclerosis (swine, rabbits)
R23HL-21251-01 Metabolism of neutral lipids in the pulmonary alveolus (rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-22532-01 Inhibitors of cholesterol biosynthesis (rats, mice, yeast)
** R01HL-22682-01 Structure and function of high density lipoprotein (human, rat)
N01HV-12156-10 Lipid research clinic
N01HV-12158-10 Establishment of a lipid research clinic
N01HV-12159-09 Lipid research clinic
N01HV-12160-15 Establishment of a lipid research clinic
N01HV-22913-09 Lipid research clinic
N01HV-22914-08 Establishment of a lipid research clinic
N01HV-22915-11 Establishment of lipid research clinic
N01HV-32931-09 Establishment of a lipid research clinic center

CHOLESTANE SERIES, CHOLESTEROL INHIBITORS, COLESTIPOL
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
P50HL-14237-07 0006 Support for arteriosclerosis center - Drug treatment of familial hyperbetalipoproteinemia (human)
R01HL-15308-07 Assays for peptides of lipoproteins (human)
P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
R01HL-22748-01 Effect of bile sequestration on VLDL metabolism (human)

CHOLESTANE SERIES, CHOLESTEROL OXIDES
R01HL-12760-09 Surface studies of membrane lipids and proteins

CHOLESTANE SERIES, HYDROXYCHOLESTEROLS
** R01HL-10160-13 Origins of atherosclerosis (human)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
R01HL-16294-04 Effectors of cholesterol synthesis (rats)

CHOLESTANE SERIES, LANOSTEROL
R01HL-21246-02 Roles of cholesterol and its metabolic regulation (CHO cell mutants)

CHOLESTANE SERIES, SITOSTEROL
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)

CHOLESTANE SERIES, BETA-SITOSTEROL
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
P50HL-14237-07 0006 Support for arteriosclerosis center - Drug treatment of familial hyperbetalipoproteinemia (human)
R01HL-22567-01 Validation of a cholesterol absorption method in man

CHOLESTANE SERIES 5-BETA, COPROSTEROL
P50HL-19362-02 0009 A/S SCOR--Atherosclerosis in nonhuman primates - Cholesterol metabolism and intestinal microflora (baboon)

CHOLESTANES
SEE CHOLESTANE SERIES, CHOLESTANES

5ALPHA-CHOLESTANES
SEE CHOLESTANE SERIES, CHOLESTANES

CHOLESTANOL
SEE CHOLESTANE SERIES, CHOLESTANOL

5BETA-CHOLESTAN-3BETA-OL
SEE CHOLESTANE SERIES 5-BETA, COPROSTEROL

CHOLESTEROL
SEE CHOLESTANE SERIES, CHOLESTEROL

CHOLESTEROL ANALOGS
SEE CHOLESTANE SERIES, CHOLESTEROL ANALOGS

CHOLESTEROL ESTER DEFICIENCY, FAMILIAL
SEE METABOLIC DISORDERS INBORN, LCAT DEFICIENCY

CHOLESTEROL ESTER STORAGE DISEASE
SEE METABOLIC DISORDERS INBORN, LIPID (NEUTRAL) STORAGE, CHOLESTEROL ESTER STORAGE DISEASE

CHOLESTEROL ESTER AND TRIGLYCERIDE STORAGE DISEASE WITH ADRENAL CALCIFICATION
SEE METABOLIC DISORDERS INBORN, LIPID (NEUTRAL) STORAGE, WOLMAN'S DISEASE

CHOLESTEROL ESTERASE
SEE ESTERASES, CHOLESTEROL ESTERASE

CHOLESTEROL ESTERS
SEE CHOLESTANE SERIES, CHOLESTEROL ESTERS

CHOLESTEROL INHIBITORS
SEE CHOLESTANE SERIES, CHOLESTEROL INHIBITORS

CHOLESTEROL OXIDES
SEE CHOLESTANE SERIES, CHOLESTEROL OXIDES

CHOLESTERYL ESTERS
SEE CHOLESTANE SERIES, CHOLESTEROL ESTERS

CHOLESTYRAMINE
SEE AMMONIUM QUATERNARY, CHOLESTYRAMINE

CHOLINE
SEE ALSO PHOSPHOLIPIDS, GLYCEROPHOSPHORIC ESTERS, GLYCEROPHOSPHORYLCHOLINE
SEE ALSO PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, LECITHINS
SEE ALSO PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, LYSOLECITHIN
SEE ALSO PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PLASMALOGENS
SEE ALSO PHOSPHOLIPIDS, PHOSPHOSPHINGOLIPIDS, SPHINGOMYELINS
SEE ALSO PHOSPHORYLCHOLINE
** R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)
R01HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
R01HL-16436-04 Role of calcium and thyroxine in heart function (rats)
R01HL-18731-02 RES stimulating materials in experimental shock (dogs)
** R01HL-22500-01 Conversion of choline to phosphatidylcholine in lung (rabbits, pigs)
R01HL-23003-01 Bulk-surface distribution of cholesteryl esters
R01HL-23969-01 Surfactant synthesis by type II cells in vitro (rats)

CHOLINE, ACETYLCHOLINE
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, PARASYMPATHOMIMETIC
SEE ALSO NEUROTRANSMITTER RECEPTORS, CHOLINERGIC RECEPTORS
R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
** P01HL-06308-18 0039 Mechanisms and therapy of circulatory disease - ANS in regulation of electrophysiology--Role of cyclic nucleotides (animals)
R01HL-07723-15 Reflex control of vascular capacitance in shock
R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
P01HL-08682-15 0018 Regulation of the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)
P01HL-10342-13 0011 The integrated function of respiration and circulation - Control of respiration 1--Peripheral chemoreceptor studies (cats)
P01HL-10342-13 0024 The integrated function of respiration and circulation - Cytochrome P450 and physiological response to hypoxia (rats)
R01HL-10951-11 Neural control of the heart (dogs, rats)
P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
P01HL-11678-11 0068 Cardiovascular dynamics and their control - Basic hemodynamics (rats, dogs)
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
R01HL-13349-06 Analysis of activation process in heart muscle (guinea pigs, rabbits, human)
R01HL-13437-09 Physical and mechanical parameters in the microcirculation (animals)
R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)
P01HL-14388-07 0157 Regulation of the circulation in pathological states - Autoregulation of renal blood flow and distribution in sodium excretion control
P01HL-14388-07 0211 Regulation of the circulation in pathological states - Choline acetyltransferase activity (rats)
R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
** R01HL-15677-06 Autonomic nervous system function in bronchial asthma (human, guinea pig, rabbit)
R01HL-15805-06 Cerebral arterial tone and reactivity (rabbits)
P01HL-15835-06 0018 Study of muscles related to heart disease - Pharmacology of excitation coupling in muscle (frog, barnacles)
R01HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
P01HL-16117-05 0003 Ion movements and membranes in cardiovascular control - Fast kinetic study of calcium membrane interactions
P01HL-16117-05 0006 Ion movements and membranes in cardiovascular control - Neuroreceptors and cellular excitation (fish)
R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
R01HL-16318-21 Biochemistry and pharmacology of Na-K transport
R01HL-16436-04 Role of calcium and thyroxine in heart function (rats)
R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
P01HL-16878-05 0004 Control of ventilation in health and disease - Neurotransmitters in the respiratory system (cats)
P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
** R01HL-17799-02 The presence and significance of heart acetylcholine (cats)
R01HL-17847-04 Cardiovascular and renal functions of marmots
R01HL-18148-04 Adrenal catecholamine secretion
R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
R01HL-19076-03 Vagal control of heart rate--A biophysical model (rabbits)
P01HL-19242-02 0007 Study of vascular smooth muscle NE release in and reactivity of vascular smooth muscle (animals)
R01HL-19653-03 Circulatory system effects of angiotensin analogs (rats)
R01HL-20793-02 Phospholipids and cardiac receptor function
R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
** R01HL-21195-02 Innervation of the heart--Acetylcholine receptors (frogs)
R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)
R23HL-21539-02 Mechanical properties of isolated small bronchioles (rabbits)
** R01HL-21574-01 Automaticity of AV node and its adjacent tissues (dogs)
P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)
R01HL-21799-01 Circumventricular sites of pressor action of angiotensin II (rats)
R01HL-21860-18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)
R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
R01HL-22235-01 Mechanism of cardiac pacemaking (rabbits)
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
R01HL-22484-01 Neural control of cardiac conduction and excitation (dogs)
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
R23HL-22728-01 Neural control of renin secretion (dogs)
R23HL-22932-01 Effect of carbon dioxide on local gas exchange (dogs)

CHOLINE, CARBACHOL
R01HL-21799-01 Circumventricular sites of pressor action of angiotensin II (rats)
R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)

CHOLINE, METHACHOLINE
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
R01HL-10009-13 Regional lung function in man
P50HL-14153-07 0011 Johns Hopkins Lung Center--Chronic diseases of airways - Allergy, airways reactivity and asthma in human ragweed allergy
R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)

CHOLINE ACETYLTRANSFERASE
SEE TRANSACYLASES, CHOLINE TRANSACYLASE

CHOLINE DEFICIENCY, NUTRITIONAL
SEE NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS B, CHOLINE DEFICIENCY

CHOLINE ESTERASES
R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)
P01HL-10342-13 0011 The integrated function of respiration and circulation - Control of respiration 1--Peripheral chemoreceptor studies (cats)
R01HL-15125-07 Molecular pathology of genetic disorders in man

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

CHOLINE ESTERASES, ACETYLCHOLINESTERASE
P01HL-08682-15 0006 Regulation of the cardiovascular system - Cardiovascular studies of mammalian hibernators (sciuromorpha)
P01HL-08682-15 0011 Regulation of the cardiovascular system - Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels)
R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)
R01HL-22226-01 Autonomic nervous elements in the developing heart (rabbits)
R01HL-23013-01 Smooth muscle development in vitro (chick embryo)

CHOLINE PHOSPHATASE
SEE PHOSPHOLIPASE, PHOSPHATIDYLCHOLINE PHOSPHATIDOHYDROLASE

CHOLINE TRANSACETYLASE
SEE TRANSACYLASES, CHOLINE TRANSACYLASE

CHOLINERGIC AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, PARASYMPATHOMIMETIC

CHOLINERGIC BLOCKING AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, PARASYMPATHOLYTIC

CHOLINERGIC RECEPTORS
SEE NEUROTRANSMITTER RECEPTORS, CHOLINERGIC RECEPTORS

CHOLOXIN
SEE THYROID HORMONES, DEXTROTHYROXINE

CHONDROITINASE (HYALURONOGLUCOSIDASE)
SEE CARBOHYDRASES, HYALURONIDASE

CHONDROITIN SULFATE
SEE POLYSACCHARIDES, GLYCOSAMINOGLYCANS, CHONDROITIN SULFATE

CHONDROITIN SULFATE B
SEE POLYSACCHARIDES, GLYCOSAMINOGLYCANS, DERMATAN SULFATE

CHONDROMUCOPROTEINS
SEE PROTEOGLYCANS

CHORDOTOMY SURGICAL
SEE NEUROSURGERY, SPINAL CORD LESIONS SURGICAL

CHORIONIC GONADOTROPIN
SEE REPRODUCTIVE HORMONES, GONADOTROPINS CHORIONIC

CHORIONIC GROWTH HORMONE-PROLACTIN
SEE REPRODUCTIVE HORMONES, CHORIONIC SOMATOMAMMOTROPIN

CHORIONIC SOMATOMAMMOTROPIN
SEE REPRODUCTIVE HORMONES, CHORIONIC SOMATOMAMMOTROPIN

CHOROID PLEXUS
SEE BRAIN, CENTRAL SPACES, CHOROID PLEXUS

CHOROIDAL CIRCULATION
SEE EYE CIRCULATION, RETINAL-CHOROIDAL CIRCULATION

CHOROIDAL DISORDERS (GENERAL)
SEE EYE DISORDERS, RETINA AND CHOROID DISORDERS (GENERAL)

CHRISTMAS DISEASE
SEE BLOOD COAGULATION DISORDERS, CHRISTMAS DISEASE

CHRISTMAS FACTOR
SEE BLOOD COAGULATION, FACTOR IX

CHROMAFFIN SYSTEM
SEE NERVOUS SYSTEM, PARAGANGLIA

CHROMAFFINOMA
SEE NEOPLASMS OF NERVOUS SYSTEM, PARAGANGLIA NEOPLASMS, PHEOCHROMOCYTOMA

CHROMAFFINOMA, ENTEROCHROMAFFIN
SEE NEOPLASMS OF NERVOUS SYSTEM, CARCINOID

CHROMATIN
SEE GENETICS, CHROMOSOMES, CHROMATIN

CHROMATOGRAPHY
SEE PHYSICAL SEPARATION, CHROMATOGRAPHY*

CHROMATOPHORES
SEE PIGMENTATION, CHROMATOPHORES

CHROMIUM (COMPOUNDS)
SEE METALS, HEAVY METALS, CHROMIUM

CHROMIUM RADIOISOTOPES (51)
SEE RADIOISOTOPES, CHROMIUM

CHROMOPHORE (GROUP), CHEMISTRY
SEE OPTICS, CHROMOPHORE*

CHROMOSOME ABNORMALITIES
SEE GENETIC DISORDERS, CHROMOSOME ABNORMALITIES

CHROMOSOME DELETION
SEE GENETICS, MUTATION, CHROMOSOME MUTATION, DELETION

CHROMOSOME NUMBER ABNORMALITIES
SEE GENETIC DISORDERS, CHROMOSOME ABNORMALITIES

CHROMOSOMES
SEE GENETICS, CHROMOSOMES

CHRONIC DISEASES (DISORDERS)
SEE DISEASES, CHRONIC (GENERAL)

CHRONIC LEUKEMIA
SEE NEOPLASMS OF BLOOD AND RE SYSTEM, LEUKEMIA CHRONIC

CHRONIC NONSPECIFIC LUNG DISEASE
SEE RESPIRATORY DISORDERS, BRONCHITIS CHRONIC AND EMPHYSEMA

CHRONIC TREATMENT, DRUGS
SEE DOSAGE AND ROUTE, RATE AND DURATION OF ADMINISTRATION

CHYLOMICRONS
SEE LIPIDS, CHYLOMICRONS

CHYLOPERITONEUM
SEE BODY CAVITY DISORDERS, PERITONEAL EFFUSIONS, ASCITES

CHYMOTRYPSIN
SEE PROTEASES AND PEPTIDASES, CHYMOTRYPSIN

CHYMOTRYPSIN B
SEE PROTEASES AND PEPTIDASES, CHYMOTRYPSIN

CIGARETTE SMOKING
SEE PSYCHOLOGY, HABITS, SMOKING

CIGARETTES
SEE CONSUMER PRODUCTS, TOBACCO AND TOBACCO PRODUCTS

CIGAR SMOKING
SEE PSYCHOLOGY, HABITS, SMOKING

CIGARS
SEE CONSUMER PRODUCTS, TOBACCO AND TOBACCO PRODUCTS

CILIA
SEE CELL COMPONENTS, CILIA

CILIARY MOVEMENT
SEE CELL COMPONENTS, CILIARY MOVEMENT

CILIOINHIBITORY TEST
SEE DIAGNOSTIC TESTS, CYTODIAGNOSIS, CILIOINHIBITORY TEST*

CINEANGIOCARDIOGRAPHY
SEE HEART VISUALIZATION, CINEANGIOCARDIOGRAPHY*

CINEFLUOROGRAPHY
SEE RADIOGRAPHY, CINEFLUOROGRAPHY*

CINEMATOGRAPHY
SEE OPTICS, PHOTOGRAPHY, CINEMATOGRAPHY*

CINEMICROGRAPHY
SEE OPTICS, PHOTOGRAPHY, CINEMICROGRAPHY*

CIRCADIAN RHYTHMS
SEE BIOPERIODICITY, CIRCADIAN RHYTHMS

CIRCULAR DICHROISM
SEE OPTICS, DICHROISM CIRCULAR*

CIRCULAR DNA
SEE NUCLEIC ACIDS, DNA CIRCULAR

CIRCULATION
SEE ADRENAL CIRCULATION
SEE CARDIOVASCULAR FUNCTION, BLOOD CIRCULATION DYNAMICS (GENERAL)
SEE CARDIOVASCULAR SYSTEM
SEE CEREBROVASCULAR SYSTEM, BRAIN CIRCULATION
SEE CEREBROVASCULAR SYSTEM, CEREBRAL CIRCULATION
SEE EYE CIRCULATION
SEE GASTROINTESTINAL CIRCULATION
SEE HEART CIRCULATION
SEE KIDNEY CIRCULATION
SEE LIVER CIRCULATION
SEE PREGNANCY CIRCULATION
SEE RESPIRATORY CIRCULATION
SEE SKELETAL SYSTEM CIRCULATION
SEE SKIN CIRCULATION

CIRCULATION TIME
SEE CARDIOVASCULAR FUNCTION, BLOOD CIRCULATION TIME

CIRCULATORY ASSIST
SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST

CISCLOMIPHENE
SEE STILBENES, CLOMIPHENE

CIS-TRANS ISOMERIZATION
SEE CHEMICAL STRUCTURE, ISOMERS, CIS-TRANS ISOMERIZATION

CISTRONS
SEE GENETICS, GENES

CITIES
SEE SOCIOENVIRONMENT, URBAN AREAS

CITRATE CONDENSING ENZYME
SEE OXO-ACID-LYASES, CITRATE (SI) SYNTHASE

CITRATE OXALOACETATE LYASE (COA-ACETYLATING)
SEE OXO-ACID-LYASES, CITRATE (SI) SYNTHASE

CITRATE (SI) SYNTHASE
SEE OXO-ACID-LYASES, CITRATE (SI) SYNTHASE

CITRATES
SEE TRICARBOXYLIC ACIDS, CITRATES

CITRIC ACID
SEE TRICARBOXYLIC ACIDS, CITRATES

CITRIC ACID CYCLE
SEE TRICARBOXYLIC ACIDS, KREBS CYCLE

CLASSIFICATION (GENERAL)
SEE INFORMATION AND COMMUNICATION, CLASSIFICATION (GENERAL)

CLEARINGHOUSES
SEE INFORMATION SYSTEMS (INCL BANKS AND CENTERS)

CLEAVAGE
SEE CHEMICAL BONDS, BOND CLEAVAGE

CLIMATE
SEE ENVIRONMENT, CLIMATE

CLIMATE CHAMBER CONTROLLED
SEE ENVIRONMENTAL CHAMBER CONTROLLED

CLIMATRON
SEE ENVIRONMENTAL CHAMBER CONTROLLED

CLINICAL CHEMISTRY
SEE CHEMISTRY, CLINICAL

CLINICAL DATA COMPUTER PROCESSING
SEE BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER PROCESSING OF CLINICAL DATA

CLINICAL RESEARCH CENTERS
M P01HL-06314-17 Immunologic mechanisms in cardiovascular disease
M P50HL-14138-05 Center for research on atherosclerosis
M P50HL-14141-05 SCOR for atherosclerosis in childhood
M P50HL-14218-07 Pulmonary SCOR–Newborn lung center
P01HL-14388-07 9004 Regulation of the circulation in pathological states - Core biostatistics unit
M P60HL-15158-07 Comprehensive sickle cell center
M P60HL-15169-05 Support for center for sickle cell disease
M P01HL-15265-05 Program on surgical control of the hyperlipidemias
** P01HL-15265-05 0013 Program on surgical control of the hyperlipidemias - Clinical center - Minnesota
** P01HL-15265-05 0014 Program on surgical control of the hyperlipidemias - Arkansas clinical center
M P50HL-17648-04 Study of ischemic heart disease
N01HV-22917-11 Lipid research clinic (human)
N01HV-32933-07 Hypertension detection and follow-up program central laboratory (human)
** N01HV-42929-08 Risk factor intervention trial for the prevention of CHD (human)
** N01HV-42930-09 Risk factor intervention trial for the prevention of CHD (human)
** N01HV-42931-07 Risk factor intervention trail for the prevention of CHD (men)

CLINICAL TRIALS REVIEW COMMITTEE
** R01HL-04697-17 International heart disease epidemiology (human)
** R01HL-08888-12 Cooperative study of drugs and coronary heart disease (men)
** R01HL-08892-10 Cooperative study of drugs and coronary heart disease
** R01HL-09474-11 Natural history-congenital heart defects–Joint study (human)
** R01HL-09476-10 Natural history, congenital heart defects–Joint study
** R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
** R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
** R01HL-10711-12 Cooperative study of treatment of hypertension (human)
** R01HL-10718-10 Natural history of congenital heart defects–Joint study (human)
** R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)

(contd)

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See Appendix for investigator's name and grant number.

** R01HL-12542-07 Natural history, congenital heart defects-Joint study (human)
** R01HL-16908-04 Myocardial function, risk factors and future CHD (men)
** R01HL-16909-04 Myocardial function, risk factors and future CHD (men)
** R01HL-19858-03 UMMC-Blood pressure precursors and consequences (human)
** R01HL-19859-03 Epidemiological studies, precursors of hypertension (human)
M R01HL-19864-03 Blood pressure of children and young adults
** R01HL-19869-03 Antecedents of adolescent hypertension (human)
** R01HL-19870-03 Hypertensive progeny-Physical and humoral precursor search
** R01HL-19922-03 Childhood determinants of blood pressure
** R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
** R01HL-19930-03 A prospective study-Blood pressure in newborn twins
** R01HL-19956-03 High blood pressure in the young (human)
** R01HL-19962-03 High blood pressure in young people in Tecumseh
** R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
** R01HL-20005-03 Factors in blood pressure levels of children
** R01HL-20034-03 Hypertension--Psychophysiologic and genetic precursors (human)
** R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)
** R01HL-20244-02 he impact of hypertension information
** R01HL-20245-01 The impact of hypertension information
** R01HL-20247-01 The impact of hypertension information
** R01HL-20248-01 The impact of hypertension information
** R01HL-20374-03 Myocardial function--Risk factors and future CHD (human)
** R01HL-22298-02 Origins of hypertension (human)
** R01HL-23194-02 Genetics of hypertension and associated variables (human)

CLINICS (GENERAL)
SEE HEALTH CARE FACILITIES, OUTPATIENT FACILITIES

CLINICS (HOSPITAL)
SEE HOSPITALS, OUTPATIENT FACILITIES

CLOFIBRATE
SEE PHENOXYCARBOXYLATES, CLOFIBRATE

CLOMIPHENE
SEE STILBENES, CLOMIPHENE

CLONE CELLS
SEE TISSUE (CELL) CULTURE, CLONE CELLS*

CLONIDINE
SEE IMIDAZOLES, CATAPRES

CLOT DESTRUCTION
SEE BLOOD COAGULATION, FIBRINOLYSIS

CLOT FILTERS
SEE BLOOD TREATMENT, BLOOD FILTERS

CLOT RETRACTING FACTOR
SEE BLOOD COAGULATION, THROMBOSTHENIN

CLOT RETRACTION
SEE BLOOD COAGULATION, CLOT RETRACTION

CLOTTING FACTORS (GENERAL)
SEE BLOOD COAGULATION, CLOTTING FACTORS (GENERAL)

CNS CIRCULATION
SEE CEREBROVASCULAR SYSTEM
SEE CEREBROVASCULAR SYSTEM, BRAIN CIRCULATION

COAGULANT DRUGS
SEE BLOOD COAGULATION, HEMOSTATICS

COAGULATION
SEE BLOOD COAGULATION
SEE PROTEINS COAGULATION

COALESCENCE
SEE PHYSICAL PROPERTIES, COALESCENCE

COARCTATION OF THE AORTA
SEE CARDIOVASCULAR DISORDERS, AORTA OBSTRUCTIONS, AORTA COARCTATION

COBALT (COMPOUNDS)
SEE METALS, HEAVY METALS, COBALT

COBOGLOBINS
SEE PORPHYROPROTEINS, COBOGLOBINS

COCAINE
SEE TROPANES, COCAINE

COCCI, GRAM-NEGATIVE
SEE BACTERIA, GRAM-NEGATIVE*

COCHLEA
SEE EAR, LABYRINTH, COCHLEA

COCHLEAR MICROPHONICS
SEE EAR, HEARING, COCHLEAR MICROPHONICS

CO-CULTIVATION (MIXED CELL CULTURES)
SEE TISSUE (CELL) CULTURE, MIXED CULTURES

CODING (BIOLOGICAL)
SEE INFORMATION PROCESSING AND CONTROL (BIOLOGICAL)

CODING (GENETIC)
SEE GENETICS, GENETIC CODING

CODING (NEURAL)
SEE INFORMATION PROCESSING AND CONTROL (NEURAL)

CODING AND INDEXING
SEE INFORMATION SYSTEMS, INDEXING

CODON
SEE GENETICS, GENETIC CODING

COE VIRUS (COXSACKIE A-21)
SEE VIRUSES, PICORNAVIRUSES, COXSACKIE VIRUSES

COELENTERATES, ANTHOZOA*
** R01HL-15991-05 Evaluation of heart stimulants in sea anemones

COELOM
SEE BODY CAVITY DISORDERS, PERITONEAL

COENZYME I
SEE PYRIDINE NUCLEOTIDES, NICOTINAMIDE RIBOTIDES, NAD(H2)

COENZYME A
SEE COENZYMES, COENZYME A

COENZYME A TRANSFERASES
SEE TRANSSULFURASES, COENZYME A TRANSFERASES

COENZYMES
SEE ALSO AMINO ACIDS, CREATINE PHOSPHATE
SEE ALSO FLAVIN NUCLEOTIDES, RIBOFLAVIN NUCLEOTIDES, FAD
SEE ALSO FOLIC ACID
SEE ALSO HEMOPROTEINS, CYTOCHROME
SEE ALSO NUCLEOSIDES
SEE ALSO NUCLEOTIDES
SEE ALSO PEPTIDES, GLUTATHIONE
SEE ALSO PYRIDINE NUCLEOTIDES, NICOTINAMIDE RIBOTIDES, NAD(H2)
SEE ALSO VITAMIN B, BIOTIN
SEE ALSO VITAMIN B, LIPOIC ACID
SEE ALSO VITAMIN C
SEE ALSO VITAMINS METABOLISM
R01HL-13035-08 Heart mitochondrial malate dehydrogenase regulation
R01HL-18089-04 Fatty acid metabolism in heart and its regulation (swine, rats)
R01HL-21912-01 Biosynthesis of lipoic acid and atherosclerosis (birds, chick embryos)

COENZYMES, COENZYME A
R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
P01HL-06285-18 0207 Cardiovascular-respiratory physiology and biochemistry - Feedback control of cholesterol synthesis in non-hepatic tissues (animals)
R01HL-13028-09 Regulation of myocardial fatty acid metabolism (rats)

COENZYMES, COENZYME A, ACETYL-COA
R01HL-09610-14 Control of cholesterol metabolism--Bile acid transport
R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)
R01HL-20909-02 Clofibrate-enhanced lipid oxidation by peroxisomes (rats)

COENZYMES, COENZYME A, ACYL-COA
R01HL-03734-18 Metabolism of arterial tissue in atherosclerosis (rabbits)
R01HL-13028-09 Regulation of myocardial fatty acid metabolism (rats)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
R01HL-20909-02 Clofibrate-enhanced lipid oxidation by peroxisomes (rats)
P01HL-20948-02 0001 Molecular basis of cholesterol metabolism - Biochemical and ultrastructural characterization of LDL in human fibroblasts
R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)
R01HL-23161-01 0001 Biology of myocardial ischemia - Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)
R01HL-23166-01 Pathology of mitochondria in ischemic myocardium (rats, cattle)

COFACTORS, COENZYMES
SEE COENZYMES

COFFEE
SEE FOOD, BEVERAGES, COFFEE

COGNITION
SEE PSYCHOLOGY, COGNITION

COGNITIVE CONTROL OF VISCERAL RESPONSES
SEE PSYCHOLOGY, CONDITIONING, AUTOGENIC AND INTERNAL CONTROL

COLCHICINE
SEE ALKALOIDS, COLCHICINE

COLD
SEE TEMPERATURE, COLD

COLD AGGLUTININ POSITIVE PNEUMONIA
SEE RESPIRATORY DISORDERS, PNEUMONIA MYCOPLASMAL (PPLO)

COLD CLIMATE
SEE ENVIRONMENT, CLIMATE, COLD

COLD PRECIPITABLE FIBRINOGEN
SEE BLOOD COAGULATION, CRYOFIBRINOGEN

COLD STRESS
SEE ENVIRONMENT, STRESS, COLD INDUCED

COLESTIPOL
SEE CHOLESTANE SERIES, CHOLESTEROL INHIBITORS, COLESTIPOL

COLLABORATIVE STUDY
SEE COOPERATIVE STUDY

COLLAGEN
SEE ALBUMINOIDS, COLLAGEN

COLLAGEN DISEASES
SEE CONNECTIVE TISSUE DISORDERS, COLLAGEN DISEASES

COLLAGENASE
SEE PROTEASES AND PEPTIDASES, COLLAGENASE

COLLATERAL CIRCULATION
SEE CARDIOVASCULAR SYSTEM, BLOOD SUPPLY, COLLATERAL CIRCULATION

COLLATERAL RESPIRATION
SEE RESPIRATORY SYSTEM, COLLATERAL RESPIRATION

COLLEGES
SEE EDUCATION, UNIVERSITIES

COLLICULUS INFERIOR
SEE BRAIN, MESENCEPHALON, COLLICULUS INFERIOR

COLLOIDS
SEE PHYSICAL PROPERTIES, COLLOIDS, COLLOIDAL STATE

COLOBUS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS (CATARRHINES)*

COLOMBIAN ARROW POISON (BATRACHOTOXIN)
SEE TOXICOLOGY, ANIMAL POISONS, BATRACHOTOXIN

COLON
SEE GASTROINTESTINAL SYSTEM, INTESTINES, LARGE INTESTINE, COLON

COLOR VISION
SEE EYE, VISION, COLOR VISION

COLYONES
SEE CELL GROWTH REGULATION, CHALONES

COMBINATION CHEMOTHERAPY
SEE DRUGS, CHEMOTHERAPY, DRUGS COMBINATION

COMMUNICABLE DISEASE CONTROL
SEE ALSO IMMUNITY, IMMUNIZATION (IMMUNOTHERAPY)
** R01HL-19818-02 Endocarditis on prosthetic heart valves (rabbits, human)
R01HL-20170-02 Pulmonary infection in splenectomized animals (mice)
R01HL-21632-02 Development of a transcutaneous power transfer system (cattle)
R01HL-22520-01 Pulmonary vascular response to group B Streptococci (human, mammals)

COMMUNICABLE DISEASE CONTROL AGENTS
SEE ALSO ANTIBIOTICS
SEE ALSO COMMUNICABLE DISEASES CHEMOTHERAPY
SEE ALSO IMMUNOLOGICAL PREPARATIONS (GENERAL)(INCLUDING CERTIFICATION AND STANDARDIZATION)
SEE ALSO PESTICIDES
R01HL-07502-13 Phytochemistry of the genus thalictrum (dogs, plants)

COMMUNICABLE DISEASE CONTROL AGENTS, ANTIBACTERIAL
SEE ALSO ANTIBIOTICS
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

COMMUNICABLE DISEASE CONTROL AGENTS, ANTIFUNGAL
R01HL-07502-13 Phytochemistry of the genus thalictrum (dogs, plants)
R01HL-20675-02 Alveolar macrophage function in man
R01HL-22532-01 Inhibitors of cholesterol biosynthesis (rats, mice, yeast)

COMMUNICABLE DISEASE CONTROL AGENTS, ANTIMALARIALS
R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)

COMMUNICABLE DISEASE CONTROL AGENTS, ANTIVIRAL
SEE ALSO IMMUNOLOGY, INTERFERON
SEE ALSO VACCINES, VIRAL VACCINES (GENERAL)
R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions

COMMUNICABLE DISEASE TRANSMISSION
** N01HB-62908-07 Maternal to infant transmission of hepatitis B (human)
** P01HL-09011-15 0018 A research and resource program in blood - Hepatitis B in normal populations--Epidemiology, risk factors and transmission
P01HL-09011-15 0020 A research and resource program in blood - Passive immunization in the prevention of transmission of hepatitis B (human)

COMMUNICABLE DISEASE TRANSMISSION, CARRIER STATE (COMMUNICABLE DISEASE)
P60HL-23282-01 0004 Comprehensive hospital/community sickle cell center - Bacterial, viral and mycoplasmal infections and sickle cell disease complications

COMMUNICABLE DISEASES (GENERAL)
SEE ALSO BACTERIAL DISEASES
SEE ALSO BLOOD TOXICOLOGY, BACTEREMIA-SEPTICEMIA
SEE ALSO CARDIOVASCULAR INFECTIONS
SEE ALSO HOSPITALS INFECTIONS
SEE ALSO IMMUNOLOGY, MICROBIAL
SEE ALSO INJURIES, SURGICAL WOUND INFECTION
SEE ALSO MICROORGANISMS VIRULENCE
SEE ALSO NEOPLASMS, CANCER COMPLICATIONS OF, INFECTIONS
SEE ALSO RESPIRATORY INFECTIONS
SEE ALSO VIRUS DISEASES
N01HB-62970-02 Collection, function and transfusion of granulocytes
N01HB-62973-05 Collection, function and transfusion of granulocytes

COMMUNICABLE DISEASES, INFECTIONS, SECONDARY
SEE ALSO NEOPLASMS, CANCER COMPLICATIONS OF, INFECTIONS
P01HL-06370-17 0016 Cardiopulmonary and renal pathology research center - Endocarditis with pulmonary artery catheters (dogs)
** R01HL-20002-03 Pulmonary complications of viral infections (children)
R01HL-20314-02 Host defense against S pneumoniae in sickle cell disease (human)
R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)

COMMUNICABLE DISEASES CHEMOTHERAPY
SEE ALSO COMMUNICABLE DISEASE CONTROL AGENTS
** P60HL-15996-06 0003 Cincinnati comprehensive sickle cell center - Prophylactic penicillin in treatment of sickle cell anemia (human)
R01HL-22520-01 Pulmonary vascular response to group B Streptococci (human, mammals)

COMMUNICABLE DISEASES DIAGNOSIS*
R01HL-13885-08 0006 Cystic fibrosis and pulmonary disease - Cell mediated immunity and Pseudomonas infections in cystic fibrosis (human)
R01HL-13885-08 0007 Cystic fibrosis and pulmonary disease - Alveolar macrophage defense mechanism (human, rabbits)
R01HL-13885-08 0008 Cystic fibrosis and pulmonary disease - Pseudomonas specific activation of alveolar macrophages (human, rabbits)
R01HL-22838-01 Post-transfusion hepatitis in newborn children

COMMUNICATION (GENERAL)
SEE INFORMATION AND COMMUNICATION (GENERAL)

COMMUNICATIVE SCIENCES STUDY SECTION
** R01HL-19975-02 Laryngeal biomechanics in pulmonary therapy (primates)

COMMUNITY HEALTH SERVICES
SEE HEALTH CARE SERVICES, COMMUNITY HEALTH SERVICES

COMMUNITY MENTAL HEALTH CENTERS
SEE MENTAL HEALTH SERVICES, COMMUNITY MENTAL HEALTH SERVICES

COMMUNITY MENTAL HEALTH SERVICES
SEE MENTAL HEALTH SERVICES, COMMUNITY MENTAL HEALTH SERVICES

COMPENSATORY TRACKING
SEE PSYCHOMOTOR FUNCTION, TRACKING TASK

COMPETITION
SEE PSYCHOLOGY SOCIAL, COMPETITION

COMPLEMENT
SEE IMMUNOLOGY, COMPLEMENT

COMPLEMENT ESTERASE DEFICIENCY OR DYSFUNCTION
SEE METABOLIC DISORDERS INBORN, ANGIONEUROTIC EDEMA (HEREDITARY)

COMPLEMENT INHIBITORS
SEE IMMUNOLOGY, COMPLEMENT INHIBITORS

COMPLEMENTATION
SEE GENETICS, GENES, GENE INTERACTION, COMPLEMENTATION

COMPLEXES
SEE ENZYME COMPLEXES
SEE ENZYME SUBSTRATE COMPLEX
SEE METAL COMPLEXES

COMPLICATIONS (DISEASE ORIENTED)
SEE DISEASES, COMPLICATIONS

COMPLICATIONS OF CANCER
SEE NEOPLASMS, CANCER COMPLICATIONS OF

COMPLICATIONS OF CANCER, INFECTIONS
SEE NEOPLASMS, CANCER COMPLICATIONS OF, INFECTIONS

COMPREHENSIVE HEALTH CARE
SEE HEALTH CARE SERVICES, PATIENT CARE MANAGEMENT, COMPREHENSIVE CARE

COMPREHENSIVE HEALTH PLANNING
SEE HEALTH CARE (SERVICES)(RESOURCES) PLANNING, COMPREHENSIVE

COMPRESSION-DECOMPRESSION, ATMOSPHERIC PRESSURE
SEE ENVIRONMENT, ATMOSPHERIC PRESSURE, COMPRESSION-DECOMPRESSION

COMPUTER (GENERAL) INCL COMPUTER DATA PROCESSING (GENERAL)
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED
SEE ALSO EDUCATION, PROGRAMMED INSTRUCTION, TEACHING MACHINES
P50HL-14136-07 9001 Pulmonary SCOR--Airways obstructive diseases - Biometrics core

COMPUTER, ARTIFICIAL INTELLIGENCE, PATTERN RECOGNITION AND CONTROL SYSTEMS
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED DIAGNOSIS
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED MEDICAL DECISION MAKING
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED PATIENT CARE
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, PATIENT MONITORING (MONITORING DEVICES)
SEE ALSO COMPUTER SIMULATION
SEE ALSO OPTICS, IMAGE PROCESSING ANALYSIS AND DISPLAY*
P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
** P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
P01HL-07293-17 0042 Non-invasive cardiovascular measurements - Ventricular imaging software (human)
R01HL-07575-15 Analysis of time-coherent cardiovascular data
R01HL-10417-12 Multiple systems in electrocardiography (human)
R01HL-13885-08 9001 Cystic fibrosis and pulmonary disease - Pulmonary function core facility (infants, children)
R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
R01HL-16908-04 Myocardial function, risk factors and future CHD (men)
R01HL-16909-04 Myocardial function, risk factors and future CHD (men)
P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
R01HL-17702-04 Electro-optical dyes as probes of heart excitability
** R01HL-17931-04 Normalized body surface potential maps (children)
** R01HL-18968-03 Computer technology for transaxial tomography
R01HL-20374-03 Myocardial function--Risk factors and future CHD (human)
** R23HL-21292-01 Human ventricular activation--Patterns and mechanisms (human)
R01HL-21785-01 Left ventricular wall motion analysis

COMPUTER, DATAPHONE
R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
R01HL-16791-03 Computer linkage for a dual camera system
R01HL-20835-02 Signal analysis of turbulence study in blood

COMPUTER, DESIGN AND EVALUATION OF COMPUTERS (INCL. HARDWARE)
P50HL-17667-04 0042 Study of ischemic heart disease - Core--Central instrumentation and software

COMPUTER, MAN-COMPUTER INTERACTION
P01HL-04664-18 0004 Cardiovascular and lung dynamics - X-ray cross section imaging of the circulation (dogs)

COMPUTER, ON-LINE COMPUTERS*
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED PATIENT CARE
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, PATIENT MONITORING (MONITORING DEVICES)
SEE ALSO COMPUTER, ARTIFICIAL INTELLIGENCE, PATTERN RECOGNITION AND CONTROL SYSTEMS
M P01HL-11307-12 Biophysical studies in pediatric cardiology
** P01HL-11307-12 9001 Biophysical studies in pediatric cardiology - Core support--computer science
** P01HL-11307-12 9002 Biophysical studies in pediatric cardiology - Biomedical engineering
R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
P01HL-14414-07 9002 Environmental influences on cardiorespiratory and cellular functions - Core--Computer facility
R01HL-15390-12 Regulation of blood flow in the microcirculation
P60HL-16008-06 0012 Wayne State University comprehensive sickle cell center - Central data management--Computer system
P50HL-17648-04 0033 Study of ischemic heart disease - Data management--Electrocardiographic analysis system
P50HL-17648-04 0034 Study of ischemic heart disease - Data management--Hemodynamic data
P50HL-17655-04 0012 Study of ischemic heart disease - DATA management
R01HL-18144-03 Preprocessor system for cardiograms (human)
** R01HL-18338-04 Computer feedback study of cardiac muscle mechanics (rats)
R01HL-19460-03 Mechanics of the papillary muscle and the left ventricle (cats, rabbits)
R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
R01HL-21846-01 Cardiac failure detection by radiography and optics (monkeys)
R01HL-22484-01 Neural control of cardiac conduction and excitation (dogs)
R01HL-23983-01 Quantitative radiocardiography (human, dogs)

COMPUTER, TIME-DEPENDENT COMPUTER DATA
P01HL-07293-17 0046 Non-invasive cardiovascular measurements - Cardiac scanner signal processors
R01HL-07575-15 Analysis of time-coherent cardiovascular data

COMPUTER ANALYSIS*
P01HL-08899-14 0077 Tolerance to respiratory gases in health and disease - Isobaric gas supersaturation patterns
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
** P50HL-14138-05 0014 Center for research on atherosclerosis - Core biostatistics laboratory
R01HL-16487-05 Computer controlled two dimensional echocardiography
P01HL-22619-01 9003 Cellular mechanisms of heart failure - Computer facility core

COMPUTER AND BIOMATHEMATICAL SCIENCES STUDY SECTION
** R01HL-07575-15 Analysis of time-coherent cardiovascular data
** R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
** R01HL-14651-05 Mechanical behavior of left ventricle (dogs, rats)
** R01HL-15622-05 Computer simulation in cardiology (rats, dogs)
** R01HL-16580-04 Mathematical models for studying sickle-cell disease
** R01HL-16791-03 Computer linkage for a dual camera system
** R01HL-18144-03 Preprocessor system for cardiograms (human)
** R01HL-18968-03 Computer technology for transaxial tomography
** R01HL-19824-02 Mass transfer in the microcirculation
** R23HL-21253-01 Anatomical models in computer-aided image analysis
** R01HL-21785-01 Left ventricular wall motion analysis
** R23HL-21855-01 Mathematical models of branching in the human lung

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

COMPUTER ASSISTED DIAGNOSIS
SEE BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED DIAGNOSIS

COMPUTER ASSISTED INSTRUCTION
SEE EDUCATION, COMPUTER ASSISTED INSTRUCTION

COMPUTER ASSISTED MEDICAL DECISION MAKING
SEE BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED MEDICAL DECISION MAKING

COMPUTER ASSISTED PATIENT CARE
SEE BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED PATIENT CARE

COMPUTER CENTERS
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED
SEE ALSO STATISTICAL SERVICE AND CENTERS

** P01HL-04664-18 0015 Cardiovascular and lung dynamics - Computer system for the cardiovascular laboratory
P01HL-11310-12 9003 Mechanisms of cardiovascular disease - Core support-biophysical sciences
** P01HL-11310-12 9004 Mechanisms of cardiovascular disease - Core support-computer facilities
** P01HL-12373-10 0014 Cardiopulmonary physiology and pathophysiology - Analog digital computation and simulation facility
** P50HL-14218-07 0011 Pulmonary SCOR--Newborn lung center - Administrative and computer core
** P50HL-15389-07 0020 Pulmonary SCOR--Hypersensitivity pneumonitis - Computer applications and data analysis core
** P01HL-18974-03 0017 Experimental neurogenic hypertension program - Computer-physiology core
** P50HL-19170-02 0010 Harvard pulmonary SCOR--Chronic diseases of the airways - Computer Core

COMPUTER CONTROL SYSTEMS (GENERAL)
SEE COMPUTER, ARTIFICIAL INTELLIGENCE, PATTERN RECOGNITION AND CONTROL SYSTEMS

COMPUTER DESIGN
SEE COMPUTER, DESIGN AND EVALUATION OF COMPUTERS (INCL. HARDWARE)

COMPUTER DIAGNOSIS
SEE BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED DIAGNOSIS

COMPUTER GRAPHICS
SEE COMPUTER PRINTING-GRAPHICS (GENERAL)

COMPUTER HARDWARE
SEE COMPUTER, DESIGN AND EVALUATION OF COMPUTERS (INCL. HARDWARE)

COMPUTER INFORMATION RETRIEVAL
SEE INFORMATION SYSTEMS, INFORMATION RETRIEVAL

COMPUTER PATIENT MONITORING
SEE BIOMEDICAL SYSTEMS AUTOMATED, PATIENT MONITORING (MONITORING DEVICES)

COMPUTER PATTERN RECOGNITION (OTHER THAN IMAGE-WAVESHAPE, OR COMPUTER SIMULATION OR DIAGNOSIS)
SEE COMPUTER, ARTIFICIAL INTELLIGENCE, PATTERN RECOGNITION AND CONTROL SYSTEMS

COMPUTER PRINTING-GRAPHICS (GENERAL)
SEE ALSO OPTICS, IMAGE PROCESSING ANALYSIS AND DISPLAY*

P01HL-04664-18 0004 Cardiovascular and lung dynamics - X-ray cross section imaging of the circulation (dogs)
P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
P01HL-07293-17 0042 Non-invasive cardiovascular measurements - Ventricular imaging software (human)
P01HL-07293-17 0047 Non-invasive cardiovascular measurements - Cardiac scanner system software
** P01HL-07293-17 0048 Non-invasive cardiovascular measurements - Cardiac scanner recording and display systems component
** P01HL-07293-17 0056 Non-invasive cardiovascular measurements - Peripheral vascular system software
R01HL-09831-12 Effect of resistivity variations on electrocardiogram (human)
P01HL-11307-12 9002 Biophysical studies in pediatric cardiology - Biomedical engineering
P01HL-11678-11 0017 Cardiovascular dynamics and their control - Overall control of circulation--Mathematical analyses
P01HL-13480-09 0032 Cardiac electrophysiology - Cardiac activation sequence (dogs)
P01HL-13480-09 0042 Cardiac electrophysiology - Computer modeling of arrhythmias
P01HL-13737-07 0025 Assisted circulation - Driving system based on quantitative criteria (human, dogs)
R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
R01HL-16828-04 Gradient and transport of oxygen in tissue and organs (mammals)
R01HL-16901-05 Multipolar linkage between heart geometry and surface (human, dogs)
P50HL-17646-04 0002 Study of ischemic heart disease Core data management
P50HL-17648-04 0032 Study of ischemic heart disease Data management-Statistics and data files
P50HL-17651-04 0033 Ischemic heart disease specialized center of research Core facilities-Computer sciences
P50HL-17682-04 0009 Study of ischemic heart disease Computer core unit
R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
P01HL-18576-03 0002 Thrombosis research program project - Molecular basis of fibrin formation (human, cattle, lamprey)
R01HL-18725-03 Light-scattering studies of the sickling process (human)
R01HL-18968-03 Computer technology for transaxial tomography
P01HL-19717-02 0044 Response of the lung to injury - Lung sound analysis (human)
R01HL-20883-02 Fiber geometry in hypertrophy and cardiomyopathy (human)
P01HL-21016-02 0001 Sickle cell anemia and other hemoglobinopathies - Supramolecular models of Hb S--Mutational and EM approach
R01HL-21088-02 Genetic patterns in deaths from MI and stroke in Utah
R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)

COMPUTER PROCESSING OF BIOMEDICAL DATA (GENERAL)
SEE BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER PROCESSING OF LABORATORY DATA (GENERAL)

COMPUTER PROCESSING OF CLINICAL DATA
SEE BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER PROCESSING OF CLINICAL DATA

COMPUTER PROCESSING OF LABORATORY (BIOMEDICAL) DATA (GENERAL)
SEE BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER PROCESSING OF LABORATORY DATA (GENERAL)

COMPUTER PROGRAMMING*

** P01HL-07293-17 0047 Non-invasive cardiovascular measurements - Cardiac scanner system software
** P01HL-08805-15 0043 Regulation of ventilation and pulmonary circulation - Computer core facility
P01HL-08899-14 0089 Tolerance to respiratory gases in health and disease - Decompression by applications of optimal control theory
P50HL-14236-05 0010 Prevention of premature arteriosclerosis - Computer programs
P60HL-16008-06 0012 Wayne State University comprehensive sickle cell center - Central data management--Computer system
R01HL-16601-05 Structure and function of blood proteins (human, cattle)
R01HL-17091-05 Anesthetics and microvascular response to hemorrhage (rats)
** P50HL-17646-04 0002 Study of ischemic heart disease - Core data management
P50HL-17648-04 0032 Study of ischemic heart disease - Data management--Statistics and data files
P50HL-17651-04 0033 Ischemic heart disease specialized center of research - Core facilities--Computer sciences
P50HL-17651-04 0047 Ischemic heart disease specialized center of research - Clinical core--Automated arrhythmia monitoring system
P50HL-17665-04 0030 Study of ischemic heart disease - Data management
P50HL-17667-04 0041 Study of ischemic heart disease - Biophysical sciences core--Data collection and retrieval
P50HL-17667-04 0042 Study of ischemic heart disease - Core--Central instrumentation and software
P50HL-17670-04 0001 Study of ischemic heart disease - Data management
P50HL-17670-04 0018 Study of ischemic heart disease - Core electrocardiogram laboratory (human)
P50HL-17682-04 0009 Study of ischemic heart disease - Computer core unit
R01HL-18808-04 0003 Prediction and prevention of sudden cardiac death - Technical support (computer)
R01HL-18968-03 Computer technology for transaxial tomography
P50HL-19170-02 0010 Harvard pulmonary SCOR--Chronic diseases of the airways - Computer Core
P50HL-19362-02 0017 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Data management, statistical analysis
** R01HL-21052-01 Evaluation of a digitalis therapy advisor
R01HL-21221-02 Clinical antiarrhythmic and pharmacodynamic studies
R01HL-22274-01 Quantitating in series effects in cardiac arrhythmias (dogs)
R01HL-22417-01 Microprocessors in medical applications (dogs)
N01HV-72927-00 Systems for non-invasive detection of atherosclerotic lesions (human)
N01HV-72928-04 Develop high resolution ultrasonic imaging techniques

COMPUTER SIMULATION
SEE ALSO MODELS, MATHEMATICAL

R01HL-01486-23 Quantitative study of T wave mechanisms (human, rabbits, dogs, chickens)
P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
P01HL-07293-17 0042 Non-invasive cardiovascular measurements - Ventricular imaging software (human)
P01HL-07293-17 0047 Non-invasive cardiovascular measurements - Cardiac scanner system software
R01HL-07723-15 Reflex control of vascular capacitance in shock
P01HL-08899-14 0041 Tolerance to respiratory gases in health and disease - Blood gas transport and brain circulatory control (human)
P01HL-09011-15 0017 A research and resource program in blood - Operations research laboratory
R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
R01HL-10036-13 Biology of red cell antigen-antibody reaction (human)
R01HL-10330-11 Physiological mechanics of the heart and arteries (dogs, rabbits, horses)
R01HL-10417-12 Multiple systems in electrocardiography (human)
** R01HL-11289-12 Analysis of stress in pulsatile dynamics
P01HL-11307-12 0002 Biophysical studies in pediatric cardiology - Cardiac extracellular electrophysiology (human, dog, chimpanzee)
P01HL-11310-12 0058 Mechanisms of cardiovascular disease - Dynamic response to vasodilating agents postoperatively (human)
** P01HL-11310-12 0060 Mechanisms of cardiovascular disease - Effect of left atrium on the circulation--Simulation
** P01HL-11310-12 0061 Mechanisms of cardiovascular disease - Computer simulation of transposition of great arteries in infants
P01HL-11351-12 0003 Cellular and molecular mechanisms of myocardial function - Mechanical and electrical properties of cardiac muscle (rabbits)
P01HL-11414-11 0034 Thrombosis and atherosclerosis program - Servo simulation--Experimental myocardial infarction (dogs)
P01HL-11678-11 0009 Cardiovascular dynamics and their control - Control of respiration (cat, human)
** P01HL-11678-11 0017 Cardiovascular dynamics and their control - Overall control of circulation--Mathematical analyses
P01HL-11678-11 0036 Cardiovascular dynamics and their control - Pulmonary capillary dynamics and adema (dogs)
P01HL-11678-11 0051 Cardiovascular dynamics and their control - Transient glomerular filtration dynamics (dogs)
** P01HL-11678-11 0058 Cardiovascular dynamics and their control - Overall control of the circulation--Computer analysis
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
R01HL-11919-08 Pulmonary circulation in surgical heart disease (human, dogs)
R01HL-12083-11 Flow field in aorta and its major branches (dogs, phantom models)
** P01HL-12157-11 0054 Functions and mechanisms of cell membrane ion transport - Simulation of electrogenic ion transport in cardiac muscle
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
** P01HL-12373-10 0014 Cardiopulmonary physiology and pathophysiology - Analog digital computation and simulation facility
** R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
** R01HL-12611-10 Basic and clinical studies of the ST-T deflection (human, dogs)
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
P01HL-12738-10 0044 Physiologic pharmacology and its clinical applications - Cardioactive drugs and electrophysiological properties of cardiac cells (sheep)
R01HL-12820-09 In vitro regulation of prothrombin activation
** P01HL-13480-09 0042 Cardiac electrophysiology - Computer modeling of arrhythmias
** P01HL-13737-07 0009 Assisted circulation - Analytical models
** P01HL-13737-07 0036 Assisted circulation - Assessment of infarct size from hemodynamic measurements
R01HL-13917-20 Secretion and effects of adrenal hormones (human, rabbits, sheep)
P50HL-14147-08 0003 Specialized center of research in thrombosis - Surface thrombogenicity and phospholipid vesicle physical properties
** P50HL-14147-08 0013 Specialized center of research in thrombosis - Mathematical models of blood coagulation kinetics
P50HL-14236-05 0001 Prevention of premature arteriosclerosis - Metabolism and transport of cholesterol and vitamin A (human, rats)
R01HL-14306-07 Quantification of arterial pressure control (dogs)
P01HL-14388-07 0214 Regulation of the circulation in pathological states - Deformation pattern and stress analysis of the left ventricle

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-14388-07 0215 Regulation of the circulation in pathological states - Left ventricle model in pathophysiologic states
P01HL-14388-07 0217 Regulation of the circulation in pathological states - Fluid mechanics of aortic flow (dogs, human)
** R01HL-14529-07 Systems analysis of baroreflex (dogs)
P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
R01HL-14614-07 Voltage control of contraction in heart (sheep)
R01HL-14645-07 Blood flow measurement by ultrasonic catheter tip methods (human, dogs)
R01HL-14651-05 Mechanical behavior of left ventricle (dogs, rats)
R01HL-14688-05 Myocardial assessment by inverse electrocardiography (monkey)
P60HL-15157-07 0011 Comprehensive center for sickle cell disease - Development of specific anti-sickling compound (human)
P60HL-15158-07 0014 Comprehensive sickle cell center - Mechanism of sickling in human and deer hemoglobins
P60HL-15168-07 0009 Comprehensive sickle cell disease center - Spin-label study of sickling (human)
R01HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
** R01HL-15622-05 Computer simulation in cardiology (rats, dogs)
R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
P01HL-16117-05 0002 Ion movements and membranes in cardiovascular control - Fluorescence and excitation-contraction coupling in heart (frogs)
R01HL-16135-05 Mechanisms of cardiac autorhythmicity (dogs, bats)
R01HL-16461-05 Late results of valve replacement--Computer analysis (human)
R01HL-16580-04 Mathematical models for studying sickle-cell disease
R01HL-16606-11 Contraction in heart and other striated muscles (frogs)
P01HL-16683-04 0001 Function and growth of cardiac and skeletal muscle - Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)
R01HL-16901-05 Multipolar linkage between heart geometry and surface (human, dogs)
P01HL-16910-05 0001 Regulation of the peripheral circulation - Quantitative studies of microcirculatory control (bats)
P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Dynamics of ischemic heart disease (human, dog)
P60HL-17292-04 0008 Vermont Lung Center - Respiratory physiology--Teaching, learning and auditing problem-solving skills
R01HL-17452-04 Depolarization induced cardiac automaticity (human, animals)
** R01HL-17517-03 Arterial wall oxygen transport in atherosclerosis (rabbits, dogs)
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
P50HL-17651-04 0039 Ischemic heart disease specialized center of research - Measurement and prediction of infarct size (human, dog)
P50HL-17667-04 0041 Study of ischemic heart disease - Biophysical sciences core--Data collection and retrieval
P50HL-17682-04 0007 Study of ischemic heart disease - Mechanisms of hypoxemia in myocardial infarction (human)
R01HL-17711-05 Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs)
P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
R01HL-17808-03 Effect of altered oxygen affinity on oxygen transport (human, rats)
R01HL-17859-04 Computational methods in cardiac fluid dynamics
R01HL-17998-04 Regulatory mechanisms in blood circulation (dogs)
R01HL-18080-03 Extrinsic control of intestinal microcirculation (dogs)
R01HL-18156-02 Hemodynamics in curved arteries
P01HL-18208-04 0002 Center for the study of blood cell rheology - Holography of RBC shape (human)
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
** R01HL-18338-04 Computer feedback study of cardiac muscle mechanics (rats)
R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
R01HL-18426-04 Regulation of renal hemodynamics (dogs)
P01HL-18576-03 0002 Thrombosis research program project - Molecular basis of fibrin formation (human, cattle, lamprey)
R01HL-18968-03 Computer technology for transaxial tomography
R01HL-19139-03 Dispersion of diffusible indicators in the body (human, cats, dogs)
R01HL-19647-03 Therapeutic aerosols
P01HL-19737-02 0010 Cellular and molecular aspects of respiratory physiology - Effects of pulsatile flow and volume on capillary exchanges (dogs, rats)
R01HL-19768-02 Recording and analysis of low levels cardiac signals (human, dogs)
** R01HL-19824-02 Mass transfer in the microcirculation
R01HL-20219-02 Cryopreservation of the isolated heart (rats)
R01HL-20883-02 Fiber geometry in hypertrophy and cardiomyopathy (human)
R01HL-20898-02 Ultrasonic evaluation in direct arterial surgery (models, cattle, human)
** P01HL-21016-02 0001 Sickle cell anemia and other hemoglobinopathies - Supramolecular models of Hb S--Mutational and EM approach
R01HL-21052-01 Evaluation of a digitalis therapy advisor
R01HL-21188-02 Pulsatory water flux and endothelial cell desquamation
** R01HL-21283-02 Simulation studies of the ECG in acute ischemia (and human)
R01HL-21319-02 Interpersonal stress and coronary-prone behavior (human)
R01HL-21425-02 Servo-simulated compliance changes--A reversible MI (dogs)
R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
R01HL-21518-01 Improvement in regional ventilation-perfusion resolution (human)
R23HL-21559-01 Oxygen supply and blood flow through aortic vasa vasorum (dogs)
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
** R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
R01HL-22136-02 Histamine and cardiac adenyl cyclase
R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)
R01HL-22562-02 Mechanism of cardiac action potential propagation (tunicates)
R01HL-22844-01 Phrenic nerve pacing--Noninvasive diaphragm analysis (human, dogs)
R23HL-22932-01 Effect of carbon dioxide on local gas exchange (dogs)
N01HV-72927-00 Systems for non-invasive detection of atherosclerotic lesions (human)
N01HV-72928-04 Develop high resolution ultrasonic imaging techniques

COMPUTERIZED ACTASCAN
SEE RADIOGRAPHY, SCANNING, CAT*

COMPUTERIZED AXIAL TOMOGRAPHY
SEE RADIOGRAPHY, SCANNING, CAT*

COMPUTERIZED DATA BANKS
SEE INFORMATION SYSTEMS (INCL BANKS AND CENTERS)

COMPUTERIZED HEALTH RECORDS
SEE HEALTH RECORDS (SYSTEMS) AUTOMATED

COMPUTERIZED INFORMATION SYSTEMS
SEE INFORMATION SYSTEMS (INCL BANKS AND CENTERS)

COMPUTERIZED MEDICAL RECORDS
SEE HEALTH RECORDS (SYSTEMS) AUTOMATED

COMPUTERIZED TRANSAXIAL TOMOGRAPHY
SEE RADIOGRAPHY, SCANNING, CAT*

COMT
SEE TRANSMETHYLASES, CATECHOL O-METHYL TRANSFERASE

CONALBUMIN
SEE ALBUMINS, CONALBUMIN

CONCANAVALIN A
SEE PLANTS PROTEINS, LECTINS, CONCANAVALIN A

CONDENSATION REACTIONS (CHEMISTRY)
SEE MOLECULAR CONDENSATIONS

CONDITIONING
SEE PSYCHOLOGY, CONDITIONING

CONDITIONING (AUTOGENIC)(BIOFEEDBACK)
SEE PSYCHOLOGY, CONDITIONING, AUTOGENIC AND INTERNAL CONTROL

CONDITIONING THERAPY (BEHAVIOR)
SEE PSYCHOTHERAPY, BEHAVIOR MODIFICATION

CONDUCTANCE
SEE ELECTRICAL CONDUCTION

CONDUCTION ANESTHESIA
SEE SENSORY DEPRESSION, ANESTHESIA CONDUCTION

CONDUCTION SYSTEM, HEART
SEE HEART, CONDUCTION SYSTEM

CONFERENCES
SEE INFORMATION DISSEMINATION, MEETINGS CONFERENCES SYMPOSIA

CONFORMATIONS (CHEMISTRY)
SEE CHEMICAL STRUCTURE, STEREOCHEMISTRY, CONFORMATIONS

CONFORMITY SOCIAL
SEE PSYCHOLOGY SOCIAL, SOCIAL CONFORMITY

CONGENITAL ABNORMALITIES
SEE ALSO BLOOD AND RE DISORDERS, ANEMIA APLASTIC CONGENITAL
SEE ALSO BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC CONGENITAL (GENERAL)
SEE ALSO GENETIC DISORDERS (SEE ALSO APPROPRIATE CONGENITAL ABNORMALITIES)
SEE ALSO METABOLIC DISORDERS INBORN
SEE ALSO PREGNANCY DISORDERS, EMBRYO-FETAL DISORDERS (GENERAL)
SEE ALSO REPRODUCTIVE AND SEX DEVELOPMENT DISORDERS
** P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
R01HL-17808-03 Effect of altered oxygen affinity on oxygen transport (human, rats)

CONGENITAL ABNORMALITIES, BRAIN (GENERAL)
SEE ALSO CONGENITAL ABNORMALITIES, NEUROLOGICAL, DYSAUTONOMIA FAMILIAL
SEE ALSO MENTAL RETARDATION
R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)

CONGENITAL ABNORMALITIES, CARDIOVASCULAR DEFECTS
SEE ALSO CONGENITAL ABNORMALITIES, CARDIOVASCULAR SHUNTS ABNORMAL
SEE ALSO CONGENITAL ABNORMALITIES, HEART DEFECTS
SEE ALSO CONGENITAL ABNORMALITIES, HEART SEPTAL DEFECTS
SEE ALSO METABOLIC DISORDERS INBORN, ANGIONEUROTIC EDEMA (HEREDITARY)
P01HL-06285-18 0136 Cardiovascular-respiratory physiology and biochemistry - Fetal microcirculation in utero (rabbits, lambs)
R01HL-19430-03 Congenital heart malformations and situs inversus (mice)
R01HL-20124-02 Coronary risk factors (human)
R01HL-20132-03 Histogenesis and biochemistry of embryonic lung (birds)
R01HL-21088-02 Genetic patterns in deaths from MI and stroke in Utah
R01HL-21971-01 Atherosclerotic disease and risk factors in twins (human)

CONGENITAL ABNORMALITIES, CARDIOVASCULAR SHUNTS ABNORMAL
SEE ALSO CONGENITAL ABNORMALITIES, HEART SEPTAL DEFECTS
P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
R01HL-11919-08 Pulmonary circulation in surgical heart disease (human, dogs)

CONGENITAL ABNORMALITIES, CARDIOVASCULAR SHUNTS ABNORMAL, PATENT DUCTUS
** P01HL-06285-18 0126 Cardiovascular-respiratory physiology and biochemistry - Ventricular output, foramen ovale and ductus arteriosus flows (lambs)
** P01HL-06285-18 0130 Cardiovascular-respiratory physiology and biochemistry - Ductus arteriosus--Morphological development (human, lambs)
R01HL-12307-08 Non-surgical treatment of congenital heart disease (human, dogs)
** P50HL-14214-07 0026 Newborn lung center for hyaline membrane disease - Hemodynamic studies of HMD--Prostaglandins production and blockers (lambs)
** P50HL-14214-07 0030 Newborn lung center for hyaline membrane disease - Effects of ductal patency--Impedance cardiography and echocardiography (human)
R01HL-16656-06 Left ventricular function in exercise (dogs)
** R01HL-17581-03 Patent ductus arteriosus and pulmonary hypertension (dogs)
R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
** R01HL-22784-01 Ductus arteriosus closure--An arterial lesion model (rabbits)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

CONGENITAL ABNORMALITIES, CARDIOVASCULAR SHUNTS ABNORMAL, VESSELS TRANSPOSITION

R01HL-07605-16 Congenital heart disease research program (human, dogs)
** P01HL-11310-12 0061 Mechanisms of cardiovascular disease - Computer simulation of transposition of great arteries in infants
** P01HL-11310-12 0064 Mechanisms of cardiovascular disease - Extracardiac anatomical correction of transposition of great arteries (puppies)
P01HL-12738-10 0127 Physiologic pharmacology and its clinical applications - Cardiac electrical activity (human, animals)
R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
R01HL-17578-04 Exercise performance in children with heart disease
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)

CONGENITAL ABNORMALITIES, HEART DEFECTS

SEE ALSO CONGENITAL ABNORMALITIES, CARDIOVASCULAR SHUNTS ABNORMAL, VESSELS TRANSPOSITION
SEE ALSO CONGENITAL ABNORMALITIES, HEART SEPTAL DEFECTS
** R01HL-05694-20 Functional pathology of cardiovascular disease (human)
** P01HL-06285-18 0127 Cardiovascular-respiratory physiology and biochemistry - Experimental congenital cardiac lesions in fetal lambs
P01HL-06285-18 0129 Cardiovascular-respiratory physiology and biochemistry - Pulmonary microcirculation in the fetus and neonate (lambs)
** P01HL-06285-18 0130 Cardiovascular-respiratory physiology and biochemistry - Ductus arteriosus--Morphological development (human, lambs)
** P01HL-06285-18 0131 Cardiovascular-respiratory physiology and biochemistry - Fetal heart development and ventricular outflow obstruction (lambs)
P01HL-06285-18 0136 Cardiovascular-respiratory physiology and biochemistry - Fetal microcirculation in utero (rabbits, lambs)
P01HL-06296-18 0003 Cardiovascular and pulmonary adaptation to stress - Human exercise studies (human, dogs)
M P01HL-07293-17 Non-invasive cardiovascular measurements
P01HL-07293-17 0043 Non-invasive cardiovascular measurements - ECHO-Doppler instrumentation for cardiac measurements (human)
P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
** R01HL-07605-16 Congenital heart disease research program (human, dogs)
** R01HL-09474-11 Natural history-congenital heart defects--Joint study (human)
** R01HL-09476-10 Natural history, congenital heart defects--Joint study
M P01HL-10436-13 A multidisciplinary study of congenital heart disease
** P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
** P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
P01HL-10436-13 0006 A multidisciplinary study of congenital heart disease - Ventricular blood pumps and valves (human, cattle)
** P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
** P01HL-10436-13 0009 A multidisciplinary study of congenital heart disease - Pathophysiology and morphogenesis of congenital heart disease (human)
** P01HL-10436-13 0016 A multidisciplinary study of congenital heart disease - Genetic studies of congenital heart disease (human)
** R01HL-10718-10 Natural history of congenital heart defects--Joint study (human)
M P01HL-11310-12 Mechanisms of cardiovascular disease
P01HL-11310-12 0069 Mechanisms of cardiovascular disease - Factors affecting mortality and morbidity after heart surgery (human)
P01HL-11310-12 0070 Mechanisms of cardiovascular disease - Factors affecting long-term mortality and morbidity after heart surgery (human)
** P01HL-11310-12 0076 Mechanisms of cardiovascular disease - Tratment of depressed cardiac output following heart surgery (children, puppies)
** P01HL-11310-12 0077 Mechanisms of cardiovascular disease - Abnormalities of rhythm and conduction following heart surgery (human)
** P01HL-11310-12 0079 Mechanisms of cardiovascular disease - Electrophysiological studies of complete heart block (human)
** P01HL-11310-12 0082 Mechanisms of cardiovascular disease - Myocardial function in adult congenital heart disease (human)
** P01HL-11310-12 0083 Mechanisms of cardiovascular disease - Ventricular volume and hemodynamics in adult congenital heart disease
** P01HL-11310-12 9001 Mechanisms of cardiovascular disease - Core support-hospital beds
** R01HL-12307-08 Non-surgical treatment of congenital heart disease (human, dogs)
** P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
** R01HL-12542-07 Natural history, congenital heart defects--Joint study (human)
P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
P01HL-14388-07 0214 Regulation of the circulation in pathological states - Deformation pattern and stress analysis of the left ventricle
P01HL-14388-07 0215 Regulation of the circulation in pathological states - Left ventricle model in pathophysiologic states
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
R01HL-16260-04 Development of clinical cine ultrasound cardiography
** R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
R01HL-17578-04 Exercise performance in children with heart disease
R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
** R01HL-17931-04 Normalized body surface potential maps (children)
R01HL-17993-04 0009 Ventricular dynamics from surgically inserted markers - Cardiovascular visualization in surgery of growing heart (dogs)
** R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)
R01HL-18328-03 Hemoglobin function and tissue oxygenation (human, dogs)
** R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
** R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
** R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
** R01HL-19225-02 0004 Types and mechanims of pulmonary hypertension - Structural changes in human pulmonary circulation (human, animals)
** R01HL-19430-03 Congenital heart malformations and situs inversus (mice)
R01HL-20037-02 Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle)
** R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
** R01HL-20677-02 Radionuclide studies in congenital heart disease
R01HL-20803-02 Intra-aortic balloon pumping (dogs, lambs, cats)
** R01HL-21985-01 Videoroentgenography in congenital heart disease
** R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
** R01HL-22550-02 Genetic cardiomyopathies in salamanders and hamsters
** R01HL-22963-01 Symbolic logic analysis of congenital heart disease (human)
R01HL-23232-01 Effect of hypoxia on PVSM and its precursor cells

CONGENITAL ABNORMALITIES, HEART DEFECTS, ASYMMETRIC SEPTAL HYPERTROPHY

R01HL-16901-05 Multipolar linkage between heart geometry and surface (human, dogs)
** R01HL-20610-02 Nerve growth factor and obstructive cardiomyopathy (dogs)

CONGENITAL ABNORMALITIES, HEART DEFECTS, TETRALOGY OF FALLOT

P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
P01HL-10436-13 0006 A multidisciplinary study of congenital heart disease - Ventricular blood pumps and valves (human, cattle)
R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
R01HL-17578-04 Exercise performance in children with heart disease

CONGENITAL ABNORMALITIES, HEART DEFECTS, WOLFF-PARKINSON-WHITE SYNDROME

** P01HL-06308-18 0044 Mechanisms and therapy of circulatory disease - Echocardiography to determine site of ectopic impulse formation (human, dogs)
R01HL-07047-16 Comparative study of cardiac conduction system (human, birds, mammals)
R01HL-07605-16 Congenital heart disease research program (human, dogs)
P01HL-11307-12 0002 Biophysical studies in pediatric cardiology - Cardiac extracellular electrophysiology (human, dog, chimpanzee)
R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
** R01HL-17931-04 Normalized body surface potential maps (children)
** R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)

CONGENITAL ABNORMALITIES, HEART SEPTAL DEFECTS

SEE ALSO CONGENITAL ABNORMALITIES, HEART DEFECTS, ASYMMETRIC SEPTAL HYPERTROPHY
SEE ALSO CONGENITAL ABNORMALITIES, HEART DEFECTS, TETRALOGY OF FALLOT
R01HL-05694-20 Functional pathology of cardiovascular disease (human)
P01HL-06285-18 0126 Cardiovascular-respiratory physiology and biochemistry - Ventricular output, foramen ovale and ductus arteriosus flows (lambs)
P01HL-07293-17 0043 Non-invasive cardiovascular measurements - ECHO-Doppler instrumentation for cardiac measurements (human)
P01HL-07293-17 0051 Non-invasive cardiovascular measurements - Physiologic evaluation of duplex scanner (dogs)
P01HL-07293-17 0052 Non-invasive cardiovascular measurements - Clinical evaluation of the duplex scanner (human)
P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
R01HL-07605-16 Congenital heart disease research program (human, dogs)
** R01HL-09474-11 Natural history-congenital heart defects--Joint study (human)
** R01HL-09476-10 Natural history, congenital heart defects--Joint study
R01HL-09711-13 Instantaneous blood flow in ascending aorta (human, dogs)
P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
** R01HL-10718-10 Natural history of congenital heart defects--Joint study (human)
R01HL-12307-08 Non-surgical treatment of congenital heart disease (human, dogs)
** R01HL-12542-07 Natural history, congenital heart defects--Joint study (human)
** P01HL-12738-10 0131 Physiologic pharmacology and its clinical applications - Evaluation of intracardiac shunts by contrast echocardiography (dogs)
R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
** R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
** R01HL-19136-03 Mucopolysaccharide metabolism in cardiac anomalies (rats)
R01HL-20132-03 Histogenesis and biochemistry of embryonic lung (birds)
** R23HL-21203-02 Effect of vasoactive agents on left-to-right shunts (lambs)
** R01HL-22963-01 Symbolic logic analysis of congenital heart disease (human)

CONGENITAL ABNORMALITIES, NEUROLOGICAL, DYSAUTONOMIA FAMILIAL

** R01HL-17711-05 Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs)

CONGENITAL ABNORMALITIES, RESPIRATORY (GENERAL)

P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
R01HL-15526-05 Respiratory mechanics in children
R01HL-20132-03 Histogenesis and biochemistry of embryonic lung (birds)

CONGENITAL ABNORMALITIES, RESPIRATORY DISTRESS SYNDROME

SEE ALSO RESPIRATORY GAS LEVELS, HYPOXIA NEONATORUM
P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
P01HL-06285-18 0210 Cardiovascular-respiratory physiology and biochemistry - Physicochemical and enzymatic studies of lung surfactant (Halobacterium)
R01HL-10834-09 Fetal and neonatal pulmonary circulation (goats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-14136-07 0017 Pulmonary SCOR–Airways obstructive diseases - Pediatric airways obstructive disease (human)
P50HL-14187-07 0012 Pulmonary SCOR–Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
M P50HL-14214-07 Newborn lung center for hyaline membrane disease
** P50HL-14214-07 0012 Newborn lung center for hyaline membrane disease - Pulmonary status of children who had HMO as infants
** P50HL-14214-07 0013 Newborn lung center for hyaline membrane disease - Oevelopmental outcome of children who had HMO as infants
P50HL-14214-07 0015 Newborn lung center for hyaline membrane disease - Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal)
** P50HL-14214-07 0020 Newborn lung center for hyaline membrane disease - Epidermal growth factor effect–Lung differentiation, maturation (human, rabbit)
** P50HL-14214-07 0021 Newborn lung center for hyaline membrane disease - Oevelopment of surfactant system--Surfactant production and release (rat, rabbit)
** P50HL-14214-07 0022 Newborn lung center for hyaline membrane disease - Functional integrity of surfactant system–Hyaline membrane disease (lamb, rat)
P50HL-14214-07 0023 Newborn lung center for hyaline membrane disease - Regulation of fetal lung maturation--Vitamin A (rat, rabbit, sheep, human)
P50HL-14214-07 0024 Newborn lung center for hyaline membrane disease - Synthesis and receptors for ACTH in fetal lung (human)
** P50HL-14214-07 0025 Newborn lung center for hyaline membrane disease - Pulmonary vascular permeability and lung water–Hyaline membrane disease (sheep)
** P50HL-14214-07 0026 Newborn lung center for hyaline membrane disease - Hemodynamic studies of HMO–Prostaglandins production and blockers (lambs)
** P50HL-14214-07 0027 Newborn lung center for hyaline membrane disease - Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep)
** P50HL-14214-07 0028 Newborn lung center for hyaline membrane disease - Relationship of trace metals to respiratory failure (dog, sheep, human)
** P50HL-14214-07 0029 Newborn lung center for hyaline membrane disease - The diving reflex--Perinatal asphyxia, pulmonary ischemia and HMO (sheep)
** P50HL-14214-07 0030 Newborn lung center for hyaline membrane disease - Effects of ductal patency–Impedance cardiography and echocardiography (human)
** P50HL-14214-07 0031 Newborn lung center for hyaline membrane disease - Essential fatty acid deficiency and HMO (human)
** P50HL-14214-07 0032 Newborn lung center for hyaline membrane disease - Evoked electroencephalographic potential in infants with HMO (human)
** P50HL-14214-07 0033 Newborn lung center for hyaline membrane disease - Statistical modeling, predictive classification in clinical management of HMO
** P50HL-14214-07 0034 Newborn lung center for hyaline membrane disease - Core--Newborn intensive care unit
** P50HL-14214-07 0035 Newborn lung center for hyaline membrane disease - Core--Animal care facility
** P50HL-14214-07 0036 Newborn lung center for hyaline membrane disease - Core--Biomedical engineering
** P50HL-14214-07 0037 Newborn lung center for hyaline membrane disease - Core–Histopathology laboratories
M P50HL-14218-07 Pulmonary SCOR–Newborn lung center
** P50HL-14218-07 0004 Pulmonary SCOR–Newborn lung center - Metabolism of infants with respiratory distress syndrome (human)
** P50HL-14218-07 0005 Pulmonary SCOR–Newborn lung center - Prevention of infection in infants with respiratory distress (human)
** P50HL-14218-07 0006 Pulmonary SCOR–Newborn lung center - Biochemical characteristics of the lung in ROS (human, sheep)
P50HL-14218-07 0011 Pulmonary SCOR–Newborn lung center - Administrative and computer core
** P50HL-14218-07 0012 Pulmonary SCOR–Newborn lung center - Longitudinal study of ROS–On-line fetal and neonatal monitoring (human)
P50HL-14218-07 0013 Pulmonary SCOR–Newborn lung center - Longitudinal study of ROS--Monitoring fetal PO2 and PCO2 during labor (human)
P50HL-14218-07 0014 Pulmonary SCOR–Newborn lung center - Longitudinal study of ROS--Monitoring fetal breathing movements (human)
** P50HL-14218-07 0015 Pulmonary SCOR–Newborn lung center - Long term follow-up of infants surviving ROS--Neurological outcome (human)
** P50HL-14218-07 0017 Pulmonary SCOR–Newborn lung center - Transvascular fluid exchange, vasoactive mediators in ROS (sheep, cat)
R01HL-14663-07 Pulmonary oxygen toxicity in newborn lung (human, mice)
R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
** R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
** P50HL-15061-07 0013 Response of lung to injury - Exchange transfusion in infants with respiratory distress syndrome (human, sheep)
R01HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
** R01HL-15316-07 Lung surfactant system--Control mechanisms (rats)
R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
R01HL-15526-05 Respiratory mechanics in children
M P01HL-16137-05 Alveolar biology
** P01HL-16137-05 0013 Alveolar biology - Oevelopment and pathology of surfactant–Formation of alveolar (rabbits, sheep)
R01HL-17629-03 Oevelopmental aspects of cardiovascular function (human, cats, rabbits)
** R01HL-17800-04 Pulmonary reflexes–Central pathways (cats, dogs, rabbits)
R01HL-18507-03 Clinical studies of Fletcher factor (human)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
M P50HL-19185-02 Pulmonary SCOR--Neonatal respiratory distress syndromes
P50HL-19185-02 0002 Pulmonary SCOR--Neonatal respiratory distress syndromes - Biochemistry, ultrastructure--Pulmonary surface active material (human, animal)
P50HL-19185-02 0003 Pulmonary SCOR--Neonatal respiratory distress syndromes - Factors affecting formation and release of pulmonary surfactant in fetal lambs
** P50HL-19185-02 0004 Pulmonary SCOR--Neonatal respiratory distress syndromes - Fluid and protein transport in fetal and newborn lung (sheep, rabbits)
** P50HL-19185-02 0005 Pulmonary SCOR–Neonatal respiratory distress syndromes - Role and mechanism of glucocorticoids in fetal lung maturation (human, rabbit)
** P50HL-19185-02 0006 Pulmonary SCOR–Neonatal respiratory distress syndromes - Evaluation of risk factors in neonatal respiratory distress (human, sheep)
** P50HL-19185-02 0007 Pulmonary SCOR–Neonatal respiratory distress syndromes - Sodium bicarbonate and albumin in resuscitation of preterm infants (human)
** P50HL-19185-02 0009 Pulmonary SCOR–Neonatal respiratory distress syndromes - Nasal continuous positive airway pressure in hyaline membrane disease (human)
** P50HL-19185-02 0011 Pulmonary SCOR--Neonatal respiratory distress syndromes - Complications and sequelae of neonatal respiratory distress (human)
P50HL-19185-02 0012 Pulmonary SCOR--Neonatal respiratory distress syndromes - Core microscopy lab
M P50HL-19187-02 Pediatric pulmonary SCOR--Hyaline membrane disease
** P50HL-19187-02 0001 Pediatric pulmonary SCOR–Hyaline membrane disease - Hyaline membrane disease--Changes in lung mechanics and gas exchange (monkeys)
** P50HL-19187-02 0002 Pediatric pulmonary SCOR–Hyaline membrane disease - Hyaline membrane disease--Alterations in surface active material (monkeys)
** P50HL-19187-02 0003 Pediatric pulmonary SCOR–Hyaline membrane disease - Hyaline membrane disease--Ultrastructure studies (monkey)
** P50HL-19187-02 0004 Pediatric pulmonary SCOR–Hyaline membrane disease - Hyaline membrane disease–Surface active material, lamellar bodies (mice, rats)
** P50HL-19187-02 0007 Pediatric pulmonary SCOR--Hyaline membrane disease - Follow-up study–Infants with hyaline membrane disease (human)
P50HL-19187-02 0009 Pediatric pulmonary SCOR–Hyaline membrane disease - Non-invasive measurement and monitoring of arterial oxygen tension (dogs, sheep)
** P50HL-19187-02 0010 Pediatric pulmonary SCOR–Hyaline membrane disease - Treatment, outcome of HMO–Continuous positive airway pressure (human, monkey)
** P50HL-19187-02 0011 Pediatric pulmonary SCOR–Hyaline membrane disease - Effects of hypoxia and hypercapnia on developing nervous system (monkey, human)
** P50HL-19187-02 0012 Pediatric pulmonary SCOR–Hyaline membrane disease - Resource requirements, economic consequence of HMO and recurrent apnea
** P50HL-19187-02 0013 Pediatric pulmonary SCOR–Hyaline membrane disease - Research resources core
M P50HL-19190-02 Pulmonary SCOR--Pathophysiology, management of IROS
** P50HL-19190-02 0001 Pulmonary SCOR–Pathophysiology, management of IROS - Core--Clinical research center (infants)
** P50HL-19190-02 0002 Pulmonary SCOR--Pathophysiology, management of IROS - Core--Oemonstration and dissemination
P50HL-19190-02 0003 Pulmonary SCOR–Pathophysiology, management of IROS - Type II cells–Regulation and differentiation (rat)
P50HL-19190-02 0004 Pulmonary SCOR--Pathophysiology, management of IROS - Type II cells--Control of protein turnover (rabbit)
P50HL-19190-02 0005 Pulmonary SCOR--Pathophysiology, management of IROS - Glycoproteins in mucous secretions (human, cattle)
P50HL-19190-02 0006 Pulmonary SCOR–Pathophysiology, management of IROS - Asphyxia–Respiratory control (dogs)
P50HL-19190-02 0007 Pulmonary SCOR–Pathophysiology, management of IROS - Asphyxia--Cerebral metabolism (dog, rat)
** P50HL-19190-02 0008 Pulmonary SCOR–Pathophysiology, management of IROS - Hemodynamics and gas exchange--Oeterminants of hypotension (human, infant)
** P50HL-19190-02 0009 Pulmonary SCOR–Pathophysiology, management of IROS - Oeveloping non-invasive neonatal pulmonary monitoring systems (rabbit, human)
R01HL-19225-02 0004 Types and mechanims of pulmonary hypertension - Structural changes in human pulmonary circulation (human, animals)
P01HL-19737-02 0006 Cellular and molecular aspects of respiratory physiology - Tissue oxygenation and mitochondrial respiratory activity (sheep)
R01HL-20354-02 Oirect determination of oxygen tension in the clinical environment (human, dogs)
** R01HL-21176-02 Phospholipid exchange proteins in lung tissue (lambs)
** R01HL-22266-01 Production of proteases by lung cells in culture (human, rodents, rabbits, sheep)
R01HL-22327-01 Transport of arterial blood gases through skin (swine)
R01HL-22636-01 Newborn lung function during mechanical ventilation (human)
** R01HL-22843-01 Pulmonary physiology in liquid ventilation (lambs)
** N01HR-62948-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62949-05 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62950-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62951-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62952-05 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome

CONGENITAL ABNORMALITIES, SKIN (GENERAL)

P50HL-14214-07 0020 Newborn lung center for hyaline membrane disease - Epidermal growth factor effect–Lung differentiation, maturation (human, rabbit)

CONGENITAL ABNORMALITIES, TERATOGENIC AGENTS

SEE ALSO GENETICS, MUTAGENS
** R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)
R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
R01HL-19136-03 Mucopolysaccharide metabolism in cardiac anomalies (rats)

CONGENITAL DISEASES

SEE CONGENITAL ABNORMALITIES

CONGENITAL HEART DISEASE

SEE CONGENITAL ABNORMALITIES, HEART OEFECTS

CONGENITAL IRON OVERLOAD (CEREBRO-HEPATO-RENAL SYNDROME)

SEE METABOLIC OISOROERS INBORN, CEREBRO-HEPATO-RENAL SYNOROME

CONGESTIVE HEART FAILURE

SEE HEART OISOROERS, HEART FAILURE, CONGESTIVE

CONJUNCTIVA

SEE EYE, CONJUNCTIVA

CONNECTIVE TISSUE (GENERAL)

SEE ALSO ALBUMINOIOS, COLLAGEN
SEE ALSO ALBUMINOIOS, ELASTIN
SEE ALSO MUSCLES, SARCOLEMMA
SEE ALSO SKELETAL SYSTEM, BONE
SEE ALSO SKELETAL SYSTEM, CARTILAGE
** R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
P50HL-14164-07 0036 A/S SCOR–Comparative and experimental atherosclerosis - Connective tissue metabolism–Interaction with arterial metabolism (monkeys)
** P50HL-15103-07 0014 A/S SCOR–Early natural history of arteriosclerosis - Biochemistry of atherosclerotic lesions (monkeys, human, cattle)
R01HL-15478-05 Lipid flux and collagen synthesis in atherosclerosis (rabbits)
** P01HL-15832-06 0001 Chemical-structural predispositions to lung injury - Chemical composition of lung connective tissue proteins (human, animals)
** P01HL-15832-06 0002 Chemical-structural predispositions to lung injury - Connective tissue in lung in development and repair of injury (human, rats, mice)
P01HL-15832-06 0005 Chemical-structural predispositions to lung injury - Pulmonary structure and stress-strain relationships (rats)
** P01HL-15832-06 0008 Chemical-structural predispositions to lung injury - Interstitial fibrosis--Connective tissue components in normal and diseased lungs

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-15832-06 0009 Chemical-structural predispositions to lung injury Immunology-Enzyme degradation products of human lung elastin and microfibril
P01HL-15832-06 9001 Chemical-structural predispositions to lung injury - Tissue culture studies of lung cell function Core facility
R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
P01HL-16387-04 0004 The blood vessel and thrombogenesis - Analysis of vascular basement membrane by enzymatic methods (human)
** R01HL-17721-04 Effect of sex hormones on vascular connective tissue (rats)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
** P01HL-18645-03 0003 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
R01HL-19677-03 Venous structure and function (dogs)
P01HL-19717-02 0008 Response of the lung to injury - Experimental models of lung disease
** P01HL-19717-02 0009 Response of the lung to injury - Time-dependent mechanical properties of lung connective tissues (hamsters)
** P01HL-19717-02 0012 Response of the lung to injury - Connective tissue biochemistry and enzyme injury of the lung (hamsters)
P01HL-19717-02 0018 Response of the lung to injury - Lung mechanics and connective tissue composition in human emphysema
** P01HL-19717-02 0023 Response of the lung to injury - Postnatal lung development--Cells, connective tissue and physiology (animals)
R01HL-21626-01 Proteoglycans of animal lung parenchyma (cattle, pigs, rabbits)
R01HL-21644-01 Fibronectin and related glycoproteins (human, rodents)
R01HL-21649-01 Biochemistry of lung proteoglycans (mammals)
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)

CONNECTIVE TISSUE, ADIPOSE

P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
R01HL-12690-09 Systemic and local vascular adjustment in shock (monkeys, cats)
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
R01HL-14990-07 Lipid transport in avian species (chickens)
R01HL-15562-05 Regulation of skeletal muscle blood flow (dogs)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
R01HL-16577-04 Lipoprotein lipase chemistry and function (rats, cattle, human)
R01HL-18705-03 Regulation of plasma triglyceride metabolism (rats)
** P50HL-19362-02 0002 A/S SCOR--Atherosclerosis in nonhuman primates - Infant caloric intake, adipose tissue development and atherosclerosis (baboon)
R01HL-20508-03 Diabetes, hyperglycemia and cardiovascular disease (human)
R01HL-21578-01 Effect of exercise upon the hypertensive adolescent
R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)
P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
P01HL-22633-01 9001 Cellular and molecular biology of lipoprotein metabolism - Tissue culture core
R01HL-23159-01 Regulation of lipogenesis by polyunsaturated fats (rats, chicks)

CONNECTIVE TISSUE, ADIPOSE, FAT CELLS

P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
P50HL-19362-02 0002 A/S SCOR--Atherosclerosis in nonhuman primates - Infant caloric intake, adipose tissue development and atherosclerosis (baboon)

CONNECTIVE TISSUE, ELASTIC TISSUE

** P01HL-11310-12 0101 Mechanisms of cardiovascular disease - Molecular pathogenesis of vascular disease
P01HL-11310-12 0104 Mechanisms of cardiovascular disease - Structure of connective tissue proteoglycans (rabbits)
M P01HL-16118-06 Study of emphysema
R01HL-22446-01 Chemical and functional studies of low copper in lung (pigs)
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis

CONNECTIVE TISSUE, GROUND SUBSTANCE

** R01HL-18625-03 Organization of arterial ground substance (cattle)

CONNECTIVE TISSUE CELLS

SEE ALSO BLOOD AND RE SYSTEM, MACROPHAGES
SEE ALSO BLOOD AND RE SYSTEM, MAST CELLS
SEE ALSO CONNECTIVE TISSUE, ADIPOSE, FAT CELLS
SEE ALSO MUSCLE CELLS
SEE ALSO PIGMENTATION, CHROMATOPHORES
R01HL-18900-03 Intercellular factors in function of cardiac cells
R01HL-21994-01 Structure and development of regenerating capillaries (rabbits, chick embryo)

CONNECTIVE TISSUE CELLS, FIBROBLASTS

P01HL-06285-18 0152 Cardiovascular-respiratory physiology and biochemistry Diabetic microangiopathy by organ and tissue culture (human)
R01HL-10316-13 Structural studies on low density serum lipoproteins (human)
R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
P50HL-14164-07 0037 A/S SCOR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
** P50HL-14212-07 0016 Correlated studies of pulmonary fibrosis - Role of pulmonary alveolar macrophages in fibrosis (human, rabbit)
P50HL-14230-07 0095 A/S SCOR--Lipids, atherosclerosis and thrombosis - Blood platelet adherence to endothelial smooth muscle cells, fibroblast (human)
P50HL-14230-07 9002 A/S SCOR--Lipids, atherosclerosis and thrombosis - Core tissue culture laboratory
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
R01HL-15646-03 Lipid studies in vascular smooth muscle cells (human, monkeys)
R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
** R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
R01HL-17404-05 Immunologic mechanisms in heart disease (mice)
P50HL-17648-04 0026 Study of ischemic heart disease - Control of muscle cell proliferation (organ culture)
R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
P01HL-18577-03 0003 Lipoproteins--Cell surface interactions - Mechanism of lipid exchange in lipoproteins and cell membranes
P01HL-18645-03 0003 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
R01HL-18687-03 Pathophysiology of genetic hypertriglycerinemias (human)
R01HL-18692-03 Glycosaminoglycans and lipoproteins of human plasma
R01HL-18878-03 Familial hypercholesteremia--Studies of fibroblasts (human)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R23HL-19594-01 Tropocollagen and tropoelastin uptake in lung cells (human)
P01HL-19717-02 0007 Response of the lung to injury - Cellular level studies of prostaglandin-like molecules (cattle)
P01HL-19717-02 0024 Response of the lung to injury - Formation of lung alveoli (rats)
R01HL-19731-03 Collagen in interstitial fibrosis of lung (human)
R01HL-20095-03 Role of lymphokines and monocytes in lung fibrosis (human, guinea pigs, rats)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)
M P01HL-20948-02 Molecular basis of cholesterol metabolism
** P01HL-20948-02 0001 Molecular basis of cholesterol metabolism - Biochemical and ultrastructural characterization of LDL in human fibroblasts
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
P01HL-20948-02 0003 Molecular basis of cholesterol metabolism - LDL pathway in vivo (human, rats, guinea pigs)
P01HL-20948-02 0004 Molecular basis of cholesterol metabolism - Genetic analysis of the LDL pathway (human)
P01HL-20948-02 9001 Molecular basis of cholesterol metabolism - Tissue culture core laboratory
R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)
R01HL-21644-01 Fibronectin and related glycoproteins (human, rodents)
R23HL-21805-01 Tissue cell interactions with vascular prostheses (human, rats, mice)
R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
P01HL-22607-01 0001 Pathophysiology of the endothelium Platelet-endothelial interactions in vitro (human, cattle)
R01HL-22623-01 Polyamines cellular mediators of atherogenesis (human)
P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism Sterol metabolism in tissue culture cells

CONNECTIVE TISSUE CELLS (NERVE)

SEE NERVOUS SYSTEM, NEUROGLIA

CONNECTIVE TISSUE DEVELOPMENT

** P50HL-14218-07 0006 Pulmonary SCOR--Newborn lung center Biochemical characteristics of the lung in RDS (human, sheep)
R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
** R01HL-20635-03 Factors in lung development (rat and chick embryo)
R01HL-20764-02 Elastin and calcification in pulmonary and vascular disease (human, mammals)
** R23HL-21225-02 Connective tissue precursor molecules in the lung (rabbits, hamsters)
R01HL-21617-02 Biochemistry of lung proteoglycans (rabbits, cattle)
R01HL-21646-02 Biosynthesis of fractionated proteoglycans of lung (rabbits)

CONNECTIVE TISSUE DEVELOPMENT, FIBROGENESIS

** R01HL-12561-11 Cardiovascular studies on copper deficiency (swine)
** R01HL-14126-17 Effect of function on grafts and implants of collagen (dogs, monkeys)
P50HL-14212-07 0004 Correlated studies of pulmonary fibrosis - Collagen metabolism in lung tissue and lung cells (human, animal)
P50HL-14212-07 0016 Correlated studies of pulmonary fibrosis - Role of pulmonary alveolar macrophages in fibrosis (human, rabbit)
** R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)
** R01HL-22208-02 Elastin structure, fibrogenesis and disease (chickens, rabbits)
R01HL-23542-01 Pulmonary vascular smooth muscle cell dynamics (rat, rabbit)

CONNECTIVE TISSUE DISORDERS (GENERAL)

SEE ALSO LIPOIDAL DISORDERS
SEE ALSO METABOLIC DISORDERS INBORN, EHLERS-DANLOS SYNDROME
SEE ALSO METABOLIC DISORDERS INBORN, MARFAN SYNDROME
R01HL-12561-11 Cardiovascular studies on copper deficiency (swine)
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
P01HL-16118-06 0006 Study of emphysema - Metabolism of elastin (hamsters)
R01HL-19685-03 Pathogenesis of inflammation of the lung (guinea pigs)
** R01HL-20447-03 Connective tissue and diabetic vascular disease (human)

CONNECTIVE TISSUE DISORDERS, COLLAGEN DISEASES

SEE ALSO CEREBROVASCULAR DISORDERS, TEMPORAL ARTERITIS
SEE ALSO CONNECTIVE TISSUE DISORDERS, LUPUS ERYTHEMATOSUS SYSTEMIC
SEE ALSO CONNECTIVE TISSUE DISORDERS, RHEUMATIC DISORDERS
SEE ALSO CONNECTIVE TISSUE DISORDERS, SCLERODERMA
SEE ALSO CONNECTIVE TISSUE DISORDERS, SJOGREN'S SYNDROME
SEE ALSO GASTROINTESTINAL DISORDERS, ENTERITIS, ULCERATIVE COLITIS
** P50HL-15061-07 0004 Response of lung to injury - Biochemical abnormalities in connective tissues (rats)
** R01HL-17551-04 Biosynthesis and metabolism of procollagen (human, monkeys, mice)
** R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
** R01HL-19668-03 Biochemistry of lung connective tissue (rats)
R01HL-19720-03 Evaluation of anti-fibrotic agents in pulmonary fibrosis (rats)
** R01HL-19731-03 Collagen in interstitial fibrosis of lung (human)
R01HL-20095-03 Role of lymphokines and monocytes in lung fibrosis (human, guinea pigs, rats)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-20675-02 Alveolar macrophage function in man
R23HL-21663-01 Regulation of collagen biosynthesis (chick, embryo)
** R01HL-22939-01 Human kinin and fibrinolytic systems and renal disease (human)

CONNECTIVE TISSUE DISORDERS, LUPUS ERYTHEMATOSUS SYSTEMIC
P01HL-06314-17 0062 Immunologic mechanisms in cardiovascular disease - Immunologic renal vascular disease (human, animals)
R01HL-10036-13 Biology of red cell antigen-antibody reaction (human)
** R01HL-10980-11 Ultrastructural renal pathology (human, rats)
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
R01HL-16603-05 Human and experimental renal diseases (animals)

CONNECTIVE TISSUE DISORDERS, RHEUMATIC DISORDERS
SEE ALSO BACTERIAL DISEASES, STREPTDCDCCAL INFECTIONS, RHEUMATIC FEVER
SEE ALSD SKELETAL DISDRDERS, ARTHRITIS, RHEUMATOID
M R01HL-01803-23 Arteriosclerosis, glomerulonephritis, rheumatic fever

CONNECTIVE TISSUE DISORDERS, RHEUMATIC DISORDERS, ANTIRHEUMATIC AGENTS
SEE ALSO CALCIFICATION INHIBITDRS (CALCIUM NEGATIVE BALANCE DRUGS)
SEE ALSD DISEASES, PATHOLOGIC PRDCESSES, INFLAMMATIDN, ANTIINFLAMMATORY AGENTS
R01HL-18679-04 Synthetic protease inhibitors

CONNECTIVE TISSUE DISORDERS, SCLERODERMA
R01HL-100D9-13 Regional lung function in man
R01HL-14148-07 0008 The regional circulations - Renal circulation in hypertensive patients (also dogs)
R01HL-166D3-05 Human and experimental renal diseases (animals)
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)
PD1HL-17813-04 0006 Lung disease and the oxygenation of blood and tissue - Assessment of respiratory muscle contractile force (human, dogs)
RD1HL-19731-03 Collagen in interstitial fibrosis of lung (human)
RD1HL-22547-D1 Behavioral treatment of Raynaud's disease (human)

CONNECTIVE TISSUE DISORDERS, SJOGREN'S SYNDROME
P50HL-14153-07 0016 Johns Hopkins Lung Center--Chronic diseases of airways - Airways defense mechanisms (dogs)

CONNECTIVE TISSUE DISORDERS CHEMOTHERAPY
SEE ALSO CONNECTIVE TISSUE DISDRDERS, RHEUMATIC DISDRDERS, ANTIRHEUMATIC AGENTS
SEE ALSO CONNECTIVE TISSUE PHARMACDLDGY
** R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
** R01HL-19720-03 Evaluation of anti-fibrotic agents in pulmonary fibrosis (rats)

CONNECTIVE TISSUE HYPERPLASIA
SEE ALSO HEART DISORDERS, CDRONARY FIBRDSIS
SEE ALSO METABOLIC DISORDERS INBORN, CYSTIC FIBROSIS
SEE ALSO RESPIRATORY DISDRDERS, PULMONARY FIBROSIS AND GRANULOMAS
** RD1HL-17369-04 Arterial bypass surgery--Structure and metabolism (monkeys)

CONNECTIVE TISSUE PHARMACOLOGY
SEE ALSO CONNECTIVE TISSUE DISDRDERS CHEMOTHERAPY
R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)

CONSCIOUSNESS
SEE PSYCHOLOGY, COGNITIDN, CDNSCIDUSNESS

CONSTITUTIONAL HIRSUTISM
SEE DISEASES, SIGNS-SYMPTOMS, HIRSUTISM

CONSULTATION AND REFERRAL
SEE HEALTH CARE SERVICES, REFERRAL AND CONSULTATIDN

CONSUMER PRODUCTS
SEE ALSO BIDLDGICAL PREPARATIDNS AND STANDARDIZATION
SEE ALSD BIOMATERIALS
SEE ALSO BIOMEDICAL ENGINEERING
SEE ALSO BIOMEDICAL RESOURCES (GENERAL)
SEE ALSO DRUGS
SEE ALSD IMMUNOLOGICAL PREPARATIONS (GENERAL)(INCLUDING CERTIFICATION AND STANDARDIZATIDN)
SEE ALSO PHYSICAL PROPERTIES, SURFACTANTS, DETERGENTS
R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)

CONSUMER PRODUCTS, TOBACCO AND TOBACCO PRODUCTS
SEE ALSD PSYCHOLOGY, HABITS, SMDKING
SEE ALSD PYRIDINES, NICDTINE
R01HL-01803-23 0011 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
** R01HL-01803-23 0021 Arteriosclerosis, glomerulonephritis, rheumatic fever - Induction of IgE antibodies to antigen from tobacco and cigarette smoke (rabbits)
** R01HL-01803-23 0022 Arteriosclerosis, glomerulonephritis, rheumatic fever - Cardiac and pulmonary anaphylaxis induced by tobacco glycoprotein (rabbits)
** P50HL-14212-07 0012 Correlated studies of pulmonary fibrosis - Inorganic particulates in tobacco, smoke and lungs of cigarette smokers (human)
R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)

CONTACT INHIBITION
SEE CELL GROWTH REGULATION, CDNTACT INHIBITION

CONTAMINATION (GENERAL)
SEE ENVIRDNMENTAL HEALTH, CONTAMINATIDN (GENERAL)

CONTINUING EDUCATION, HEALTH OCCUPATIONS
SEE EDUCATIDN, HEALTH DCCUPATIONS, CONTINUING EDUCATION

CONTINUITY OF PATIENT CARE
SEE HEALTH CARE SERVICES, PATIENT CARE MANAGEMENT, COMPREHENSIVE CARE

CONTRACEPTION
SEE FAMILY PLANNING
SEE FERTILITY, ANTIFERTILITY DRUGS

CONTRACTILE PROTEINS
SEE MUSCLE PROTEINS (AND CONTRACTILE PROTEINS)

CONTRACTION
SEE MUSCLE FUNCTION, MUSCLE CONTRACTION
SEE PROTEINS CONTRACTION

CONTRAST MEDIA
SEE RADIOGRAPHY, CONTRAST MEDIA*

CONTROL
SEE COMMUNICABLE DISEASE CONTROL
SEE FERTILITY, ANTIFERTILITY DRUGS
SEE HEALTH SDCIAL CONTROL

CONTROL OF VISCERAL RESPONSES BY SELF REGULATION
SEE PSYCHOLOGY, CONDITIDNING, AUTOGENIC AND INTERNAL CONTROL

CONVERTING VIRUSES
SEE VIRUS CHARACTERISTICS, TRANSFORMING VIRUSES

CONVULSIONS
SEE NEURDMOTDR DISDRDERS, CONVULSIONS

COOLEY'S ANEMIA
SEE HEMOPROTEINS, HEMOGLOBINOPATHIES, THALASSEMIA

COOPERATIVE MODEL
SEE BIOLDGICAL TRANSPDRT, MEMBRANE MDDELS

COOPERATIVE STUDY
ND1HB-53016-05 Cooperative study of factor VIII inhibitors in patients with hemophilia
** ND1HB-53018-04 Cooperative studies of factor VIII inhibitors in patients with hemophilia
N01HB-53019-06 Cooperative study of factor VIII inhibitors in patients with hemophilia
N01HB-53020-D4 Cooperative study of factor VIII inhibitors in patients with hemophilia
N01HB-53021-D5 Cooperative study of factor VIII inhibitors in patients with hemophilia
N01HB-53023-04 Cooperative study of factor VIII inhibitors in patients with hemophilia
N01HB-53D24-04 Cooperative studies of factor VIII inhibitors in patients with hemophilia
N01HB-53025-D5 Cooperative studies of factor VIII inhibitors in patients with hemophilia
N01HB-53035-04 Factor VIII inhibitors in patients with hemophilia
ND1HB-62970-02 Collection, function and transfusion of granulocytes
N01HB-62973-05 Collection, function and transfusion of granulocytes
** N01HB-72982-03 Statistical coordinating center for sickle cell disease
** R01HL-D8888-12 Cooperative study of drugs and coronary heart disease (men)
** R01HL-D8892-10 Cooperative study of drugs and coronary heart disease
** R01HL-09474-11 Natural history-congenital heart defects--Joint study (human)
** R01HL-09476-10 Natural history, congenital heart defects--Joint study
** R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
** R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
** R01HL-10711-12 Cooperative study of treatment of hypertension (human)
** R01HL-10718-10 Natural history of congenital heart defects--Joint study (human)
** R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)
** R01HL-12542-07 Natural history, congenital heart defects--Joint study (human)
** R01HL-15374-03 Cooperative study of drugs and coronary heart disease (human)
** R01HL-16908-04 Myocardial function, risk factors and future CHO (men)
** R01HL-16909-04 Myocardial function, risk factors and future CHO (men)
P50HL-17655-04 0009 Study of ischemic heart disease - Random trial of medical and surgical therapy in unstable angina (human)
P50HL-17665-04 0013 Study of ischemic heart disease - National cooperative study in unstable angina pectoris (human)
R01HL-18943-03 Contractile activity of single cardiac cells
R01HL-19138-03 Contractile activation of skinned cardiac cells (mammals)
** RD1HL-2D374-03 Myocardial function--Risk factors and future CHO (human)
R01HL-21D39-02 Vascular lesions of diabetes in Oklahoma Indians
N01HR-62942-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (humam)
ND1HR-62943-05 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
N01HR-62944-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
N01HR-62945-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
N01HR-62946-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
N01HR-62947-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
ND1HR-62948-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
N01HR-62949-05 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
N01HR-62950-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
N01HR-62951-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
N01HR-62952-05 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
N01HR-72902-04 Study of intermittent positive pressure breathing
N01HR-72903-05 Study of intermittent positive pressure breathing
N01HR-72904-D3 Study of intermittent positive pressure breathing
N01HR-729D5-D3 Study of intermittent positive pressure breathing
N01HR-729D6-D3 Study of intermittent positive pressure breathing
** N01HV-12017-15 Fabrication of grafted hydrogel coatings for plastic heart assist devices
N01HV-12D54-14 Development of intimal linings (human, cattle)
** N01HV-12156-10 Lipid research clinic
** N01HV-12158-10 Establishment of a lipid research clinic
** N01HV-12159-D9 Lipid research clinic
** N01HV-12160-15 Establishment of a lipid research clinic
** N01HV-12434-11 Therapy for hypertension in the general population
** ND1HV-12436-15 Hypertension therapy in the general population (human)
ND1HV-12440-14 Therapy for hypertension in the general population (human)
** N01HV-12442-14 Therapy for hypertension in the general population (human)
** N01HV-22913-09 Lipid research clinic
** N01HV-22914-08 Establishment of a lipid research clinic
** N01HV-22945-11 Cooperative hypertension detection and follow-up study (human)
** ND1HV-22971-D7 Prevention of coronary heart disease (human)
N01HV-22977-D8 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-22979-D7 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-22980-D6 Intervention trial for the prevention of coronary heart disease (human)
** ND1HV-22981-1D Intervention trial for the prevention of coronary heart disease (human)
** ND1HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
** ND1HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

N01HV 32913 11 Study elactrodeless glow discharge fui modifying polymar surface
** N01HV 32931 09 Establishment of a lipid research clinic center
** N01HV 32933 07 Hypertension datection and fulluw-up program central laboratory (human)
** N01HV 32974 09 Collaborative studies on coronaiy artery surgery (human)
** N01HV 32975 08 Collaborative studies on coronary arteiy surgery (human)
** N01HV 32976 09 Collaborative studies on coronary artery surgery (human)
** N01HV 32978 08 Collaborative studies on coionary artery surgeiy
N01HV 32979 09 Collaborative studies on coronary artery surgery
** N01HV 32980 07 Collaborative studies on coronary artery surgery (human)
** N01HV 32981 10 Collaborative studies on coronary artery surgery (human)
** N01HV 32983 11 Collaborative studies on coronary artery surgery (human)
** N01HV 32984 10 Collaborative studies on coronary artery surgery (human)
N01HV 32985 11 Collaburative studies on coronary artery surgery (human)
** N01HV 33105 09 Intervention trial for prevention of coronary heart disease (human)
** N01HV 33106 06 Intervention trial tor the prevention of coronary heart disease (human)
** N01HV 42929 08 Risk factor intervention trial for the prevention of CHO (human)
** N01HV 42930 09 Risk factor intervention trial for the prevention of CHO (human)
** N01HV-42933-09 Multiple risk factors in coronary heart disease (human)
** N01HV 52901-06 Aspirin-myocardial infarction study
** N01HV 52941-04 Center for aspirin-myocardial infarction study (human)
** N01HV 53015-09 Establishment of a lipid research clinic (human)
** N01HV-72940-02 Therapy to protect ischemic myocardium (human)
** N01HV-72941-02 Therapy to protect ischemic myocardium--Clinical tests
** N01HV-72942-02 Therapy to protect ischemic myocardium--Clinical tests
** N01HV-72948-03 Coordinating center for propranolol heart trial (human)
** N01HV-72949-03 ECC center for proprancolo heart trial
** N01HV-72950-02 Central laboratory for propranolol heart trial
** N01HV-72951-03 Clinical center for propranolol heart trial (human)
** N01HV-72952-02 Clinical center for propranolol heart trial (huamn)
** N01HV-72954-06 Clinical center for propranolol heart trial (human)
** N01HV-72955-02 Clinical center for propranolol heart trial (human)
** N01HV-72956-02 Clinical center for propranolol heart trial (human)
** N01HV-72957-02 Clinical center for propranolol heart trial (human)
** N01HV-72958-02 Clinical center for propranolol heart trail (human)
** N01HV-72959-04 Clinical center for propranolol heart trial (human)
** N01HV-72960-02 Clinical center propranolol heart trial (human)
** N01HV-72961-03 Clinical center for propranolol heart trial
** N01HV-72963-02 Clinical center for propranolol heart trial (human)
** N01HV-72964-02 Clinical center for propranolol heart trial (human)
** N01HV-72965-02 Clinical center for propranolol heart trial
** N01HV-72966-03 Clinical center for propranolol heart trial
** N01HV-72967-02 Clinical center for propranolol heart trial (human)
** N01HV-72968-03 Clinical center for propranolol heart trial
** N01HV-72969-02 Clinical center for propranolol heart trial (human)
** N01HV-72970-04 Clinical center for propranolol heart trial (human)
** N01HV-82900-03 Clinical center for propranolol heart trial (human)
** N01HV-82901-02 Clinical center for propranolol heart trial (human)
** N01HV-82902-02 Clinical center for propranolol heart trial (human)
** N01HV-82903-02 Clinical center for propranolol heart trial (human)
** N01HV-82904-02 Clinical center for propranolol heart trial (human)
** N01HV-82905-02 Clinical center for propranolol trial (human)
** N01HV-82906-02 Clinical center for propranolol heart trial (human)
** N01HV-82907-02 Clinical center for propranolol heart trial (human)
** N01HV-82908-02 Clinical center for propranolol heart trial (human)
** N01HV 82909 02 Clinical center for propranolol heart trial (human)
** N01HV 82910 00 Clinical center fur prupranolol heart trial (human)
** N01HV 82915 01 Tharapy for hypertension in tha general population (human)

COORDINATION COMPOUNDS, METAL
SEE METAL COMPLEXES

COPING BEHAVIOR
SEE PSYCHOLOGICAL ADAPTATION, COPING BEHAVIOR

COPOLYMERS
SEE MOLECULAR CONDENSATIONS, COPOLYMERS

COPPER
SEE METALS, HEAVY METALS, COPPER

COPROSTEROL
SEE CHOLESTANE SERIES 5 BETA, COPROSTEROL

COR PULMONALE
SEE RESPIRATORY CIRCULATORY DISORDERS, PULMONARY HEART DISEASE

CORE, VIRAL
SEE VIRUS COMPONENTS, CORE

CORI'S DISEASE
SEE METABOLIC DISORDERS INBORN, GLYCOGENOSIS, TYPE III

CORN OIL
SEE LIPIDS, OILS, VEGETABLE OILS

CORNEA
SEE EYE, CORNEA

CORONARY ARTERIES
SEE HEART VESSELS, CORONARY ARTERIES

CORONARY ARTERY SURGERY
SEE HEART REVASCULARIZATION

CORONARY BYPASS
SEE HEART REVASCULARIZATION, CORONARY BYPASS

CORONARY CARE UNITS
SEE HOSPITALS, INTENSIVE CARE UNITS, CORONARY

CORONARY CIRCULATION
SEE HEART CIRCULATION

CORONARY DILATORS
SEE CARDIOVASCULAR AGENTS, VASODILATORS, CORONARY

CORONARY DISORDERS
SEE HEART DISORDERS, CORONARY

CORONARY FIBROSIS
SEE HEART DISORDERS, CORONARY FIBROSIS

CORONARY OCCLUSIONS AND THROMBOSIS
SEE HEART DISORDERS, CORONARY OCCLUSIONS AND THROMBOSIS

CORONARY REVASCULARIZATION
SEE HEART REVASCULARIZATION

CORONARY SINUS
SEE HEART VESSELS, CORONARY VEINS, CORONARY SINUS

CORONARY VEINS
SEE HEART VESSELS, CORONARY VEINS

CORONARY VESSELS, HEART
SEE HEART VESSELS

CORPORA QUADRIGEMINA
SEE BRAIN, MESENCEPHALON, COLLICULUS INFERIOR

CORTICOSPINAL TRACTS
SEE NERVOUS SYSTEM CENTRAL, PYRAMIDAL TRACTS

CORTICOSTEROID BINDING GLOBULINS
SEE GLOBULINS, CORTICOSTEROID BINDING GLOBULIN

CORTICOSTEROIDS
SEE ADRENAL CORTEX HORMONES

CORTICOSTERONE
SEE ADRENAL CORTEX HORMONES, CORTICOSTERONE

CORTICOTROPIN
SEE PITUITARY-DIENCEPHALON HORMONES, ACTH

CORTISONE
SEE ADRENAL CORTEX HORMONES, CORTISONE

CORYNINE
SEE ALKALOIDS, RAUWOLFIA TYPE, YOHIMBINE

CORYZA AGENT OF CHIMPS
SEE VIRUSES, MYXOVIRUSES, RESPIRATORY SYNCYTIAL VIRUSES

COTHROMBOPLASTIN
SEE BLOOD COAGULATION, FACTOR VII

COTTON DUST PNEUMONITIS
SEE RESPIRATORY DISORDERS, BYSSINOSIS

COUGHING
SEE RESPIRATORY SYSTEM REFLEXES

COUMADIN
SEE BENZO-ALPHA-PYRONES, WARFARIN

COUMARINS
SEE BENZO-ALPHA-PYRONES

COUNSELING (PSYCHOLOGY)
SEE MENTAL HEALTH SERVICES, COUNSELING

COUNSELING, GENETIC
SEE GENETIC DISORDERS, GENETIC COUNSELING

COUNTERPULSATION ARTERIAL
SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, COUNTERPULSATION

COVALENT BONDS
SEE CHEMICAL BONDS, COVALENT

COXSACKIE VIRUSES
SEE VIRUSES, PICORNAVIRUSES, COXSACKIE VIRUSES

CREATINE
SEE AMINO ACIDS, CREATINE

CREATINE KINASE
SEE PHOSPHOTRANSFERASES, ATP:CREATINE PHOSPHOTRANSFERASE

CREATINE PHOSPHATE
SEE AMINO ACIDS, CREATINE PHOSPHATE

CREATININE
SEE AMINO ACIDS, CREATININE

CRECITUS
SEE MAMMALS, RODENTS, MYOMORPHA, HAMSTERS*

CRIB DEATH
SEE CHILDREN, INFANT AND CHILD MORTALITY, SUDDEN INFANT DEATH SYNDROME

CROSS CIRCULATION, SURGICAL
SEE CARDIOVASCULAR SURGERY, EXTRACORPOREAL CIRCULATION, CROSS CIRCULATION

CROSS IMMUNITY
SEE IMMUNITY, CROSS IMMUNITY

CROSSLINKS (CHEMICAL BONDS)
SEE CHEMICAL BONDS, CROSSLINKS

CROTON OIL
SEE LIPIDS, OILS, CROTON OIL

CRUSH SYNDROME
SEE KIDNEY DISORDERS, NEPHROSIS LOWER NEPHRON

CRUSTACEANS
SEE ARTHROPODS, CRUSTACEANS*

CRYOFIBRINOGEN
SEE BLOOD COAGULATION, CRYOFIBRINOGEN

CRYOFRACTURE ETCHING METHOD
SEE TEMPERATURE, FREEZE-ETCHING*

CRYOGLOBULINS
SEE GLOBULINS, CRYOGLOBULINS

CRYOPRESERVATION
SEE TEMPERATURE, CRYOSCIENCES, LOW TEMPERATURE PRESERVATION AND STORAGE

CRYOPROTECTIVE AGENTS
SEE TEMPERATURE, CRYOPROTECTIVE AGENTS

CRYOSCIENCES
SEE TEMPERATURE, CRYOSCIENCES

CRYOSURGERY
SEE TEMPERATURE (BODY), HYPOTHERMIA INDUCED, CRYOSURGERY

CRYOTHERAPY
SEE TEMPERATURE (BODY), HYPOTHERMIA INDUCED, CRYOTHERAPY

CRYSTALLIZATION
SEE PHYSICAL PROPERTIES, CRYSTALS, CRYSTALLIZATION

CRYSTALLOGRAPHY
SEE CHEMISTRY, ANALYTICAL METHODS, CRYSTALLOGRAPHY*

CRYSTALS
SEE PHYSICAL PROPERTIES, CRYSTALS, CRYSTALLIZATION

CULICIDS
SEE ARTHROPODS, INSECTS, DIPTERA, CULICIDS, MOSQUITOES*

CULTURE
SEE SOCIOLOGY AND ANTHROPOLOGY OTHER, CULTURE

CULTURE MEDIA
SEE GROWTH MEDIA

CULTURES
SEE GROWTH MICROORGANISMS, MICROBIAL CULTURE

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

SEE TISSUE (CELL) CULTURE*

CUPREINS, CYTOCUPREINS
SEE METALLOPROTEINS, CYTOCUPREINS

CURARIFORM DRUGS
SEE MUSCLE RELAXANTS

CURRICULUM
SEE EDUCATION, CURRICULUM

CUSHING'S SYNDROME
SEE ADRENAL GLANDS DISORDERS, HYPERADRENALISM, CUSHING'S SYNDROME

CUTANEOUS SENSORY NERVES
SEE NERVOUS SYSTEM, AFFERENT NERVES, CUTANEOUS SENSORY NERVES

CYANATES
SEE ALSO THIOCYANATES
** N01HB-22919-08 Hemoglobin carbamylation in the treatment of sickle cell anemia (human, dogs)
N01HB-22922-08 Develop effective therapy for sickle cell disease (human, dogs)
** N01HB-62962-02 Red cell distributions in cyanate-treated blood (human, sheep)
R01HL-02799-22 Abnormal hemoglobins (human)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
** P60HL-15169-05 0018 Support for center for sickle cell disease - Studies on sickle cell disease (human, rats, dogs)
** P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
R01HL-16375-04 Investigation of hemoglobin S properties (human)
P01HL-16833-04 0001 Hemoglobin and red cell system in hemoglobinopathies - Motility, association and ligand binding in hemoglobin--Hydrogen exchange
P01HL-16833-04 0011 Hemoglobin and red cell system in hemoglobinopathies - Relationship between hemoglobin and RBC membrane in sickling cells (human, rats)
P01HL-16833-04 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)
** R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)
R01HL-22780-01 Factors modifying the reaction properties of HgS (human)

CYANATES, ISOCYANATES
** P50HL-15092-07 0005 Immune and fibrotic response to occupational environments - Respiratory and immunologic evaluation of toluene diisocyanate exposure (human)
** P50HL-15092-07 0010 Immune and fibrotic response to occupational environments - Characterization of toluene diisocyanate in industrial environments
P50HL-15092-07 0014 Immune and fibrotic response to occupational environments - Clinical immunology core resource
** P60HL-15160-07 0008 Center for sickle cell disease - Isocyanate derivatives and hemoglobin S association (human, rat)

CYANIDES
SEE ALSO IRON CYANIDES
R01HL-17403-03 Metabolic control of cardiac output (dogs)
R01HL-18630-03 Pulmonary hemodynamics in atelectasis and hypoxia (dogs)
P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)

CYANIDES, ALKYL NITRILES
P01HL-06370-17 0015 Cardiopulmonary and renal pathology research center - Pathogenesis of chemically induced tissue injury (rats)

CYANIDES, AMINOALKYL NITRILES, BAPN
P01HL-16118-06 0006 Study of emphysema - Metabolism of elastin (hamsters)
R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)
R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)

CYANINE
SEE ALSO BENZOPYRROLES, INDOCYANINE GREEN
SEE ALSO MEROCYANINES
R01HL-17702-04 Electro-optical dyes as probes of heart excitability
R01HL-20254-02 Probes of heart and nerve membranes--Fluorescent dyes

CYANINS
SEE METALLOPROTEINS, HEMOCYANIN

CYANOCOBALAMIN
SEE VITAMIN B12

CYANOSIS
SEE RESPIRATORY GAS LEVELS, CYANOSIS

CYBERNETICS
SEE BIOMEDICAL SYSTEMS AUTOMATED, MONITORING DEVICES
SEE BIOMEDICAL SYSTEMS AUTOMATED, PATIENT MONITORING (MONITORING DEVICES)

CYBERNETICS (BIOLOGICAL)
SEE INFORMATION PROCESSING AND CONTROL (BIOLOGICAL)

CYBERNETICS (COMPUTER ARTIFICIAL INTELLIGENCE (GENERAL))
SEE COMPUTER, ARTIFICIAL INTELLIGENCE, PATTERN RECOGNITION AND CONTROL SYSTEMS

CYBERNETICS (COMPUTER) GENERAL
SEE COMPUTER, ARTIFICIAL INTELLIGENCE, PATTERN RECOGNITION AND CONTROL SYSTEMS

CYBERNETICS (NEURAL)
SEE INFORMATION PROCESSING AND CONTROL (NEURAL)

CYCLASE (ADENYL CYCLASE)
SEE NUCLEOTIDYL-CYCLASES, ADENYLATE CYCLASE

CYCLASE, GUANYL CYCLASE
SEE NUCLEOTIDYL-CYCLASES, GUANYLATE CYCLASE

CYCLIC AMINO ACIDS
R01HL-12526-09 Raman spectra of heme proteins and related molecules
P01HL-18974-03 0012 Experimental neurogenic hypertension program - Immunohistochemistryofcentral monoamineneurons(rats)

CYCLIC AMINO ACIDS, DOPA
R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)
R01HL-20194-01 Brain catecholamines in control of blood pressure (rats)
R01HL-21105-02 Organ specific drugs--Cardiovascular and renal effects (dogs)

CYCLIC AMINO ACIDS, DOPA, ALPHA-METHYL DOPA
P01HL-06835-17 0037 Cardiovascular disease - Cardiac hypertrophy in spontaneously hypertensive rat
P01HL-06835-17 0057 Cardiovascular disease - Studies on cardiac hypertrophy
P01HL-06835-17 0060 Cardiovascular disease - Ventricular performance experimental models of arterial hypertension (rats, dogs)
R01HL-10942-09 Study of genetic hypertension in rats
R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
R01HL-20087-02 Developmental processes in pulmonary hypertension (rats)
** R01HL-20194-01 Brain catecholamines in control of blood pressure (rats)
P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
P01HL-20552-02 0003 The development and regression of cardiac hypertrophy - Muscle mechanics of the hypertrophied left ventricle (rats)
R01HL-22032-01 Cardiovascular events in hypertensives (human)

CYCLIC AMINO ACIDS, HISTIDINE
P01HL-15596-05 0007 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of urokinase (human)
R01HL-18905-04 Acquisition of native conformation of proteins (human, cattle)
R01HL-21461-01 Heme group protein interactions in hemoproteins

CYCLIC AMINO ACIDS, PHENYLALANINE
SEE ALSO CYCLIC AMINO ACIDS, DOPA
SEE ALSO CYCLIC AMINO ACIDS, TYROSINE
P01HL-15195-04 0001 Program project in biological materials - Design and synthesis
R01HL-18258-04 Regulation of protein degradation in heart (rats)
R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)

CYCLIC AMINO ACIDS, PHENYLALANINE, P-CHLOROPHENYLALANINE
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)

CYCLIC AMINO ACIDS, PROLINE
P01HL-16118-06 0004 Study of emphysema - Metabolic activity of pulmonary connective tissue (human, hamsters)
P01HL-16118-06 0005 Study of emphysema - Mechanisms of elastase emphysema (mice)
R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)
R01HL-16904-03 Regulation of smooth muscle cells in arteriosclerosis (rabbit aorta)
R01HL-21303-02 Collagen synthesis by cultured human vascular cells
R23HL-22383-01 Biosynthesis--Response to oxygen depletion (human, primates, rats)

CYCLIC AMINO ACIDS, PROLINE, HYDROXYPROLINE
P01HL-06835-17 0041 Cardiovascular disease - Cardiac performance in rats with renal hypertension
P01HL-06835-17 0042 Cardiovascular disease - Myocardial hypertrophy due to renal hypertension (rats)
P01HL-06835-17 0057 Cardiovascular disease - Studies on cardiac hypertrophy
R01HL-15478-05 Lipid flux and collagen synthesis in atherosclerosis (rabbits)
R01HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
P50HL-17646-04 0005 Study of ischemic heart disease - Biochemical markers and mediators of myocardial ischemic injury
R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
R01HL-19252-02 Vascular connective tissue--Role in atherosclerosis (rabbits)
P01HL-20993-02 0005 Population dynamics of arterial cells in atherogenesis - Drugs other than hypolipidemic drugs affecting atherosclerosis (swine, rabbits)
R01HL-21993-01 Hypertensive hypertrophy--Effects of cardiac mechanics (rats)
R01HL-22729-01 Intracellular degradation of newly synthesized collagen (human, chick, rabbit)

CYCLIC AMINO ACIDS, TRYPTOPHAN
** R01HL-13645-11 Tryptophan-induced pulmonary emphysema (cattle, goats, rabbits)
R01HL-18163-04 Red cell membrane effects due to oxidizing agents

CYCLIC AMINO ACIDS, TYROSINE
SEE ALSO THYROID HORMONES, THYROXINE
R01HL-13164-07 Interaction of the alpha and beta chains of human hemoglobin

CYCLIC AMP
SEE PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, AMP CYCLIC

3':5'-CYCLIC-AMP PHOSPHODIESTERASE
SEE NUCLEASES, CYCLIC NUCLEOTIDE PHOSPHODIESTERASE

CYCLIC COMPOUNDS (GENERAL)
SEE CYCLICS (CYCLIC COMPOUNDS) GENERAL

CYCLIC FUNCTIONS, BIOLOGICAL
SEE BIOPERIODICITY, BIOLOGICAL CLOCKS

CYCLIC GMP
SEE PURINE NUCLEOTIDES, GUANINE NUCLEOTIDES, GMP CYCLIC

CYCLIC KETONES, CYCLOHEXANONES, KETAMINE
P50HL-14164-07 0042 A/S SCOR--Comparative and experimental atherosclerosis - Comparative cardiology laboratory (monkeys)

CYCLIC NUCLEOSIDE MONOPHOSPHATES
SEE NUCLEOTIDES, NUCLEOSIDE MONOPHOSPHATES CYCLIC

CYCLIC NUCLEOTIDE PHOSPHODIESTERASE
SEE NUCLEASES, CYCLIC NUCLEOTIDE PHOSPHODIESTERASE

CYCLIC NUCLEOTIDES
SEE NUCLEOTIDES, NUCLEOSIDE MONOPHOSPHATES CYCLIC

CYCLIC PHOSPHODIESTERASE
SEE NUCLEASES, CYCLIC NUCLEOTIDE PHOSPHODIESTERASE

CYCLICS (CYCLIC COMPOUNDS) GENERAL
P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury - Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)
R01HL-15447-06 Vascular role of prostaglandin and cyclic nucleotides (rats)
R01HL-17921-04 Peroxy radicals to prostaglandins in vessels and lung
R01HL-20579-02 Synthesis of therapeutically important alkaloids
R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)
R01HL-21367-02 Polyether ionophores--Synthesis of X537A and analogs
R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease

CYCLICS, CARBOPOLYCYCLICS
SEE ALSO STEROIDS
R01HL-19654-03 Biochemical-pharmacological evaluation of lung cells (rabbits)

CYCLICS, CARBOPOLYCYCLICS, BENZANTHRACENES
P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury - Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

CYCLICS, CARBOPOLYCYCLICS, BENZOPYRENES
P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)
P60HL-17269-04 0015 National heart and blood vessel research and demonstration center Lipoprotein metabolism laboratory (human)
R23HL-19605-01 Lipid requirement of the lung mono-oxygenase system (rabbits)

CYCLICS, CARBOPOLYCYCLICS, METHYLCHOLANTHRENE
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)

CYCLICS, CARBOPOLYCYCLICS, PYRENES
R01HL-16828-04 Gradient and transport of oxygen in tissue and organs (mammals)
P60HL-17269-04 0015 National heart and blood vessel research and demonstration center - Lipoprotein metabolism laboratory (human)

CYCLICS, HETEROCYCLICS
SEE ALSO NITROARYLS
SEE ALSO PHOSPHOARYLS
R01HL-18764-03 Biosorbable thromboresistant surfaces (dogs, rats, swine, human)

CYCLIZATION, DIELS-ALDER REACTION
R01HL-20579-02 Synthesis of therapeutically important alkaloids

CYCLOHEPTANES, AMITRIPTYLINE
R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)

CYCLOHEPTANES, CYPROHEPTADINE
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)

CYCLOOLEFINS --ALSO SEE APPROPRIATE CARBOPOLYCYCLICS AND
SEE ALSO BENZENE
R01HL-20996-02 Structural and reactivity of iron and cobalt complexes

CYCLOPHOSPHAMIDE
SEE HALOALKYLAMINES, CYCLOPHOSPHAMIDE

CYCLOTRON
SEE RADIATION, PARTICLE ACCELERATORS

CYNOPITHECUS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD-WORLD MONKEYS, MACACA SP.*

CYPROHEPTADINE
SEE CYCLOHEPTANES, CYPROHEPTADINE

CYPROTERONE (ACETATE)
SEE PROGESTERONE ANALOGS, CYPROTERONE (ACETATE)

CYSTAMINE
SEE AMINO SULFIDES, CYSTAMINE

CYSTATHIONINE SYNTHETASE DEFICIENCY
SEE METABOLIC DISORDERS INBORN, AMINOACIDOPATHIES, HOMOCYSTINURIA

CYSTEAMINE
SEE AMINOTHIOLS, CYSTEAMINE

CYSTEINE
SEE SULFUR AMINO ACIDS, CYSTEINE

CYSTIC FIBROSIS
SEE METABOLIC DISORDERS INBORN, CYSTIC FIBROSIS

CYTOCHALASIN (B)
SEE TOXICOLOGY, MYCOTOXINS, CYTOCHALASIN

CYTOCHEMISTRY
SEE HISTOCHEMISTRY AND CYTOCHEMISTRY (GENERAL)*

CYTOCHROME
SEE HEMOPROTEINS, CYTOCHROME

CYTOCHROME A
SEE HEMOPROTEINS, CYTOCHROME A

CYTOCHROME B
SEE HEMOPROTEINS, CYTOCHROME B

CYTOCHROME B5 OXIDOREDUCTASE
SEE OXIDOREDUCTASES, CYTOCHROME B5 REDUCTASES

CYTOCHROME B5 REDUCTASES
SEE OXIDOREDUCTASES, CYTOCHROME B5 REDUCTASES

CYTOCHROME C
SEE HEMOPROTEINS, CYTOCHROME C

CYTOCHROME OXIDASES
SEE OXIDOREDUCTASES, CYTOCHROME OXIDASES

CYTOCHROME P450
SEE HEMOPROTEINS, CYTOCHROME P450

CYTOCUPREINS
SEE METALLOPROTEINS, CYTOCUPREINS

CYTODIAGNOSIS
SEE DIAGNOSTIC TESTS, CYTODIAGNOSIS*

CYTOGENETICS
SEE GENETICS, CYTOGENETICS

CYTOLOGY (GENERAL) SEE ALSO CELL...CYTO...*
SEE ALSO CELLS
SEE ALSO GENETICS, CYTOGENETICS
SEE ALSO MOLECULAR CYTOLOGY STUDY SECTION
SEE ALSO OPTICS, MICROSCOPY (GENERAL)*
P01HL-18208-04 0002 Center for the study of blood cell rheology - Holography of RBC shape (human)
P50HL-19155-02 0008 Pathophysiology of pulmonary edema - Core microscopy laboratory
P50HL-19156-02 0006 Pulmonary SCOR--Chronic diseases of airways - Core microscopy laboratory
P50HL-19185-02 0012 Pulmonary SCOR--Neonatal respiratory distress syndromes - Core microscopy lab
R01HL-19684-03 Histotypic lung culture in circumfusion systems (mice)
N01HR-62930-03 Lung cell resource facility

CYTOLYSING T LYMPHOCYTES
SEE BLOOD CELLS, T LYMPHOCYTES, KILLER

CYTOLYSIS
SEE CELL DESTRUCTION, CYTOLYSIS

CYTOMEGALOVIRUSES
SEE VIRUSES, HERPESVIRUSES, CYTOMEGALOVIRUSES

CYTOPATHOGENIC EFFECT BACTERIAL
SEE BACTERIAL DISEASES, CYTOPATHOGENIC EFFECT BACTERIAL

CYTOPATHOGENIC EFFECT VIRAL
SEE VIRUS DISEASE CHARACTERISTICS, CYTOPATHOGENIC EFFECT VIRAL

CYTOPHILIC ANTIBODIES HUMORAL (CIRCULATING) (SERUM)
SEE HYPERSENSITIVITY, SENSITIZING ANTIBODIES HUMORAL

CYTOPLASM
SEE CELL COMPONENTS, CYTOPLASM

CYTOPLASMIC GRANULES
SEE CELL COMPONENTS, CYTOPLASMIC GRANULES

CYTOSIDE MONOHEXOSIDES
SEE GLYCOSPHINGOLIPIDS, CERAMIDE TRIHEXOSIDES

CYTOSIDES
SEE GLYCOSPHINGOLIPIDS, CERAMIDE DIHEXOSIDES

CYTOSINE ARABINOSIDE
SEE PYRIMIDINE NUCLEOSIDES, CYTOSINE NUCLEOSIDES, CYTOSINE ARABINOSIDE

CYTOTOXIC T LYMPHOCYTES
SEE BLOOD CELLS, T LYMPHOCYTES, KILLER

CYTOTOXICITY
SEE TOXICOLOGY, CYTOTOXICITY

CYTOXAN
SEE HALOALKYLAMINES, CYCLOPHOSPHAMIDE

DACRON
SEE PLASTICS, POLYETHYLENE TEREPHTHALATES

DALMANE
SEE AZEPINES, DIAZEPINES, FLURAZEPAM

DANLOS SYNDROME
SEE METABOLIC DISORDERS INBORN, EHLERS-DANLOS SYNDROME

DANTRIUM
SEE IMIDAZOLEDIONES, HYDANTOINS, DANTROLENE

DANTROLENE
SEE IMIDAZOLEDIONES, HYDANTOINS, DANTROLENE

DAPSONE
SEE SULFONES, DAPSONE

DARENTHIN
SEE PHENYLALKYLAMINES, BENZYLAMINES, BRETYLIUM TOSYLATE

DARK ADAPTATION
SEE EYE, VISION, DARK ADAPTATION

DARK REPAIR (DNA)
SEE NUCLEIC ACIDS REPAIR, DNA REPAIR (ENZYME)

DATA BANKS
SEE CHEMICAL AND DRUG INFORMATION SYSTEMS
SEE INFORMATION SYSTEMS (INCL BANKS AND CENTERS)

DATA MANAGEMENT SYSTEMS
SEE INFORMATION SYSTEMS (INCL BANKS AND CENTERS)

DATA MONITORING AND REPORTING SYSTEMS
SEE INFORMATION SYSTEMS (INCL BANKS AND CENTERS)

DATA PROCESSING, AUTOMATIC
SEE INFORMATION AND COMMUNICATION, AUTOMATIC DATA PROCESSING

DATA RETRIEVAL
SEE INFORMATION SYSTEMS, INFORMATION RETRIEVAL

DATAPHONE
SEE COMPUTER, DATAPHONE

DAUNOBLASTIN
SEE ANTIBIOTICS, DAUNOMYCIN

DAUNOMYCIN
SEE ANTIBIOTICS, DAUNOMYCIN

DAUNORUBICIN
SEE ANTIBIOTICS, DAUNOMYCIN

DDT
SEE PESTICIDES, INSECTICIDES, CHLORINATED HYDROCARBON INSECTICIDES, DDT

DEAE CELLULOSE CHROMATOGRAPHY
SEE PHYSICAL SEPARATION, CHROMATOGRAPHY, DEAE CELLULOSE*

DEALKYLATION
SEE ALKYL (GROUPS), ALKYLATION-DEALKYLATION

DEAMINASES
SEE AMINOHYDROLASES

DEATH, CADAVER (TISSUE)
R01HL-23994-01 Biochemical properties of human cardiac myosin

DEATH, CEREBRAL
R01HL-20143-02 Hypothermic circulatory arrest--Cerebral vascular change (dogs)

DEATH, POST-MORTEM
R01HL-01803-23 0005 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic and dietary synergy in the pathogenesis of atherosclerosis (rabbits)
R01HL-01803-23 0010 Arteriosclerosis, glomerulonephritis, rheumatic fever - Atherosclerosis induction--Graft rejection and hypercholesterolemia (rabbits)
R01HL-01803-23 0011 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
R01HL-05694-20 Functional pathology of cardiovascular disease (human)
** P01HL-10436-13 0009 A multidisciplinary study of congenital heartdisease - Pathophysiology and morphogenesis of congenital heart disease (human)
P01HL-12373-10 0016 Cardiopulmonary physiology and pathophysiology - Histology-histochemistry-Gough laboratory
P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
P50HL-14136-07 0004 Pulmonary SCOR--Airways obstructive diseases - Morphometric studies of developing emphysema (human)
P50HL-14136-07 9003 Pulmonary SCOR--Airways obstructive diseases - Pathology core (human, dogs)
P50HL-14138-05 0009 Center for research on atherosclerosis - Core angiographic-diagnostic laboratory (human, dogs, birds)
P50HL-14153-07 0019 Johns Hopkins Lung Center--Chronic diseases of airways - Pathology core (human, animal)
P50HL-14164-07 0026 A/S SCOR--Comparative and experimental atherosclerosis - Comparative pathology unit (pigeons, monkeys)
P50HL-15389-07 0018 Pulmonary SCOR--Hypersensitivity pneumonitis - Pathology core (human, animal)
P60HL-17269-04 0001 National heart and blood vessel research and demonstration center - Atherosclerosis--Arterial pathology and plasma lipids (human)
P60HL-17269-04 0048 National heart and blood vessel research and demonstration center - Atherosclerosis--Lipoproteins and the arterial wall (human)
P60HL-17292-04 0003 Vermont Lung Center - Subclinical pulmonary disease in a rural environment (human)
P50HL-17646-04 0003 Study of ischemic heart disease - Core pathology facility (human, dogs)
** P50HL-17648-04 0020 Study of ischemic heart disease - Core pathology laboratory--Ischemic heart disease (human, animal)
P50HL-17648-04 0021 Study of ischemic heart disease - Biventricular contractile responses to acute myocardial infarction (mammals)
P50HL-17655-04 0010 Study of ischemic heart disease - Core facility--Cardiovascular pathology (human, animal)
P50HL-17665-04 0028 Study of ischemic heart disease - Pathologic and biochemical studies of ischemic myocardium (human, dog)
P50HL-17667-04 0045 Study of ischemic heart disease - Pathology of myocardial ischemic necrosis (human)

(contd)

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P50HL-17669-04 0022 Ischemic heart disease center (SCOR) i Pathological studies of human and experimental ischemic heart disease
P50HL-17670-04 0016 Study of ischemic heart disease - Core pathology laboratory (human, dogs, monkeys)
P50HL-17682-04 0012 Study of ischemic heart disease - Pathology core laboratory (human)
R01HL-18793-03 Clinical-pathologic studies of sudden cardiac death (human)
R01HL-18805-04 0007 Sudden cardiac death and the onset of myocardial infarction - Analysis of pathologic factors involved in sudden death (human)
P50HL-19362-02 0015 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Pathology and morphometry (baboons)
R01HL-20500-02 Diabetic human brain microvascular basement membrane (human)
R01HL-20895-03 0006 Cineangiographic studies of cardiovascular system - Cardiomyopathy--Hemodynamic, radiologic, morphologic abnormalities (dog, rabbit)
R01HL-20895-03 0007 Cineangiographic studies of cardiovascular system - Determinants of collateral formation (dogs, hamsters)
R01HL-21684-02 0003 Radionuclide infarctsizing and therapy evaluation - Core pathology laboratory (dogs, human)

DEATH CERTIFICATES, MORTALITY DATA
SEE POPULATION STUDIES HUMAN, MORTALITY

DEBRANCHER DEFICIENCY GLYCOGENOSIS
SEE METABOLIC DISORDERS INBORN, GLYCOGENOSIS, TYPE III

DECARBOXYLASES, AMINO ACID DECARBOXYLASES
R01HL-21105-02 Organ specific drugs--Cardiovascular and renal effects (dogs)

DECARBOXYLASES, HISTIDINE DECARBOXYLASE
P01HL-14388-07 0187 Regulation of the circulation in pathological states - Histamine and circulatory control
R01HL-19830-02 Shear to aortic histamine synthesis and permeability (dogs)
R01HL-20460-03 Aortic histamine synthesis in diabetes (rat)
P01HL-22602-01 0003 Pathophysiology of the endothelium - Mechanisms of endothelial proliferation (human, animals)

DECARBOXYLASES, ORNITHINE DECARBOXYLASE
P50HL-19157-02 0009 Studies in cystic fibrosis and bronchiolitis - Polyamine metabolism in cystic fibrosis (human, rat)
** P01HL-20984-02 0006 Cellular mechanisms in cardiac hypertrophy - Early biochemical aspects of cardiac hypertrophy (rats)
** R23HL-21234-02 The regulation of cardiac hypertrophy (rabbits)

DECARBOXYLASES INHIBITORS
SEE ENZYME INHIBITORS, DECARBOXYLASES INHIBITORS

DECELERATION
SEE ENVIRONMENT, GRAVITY-MOTION

DECEREBRATION
SEE BRAIN LESIONS SURGICAL, DECEREBRATION

DECISION MAKING
SEE PSYCHOLOGY, COGNITION, DECISION MAKING

DECISION MAKING, BIOMEDICAL RESEARCH PROGRAM EVALUATION
SEE HEALTH SCIENCES RESEARCH-ANALYSIS-EVALUATION-PLANNING

DECISION MAKING, COMPUTER ASSISTED MEDICAL DECISION MAKING
SEE BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED MEDICAL DECISION MAKING

DECISION MAKING, EDUCATION PROGRAMS (SYSTEMS) EVALUATION-PLANNING
SEE EDUCATION PROGRAMS (SYSTEMS) EVALUATION-PLANNING

DECISION MAKING, HEALTH CARE EVALUATION
SEE HEALTH CARE (SERVICES)(RESOURCES) ANALYSIS AND EVALUATION

DECISION MAKING, HEALTH CARE PLANNING
SEE HEALTH CARE (SERVICES)(RESOURCES) PLANNING

DECOMPRESSION
SEE ENVIRONMENT, ATMOSPHERIC PRESSURE, COMPRESSION-DECOMPRESSION

DECOMPRESSION SICKNESS
SEE INJURIES, DYSBARISM

DEEP SEA DIVING
SEE WATER ENVIRONMENT, DIVING AND SWIMMING

DEEP VEIN THROMBOSIS
SEE CARDIOVASCULAR DISORDERS, THROMBOSIS, VENOUS

DEFENSE MECHANISMS
SEE PSYCHOLOGY, DEFENSE MECHANISMS

DEFEROXAMINE
SEE IRON, FEROXAMINE-DEFEROXAMINE

DEFIBRILLATION ELECTRICAL
SEE HEART RESUSCITATION, ELECTRIC COUNTERSHOCK

DEFIBRILLATORY AGENTS
SEE CARDIOVASCULAR AGENTS, ANTIARRHYTHMIC AGENTS

DEGLUTITION
SEE GASTROINTESTINAL FUNCTION, DEGLUTITION

DEHYDRASES
SEE DEHYDRATASES
SEE OXIDOREDUCTASES, DEHYDROGENASES

DEHYDRATASES
R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)

DEHYDRATASES, CARBONIC ANHYDRASE
P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)
R01HL-14131-18 Abnormal hemoglobin syndromes (human)
R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)
R01HL-16059-06 Structure and function of serum lipoproteins (cattle, human)
** R01HL-17963-04 Human erythrocyte carbonic anhydrase
P01HL-18577-03 0005 Lipoproteins--Cell surface interactions - Chemical synthesis of apolipoproteins and apoliprotein fragments
** R01HL-18905-04 Acquisition of native conformation of proteins (human, cattle)
R01HL-19008-02 Carbon dioxide diffusion in lung and muscle tissues (dogs)
P01HL-19737-02 0005 Cellular and molecular aspects of respiratory physiology - Interaction of respiratory exchanges and blood gas parameters (human, animals)
P01HL-19737-02 0008 Cellular and molecular aspects of respiratory physiology - Kinetics of movement of acid metabolites from cell to capillary blood (dogs)
P01HL-19737-02 0011 Cellular and molecular aspects of respiratory physiology - Chemical and metabolic factors on peripheral chemoreceptor activity (cats)
** R01HL-22258-01 New aspectsof pharmacology related to carbonic anhydrase

DEHYDRATION, BODY FLUIDS
SEE BODY FLUID BALANCE, BODY WATER, DEHYDRATION

DEHYDRATION REACTIONS
SEE CHEMICAL REACTIONS, HYDRATION, DEHYDRATION

DEHYDROEPIANDROSTERONE
SEE ANDROSTANE SERIES, DEHYDROEPIANDROSTERONE

DEHYDROGENASES
SEE OXIDOREDUCTASES, DEHYDROGENASES

DEIODINATION
SEE HALOGENATION, IODINATION-DEIODINATION

DELAYED ACTION PREPARATIONS
SEE DOSAGE FORMS

DELAYED HYPERSENSITIVITY
SEE HYPERSENSITIVITY, DELAYED HYPERSENSITIVITY

DELETION, CHROMOSOME
SEE GENETICS, MUTATION, CHROMOSOME MUTATION, DELETION

DELIVERY
SEE PREGNANCY, BIRTH

DELIVERY OF HEALTH CARE
SEE HEALTH CARE SERVICES, PATIENT CARE MANAGEMENT

DEMECOLCINE
SEE ALKALOIDS, DEMECOLCINE

DEMENTIA SENILE
SEE BRAIN DISORDERS, CEREBRAL ATROPHY DIFFUSE, SENILE DEMENTIA

DEMETHYLATION
SEE ALKYL (GROUPS), DEMETHYLATION

DEMOGRAPHY
SEE POPULATION STUDIES HUMAN, DEMOGRAPHY

DEMONSTRATION PROJECTS
SEE HEALTH SERVICES DEMONSTRATION PROJECTS

DEMYELINATION AND DEMYELINATING DISORDERS
SEE NERVOUS DISORDERS, MYELINOPATHIES (GENERAL)

DENATURATION
SEE PROTEINS DENATURATION

DENERVATION
SEE NEUROSURGERY, DENERVATION (GENERAL)

DENGUE
SEE VIRUS DISEASES, ARBOVIRUS, DENGUE

DENIAL AS A DEFENSE MECHANISM
SEE PSYCHOLOGY, DEFENSE MECHANISMS, DENIAL

DENSITOMETRY
SEE PHYSICAL PROPERTIES, DENSITOMETRY*

DENSITY (SPECIFIC GRAVITY)
SEE PHYSICAL PROPERTIES, DENSITY (SPECIFIC GRAVITY)

DENSITY, ELECTRON
SEE ELECTRON CHARGE DISTRIBUTION

DENSITY, OPTICAL
SEE PHYSICAL PROPERTIES, DENSITOMETRY*

DENSITY-GRADIENT ULTRACENTRIFUGATION
SEE PHYSICAL SEPARATION, ULTRACENTRIFUGATION, DENSITY GRADIENT*

DENTAL DEVELOPMENT
R01HL-11153-12 Quantitation of flow and solute flux in microvessels (cats, rats)

DENTAL STRUCTURE, GINGIVA
R01HL-11153-12 Quantitation of flow and solute flux in microvessels (cats, rats)

DEOXYCHOLATES
SEE CHOLANATE SERIES, DEOXYCHOLATES

DEOXYCORTICOSTERONE
SEE ADRENAL CORTEX HORMONES, DEOXYCORTICOSTERONE

11-DEOXY-17-HYDROXYCORTICOSTERONE
SEE ADRENAL CORTEX HORMONES, 11-DEOXY-17-HYDROXYCORTICOSTERONE

DEOXYRIBONUCLEASE
SEE NUCLEASES, DEOXYRIBONUCLEASE

DEOXYRIBONUCLEATE 5'-OLIGONUCLEOTIDYLHYDROLASE
SEE NUCLEASES, DEOXYRIBONUCLEASE

DEOXYRIBONUCLEIC ACID POLYMERASE
SEE NUCLEOTIDYLTRANSFERASES, DNA NUCLEOTIDYLTRANSFERASES

DEOXYRIBONCULEIC ACID(S)
SEE NUCLEIC ACIDS, DNA

DEOXYRIBONUCLEIC ACID(S) REPLICATION
SEE NUCLEIC ACIDS SYNTHESIS, DNA

DEOXYRIBONUCLEOSIDE MONOPHOSPHATES CYCLIC
SEE NUCLEOTIDES, DEOXYRIBONUCLEOSIDE MONOPHOSPHATES CYCLIC

DEOXYRIBONUCLEOSIDE TRIPHOSPHATE DNA NUCLEOTIDYL TRANSFERASE
SEE NUCLEOTIDYLTRANSFERASES, DNA NUCLEOTIDYLTRANSFERASES

DEOXYTHIOGUANOSINE
SEE THIOPURINE NUCLEOSIDES, THIOGUANINE NUCLEOSIDES, DEOXYTHIOGUANOSINE

DEPENDENCY, EMOTIONAL
SEE PSYCHOLOGY, EMOTIONAL DEPENDENCY-INDEPENDENCY

DEPOLARIZING AGENTS NEUROMUSCULAR
SEE MUSCLE RELAXANTS, NEUROMUSCULAR BLOCKING AGENTS DEPOLARIZING

DEPOLYMERIZATION
SEE MOLECULAR CONDENSATIONS, POLYMERIZATION-DEPOLYMERIZATION

DEPRESSANTS (APPETITE)
SEE NUTRIENT INTAKE ACTIVITY, APPETITE DEPRESSANTS

DEPRESSION
SEE PSYCHOLOGY, EMOTIONS, DEPRESSION

DEPRESSION, REACTIVE PSYCHOTIC
SEE PSYCHOSIS, DEPRESSIVE, REACTIVE PSYCHOTIC DEPRESSION

DEPRIVATION
SEE PSYCHOSOCIAL ISOLATION-DEPRIVATION

DEPTH INTOXICATION
SEE INJURIES, DYSBARISM, INERT GAS NARCOSIS

DERMATAN SULFATE
SEE POLYSACCHARIDES, GLYCOSAMINOGLYCANS, DERMATAN SULFATE

DESENSITIZATION FOR HYPERSENSITIVITY
SEE HYPERSENSITIVITY DESENSITIZATION

DESENSITIZATION PSYCHOTHERAPY
SEE PSYCHOTHERAPY, DESENSITIZATION

DESFERRIOXAMINE
SEE IRON, FEROXAMINE-DEFEROXAMINE

(contd)

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**Oriented significantly to above subject.

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DESIGN OF COMPUTERS
SEE COMPUTER, DESIGN AND EVALUATION OF COMPUTERS (INCL. HARDWARE)

DESIPRAMINE
SEE AZEPINES, DESIPRAMINE

DESMOSOMES
SEE CELL-CELL INTERACTION, INTERCELLULAR CONNECTIONS-JUNCTIONS

DETACHED RETINA
SEE EYE DISORDERS, RETINA AND CHOROID DISORDERS, RETINA DETACHMENT

DETERGENTS
SEE PHYSICAL PROPERTIES, SURFACTANTS, DETERGENTS

DETOXICATION
SEE TOXICOLOGY, TOXICANT METABOLISM, DETOXICATION

DETROTHYRONINE
SEE THYROID HORMONES, DEXTROTHYROXINE

DEVELOPMENT
SEE CELL DIFFERENTIATION
SEE CHILD DEVELOPMENT (NON-PSYCHOLOGICAL)
SEE EMBRYOLOGY
SEE GROWTH AND DEVELOPMENT

DEVELOPMENTAL BEHAVIORAL SCIENCES STUDY SECTION
SEE BEHAVIORAL SCIENCES (DEVELOPMENTAL) STUDY SECTION

DEVELOPMENTAL DISORDERS (INTRAUTERINE FAILURE TO THRIVE)
SEE PREGNANCY DISORDERS, EMBRYO-FETAL GROWTH-DEVELOPMENT DISORDERS (SEE ALSO APPROPRIATE SPECIFICS)

DEVELOPMENTAL NUTRITION (GENERAL)
SEE NUTRITION, DEVELOPMENTAL NUTRITION

DEVELOPMENTAL PHARMACOLOGY (DRUG ADVERSE EFFECTS FETAL)
SEE PREGNANCY, EMBRYO-FETUS DRUGS ADVERSE EFFECTS

DEVELOPMENTAL PSYCHOLOGY (CHILD MENTAL DEVELOPMENT)
SEE CHILD MENTAL DEVELOPMENT

DEXAMETHASONE
SEE ADRENAL CORTEX HORMONES ANALOGS, DEXAMETHASONE

DEXEDRINE
SEE PHENYLALKYLAMINES, D-AMPHETAMINE

DEXTRAN
SEE HEXOSANS, GLUCANS, DEXTRAN

DEXTROAMPHETAMINE
SEE PHENYLALKYLAMINES, D-AMPHETAMINE

DEXTROTHYROXINE
SEE THYRDIO HORMONES, DEXTROTHYROXINE

DFP
SEE PHOSPHATES, FLUOROPHOSPHATES, DFP

DIABETES (INCLUDING NON-INBORN CASES)
SEE CARBOHYDRATES METABOLISM DISORDERS, DIABETES

DIABETES, JUVENILE
SEE CARBOHYDRATES METABOLISM DISORDERS, DIABETES, JUVENILE

DIABETES BRONZE
SEE METABOLIC DISORDERS INBORN, HEMOCHROMATOSIS

DIABETES IN PREGNANCY
SEE CARBOHYDRATES METABOLISM DISORDERS, DIABETES IN PREGNANCY

DIABETES INSIPIDUS
SEE METABOLIC DISORDERS (INBORN), DIABETES INSIPIDUS

DIABETES MELLITUS
SEE CARBOHYDRATES METABOLISM DISORDERS, DIABETES

DIABETIC ACIDOSIS
SEE CARBOHYDRATES METABOLISM DISORDERS, DIABETIC ACIDOSIS

DIABETIC ANGIOPATHIES
SEE CARBOHYDRATES METABOLISM DISORDERS, DIABETIC ANGIOPATHIES

DIABETIC NEPHROPATHIES
SEE CARBOHYDRATES METABOLISM DISORDERS, DIABETIC NEPHROPATHIES

DIABETIC NEUROPATHIES
SEE CARBOHYDRATES METABOLISM DISORDERS, DIABETIC NEUROPATHIES

DIABETIC RETINOPATHY
SEE CARBOHYDRATES METABOLISM DISORDERS, DIABETIC RETINOPATHY

DIACYLGLYCEROL LIPASE
SEE LIPASES, LIPOPROTEIN LIPASE

DIADIC INTERACTION
SEE PSYCHOLOGY SOCIAL, INTERPERSONAL RELATIONS, DIADIC INTERACTION

DIAGNOSTIC ACCURACY
SEE DIAGNOSTIC QUALITY STANDARDS

DIAGNOSTIC ERRORS
SEE DIAGNOSTIC QUALITY-STANDARDS

DIAGNOSTIC PROCEDURES SAFETY
SEE DIAGNOSTIC QUALITY STANDARDS, DIAGNOSTIC PROCEDURES SAFETY

DIAGNOSTIC QUALITY-STANDARDS

M P01HL-07293-17 Non-invasive cardiovascular measurements
** P01HL-07293-17 0049 Non-invasive cardiovascular measurements - Cardiac scanner engineering evaluation and error analysis
** P01HL-07293-17 0050 Non-invasive cardiovascular measurements - Cardiac dimensions measurements engineering evaluation and error analysis
** P01HL-07293-17 0051 Non-invasive cardiovascular measurements - Physiologic evaluation of duplex scanner (dogs)
** P01HL-07293-17 0052 Non-invasive cardiovascular measurements - Clinical evaluation of the duplex scanner (human)
** P01HL-07293-17 0053 Non-invasive cardiovascular measurements - Clinical evaluation of cardiac dimensions using the duplex scanner (human)
P01HL-07293-17 0055 Non-invasive cardiovascular measurements - Peripheral vascular transducer position locating system
** P01HL-07293-17 0057 Non-invasive cardiovascular measurements - Peripheral vascular scanner engineering evaluation and error analysis (human)
** P01HL-07293-17 0058 Non-invasive cardiovascular measurements - Peripheral duplex scanner physiologic evaluation
P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
P01HL-10539-12 0064 Pathophysiology of circulation - Exercise physiology and pathophysiology (human)
** R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
P01HL-12738-10 0127 Physiologic pharmacology and its clinical applications - Cardiac electrical activity (human, animals)
P01HL-13108-09 0002 Clinical heart transplantation - Preoperative immunologic studies of cardiac recipients
P50HL-14136-07 0005 Pulmonary SCOR--Airways obstructive diseases - Radiographic studies of airways obstructive disease (human)
** R01HL-14785-07 Ultrasonic scattering for tissue characterization (dogs, cattle, human)
** P50HL-15092-07 0013 Immune and fibrotic response to occupational environments - Epidemiology core resource
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
P60HL-15160-07 0013 Center for sickle cell disease - Immunochemical diagnosis of hemoglobinopathies (infants)
P01HL-15194-07 0025 Pathophysiology of cardiopulmonary dysfunction - Myoglobinemia as an index of myocardial ischemia and infarction
P01HL-15265-05 0003 Program on surgical control of the hyperlipidemias - Central lipid laboratory
P01HL-15265-05 0012 Program on surgical control of the hyperlipidemias - Central arteriography--Radiography laboratory (human)
** R01HL-16292-05 0020 Surgery and non-obstructive coronary insufficiency - Limitation of transthoracic ECG in detecting subendocardial ischemia (dogs)
** R01HL-16784-03 Lung tissue and water volume (human, dogs)
R01HL-17578-04 Exercise performance in children with heart disease
P50HL-17648-04 0018 Study of ischemic heart disease - Myocardial damage--Infarction vectors recalled by premature atrial stimulation
P50HL-17648-04 0033 Study of ischemic heart disease - Data management--Electrocardiographic analysis system
P50HL-17665-04 0005 Study of ischemic heart disease - Evaluation of zone of jeopardized myocardium in patients with angina pectoris
P50HL-17665-04 0027 Study of ischemic heart disease - Positron imaging of regional myocardial perfusion (human, dog)
P50HL-17667-04 0043 Study of ischemic heart disease - Quantitation of myocardial infarct size by serial enzyme measurements (human)
** P50HL-17670-04 0005 Study of ischemic heart disease - Quantitative assessment of the vectorcardiogram (human)
P50HL-17670-04 0015 Study of ischemic heart disease - Radionuclide studies of myocardial ischemia (human)
P50HL-17682-04 0008 Study of ischemic heart disease Clinical core unit
P50HL-17682-04 0011 Study of ischemic heart disease Nuclear medicine core unit (human, dogs, rabbits, mice)
** R01HL-17726-03 Bacterial heparinase in diagnostic coagulation studies
R01HL-17826-04 Oxygen delivery to tissue (rat, dog)
R01HL-17931-04 Normalized body surface potential maps (children)
R01HL-18456-03 Cardiovascular follow-up of hypertensive adolescents
R01HL-18783-04 Detection and control of ventricular premature beats (human)
R01HL-18805-04 0001 Sudden cardiac death and the onset of myocardial infarction Predictive value of maximum exercise stress testing (human)
** R01HL-18850-03 Classification code for Frank orthogonal ECG
R01HL-19095-03 Laser spectroscopy of lipoproteins (human)
** P50HL-19153-02 0006 SCOR-Pulmonary edemas--Etiology, pathogenesis - Pulmonary vascular abnormalities in human lung diseases
P50HL-19156-02 0002 Pulmonary SCOR-Chronic diseases of airways - Early detection of emphysema and chronic airway obstruction (human, dog)
P50HL-19156-02 0003 Pulmonary SCOR--Chronic diseases of airways - Powdered tantalum to study airway morphology and mucociliary clearance (human)
P50HL-19171-02 0005 Pulmonary SCOR--Lung injury by childhood infections - Chronic respiratory disease of children in North Carolina
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
** P01HL-19717-02 0046 Response of the lung to injury - Bioengineering section
R01HL-20351-02 A self-calibrating in vivo blood gas monitor (dogs, infants)
R01HL-20815-02 Validation of indirect tests of small airways function (human, dogs, ponies)
R01HL-20835-02 Signal analysis of turbulence study in blood
M R01HL-20895-03 Cineangiographic studies of cardiovascular system
R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
R01HL-20895-03 0002 Cineangiographic studies of cardiovascular system - Coronary disease--Regional myocardial blood flow (human, dog)
R01HL-20895-03 0003 Cineangiographic studies of cardiovascular system - Densitometry in coronary stenosis (human)
R01HL-20895-03 0004 Cineangiographic studies of cardiovascular system - Cineangiography--Coronary lesions and ventricular function (human)
R01HL-20895-03 0005 Cineangiographic studies of cardiovascular system - Computerized axial tomography--Cardiac wall motion and infarction (dogs)
R01HL-20895-03 0006 Cineangiographic studies of cardiovascular system - Cardiomyopathy--Hemodynamic, radiologic, morphologic abnormalities (dog, rabbit)
P50HL-21006-02 0005 Specialized center of research in arteriosclerosis - Regional myocardial perfusion in patient with coronary artery disease (also dogs)
R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
R01HL-21518-01 Improvement in regional ventilation-perfusion resolution (human)
** R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
** R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
** R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
R01HL-21706-02 Nuclear magnetic resonance and myocardial ischemia (rats)
R01HL-21707-01 Quantification of infarct size by emission tomography (human, dogs)
R01HL-21710-01 Electrocardiographic methods of quantifying infarct size (human, dogs)
R01HL-21719-01 Computed cardiac tomography in infarct sizing (dogs, human)
** R01HL-21750-02 Electrocardiographic quantification of infarct size (dogs, human)
M R01HL-21751-02 Thallium and antimyosin in ischemia and infarction
** R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies--Ischemia and infarction
** R01HL-21793-02 Functional infarct size by gated radioangiography (human, dogs)
** R01HL-22413-01 Enhanced detection of bubbles in Doppler flow signals (human)
R23HL-22787-01 Cardiac volume by biplane echocardiography (human)
** R01HL-22852-01 Diagnostic techniques in venous thromboembolism (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-22893-01 Evaluating arterial disease by velocity-wave analysis (dogs, human)
** R01HL-22952-01 Validation of quantitative coronary arteriography (dogs)
R01HL-22976-01 Nonuniform ventilation and diffusing capacity (human)
** N01HR-32900-09 Pilot study to standardize the measurement of 'closing volume' (human)
** N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)
** N01HR-32903-11 Pilot study to standardize the measurement of 'closing volume' (human)
** N01HR-62901-04 Measure pulmonary function in infants and children (also dogs, rabbits)
N01HR-62920-02 Noninvasive diagnosis of pulmonary hypertension (dog, human)
** N01HR-72920-01 Identify and quantify cystic fibrosis factors (human)
N01HV-22917-11 Lipid research clinic (human)

DIAGNOSTIC QUALITY-STANDARDS, DIAGNOSTIC PROCEDURES SAFETY

SEE ALSO BIOMEDICAL ENGINEERING, MEDICAL EQUIPMENT SAFETY
SEE ALSO DIAGNOSTIC TESTS, NON-INVASIVE*
R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
R01HL-14645-07 Blood flow measurement by ultrasonic catheter tip methods (human, dogs)
R01HL-18805-04 0003 Sudden cardiac death and the onset of myocardial infarction - Prediction from clinical and laboratory assessments (human)
P50HL-19156-02 0003 Pulmonary SCOR–Chronic diseases of airways - Powdered tantalum to study airway morphology and mucociliary clearance (human)
R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies–Ischemia and infarction
** P60HL-23282-01 0001 Comprehensive hospital/community sickle cell center - Fetoscopy for intrauterine diagnosis of hemoglobinopathy (human, monkeys)

DIAGNOSTIC SERVICES

** P60HL-15160-07 0012 Center for sickle cell disease - Core laboratories

DIAGNOSTIC SERVICES, MASS SCREENING

N01HB-62908-07 Maternal to infant transmission of hepatitis B (human)
P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
P01HL-09011-15 0018 A research and resource program in blood - Hepatitis B in normal populations--Epidemiology, risk factors and transmission
** R01HL-11901-12 0009 Effects of metabolic surgery on the hyperlipidemias - Cholesterol cord blood and family management program
R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
P50HL-14230-07 0088 A/S SCOR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
** P60HL-15157-07 0001 Comprehensive center for sickle cell disease - Screening program (human)
M P60HL-15160-07 Center for sickle cell disease
P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies–Dimensions, effectiveness
P60HL-15160-07 0013 Center for sickle cell disease - Immunochemical diagnosis of hemoglobinopathies (infants)
** P60HL-15160-07 0017 Center for sickle cell disease - Demonstration--Education, screening, counseling, patient care
P60HL-15162-07 0010 Comprehensive sickle cell center - Core program--Community outreach and education program
** P60HL-15162-07 0011 Comprehensive sickle cell center - Core program--Genetic counseling and diagnostic screening
P60HL-15162-07 0018 Comprehensive sickle cell center - Biochemical and genetic studies of sickle cell anemia (human)
** P60HL-15168-07 0001 Comprehensive sickle cell disease center - Screening program (human)
** P60HL-15168-07 0010 Comprehensive sickle cell disease center - Sickle cell center project (children)
** P60HL-15169-05 0019 Support for center for sickle cell disease - Central screening and reference laboratory
P60HL-15169-05 0021 Support for center for sickle cell disease - Multidisciplinary module system for education, screening and counseling
** P60HL-15170-05 0002 Support for center for sickle cell anemia - Adult services--Testing programs
** P60HL-15170-05 0007 Support for center for sickle cell anemia - Pediatric services--Screening program
** P01HL-15265-05 0003 Program on surgical control of the hyperlipidemias - Central lipid laboratory
** P01HL-15265-05 0013 Program on surgical control of the hyperlipidemias - Clinical center - Minnesota
** P01HL-15265-05 0014 Program on surgical control of the hyperlipidemias - Arkansas clinical center
R01HL-15808-06 Role of angiotensinogen in hypertension and stroke (human, rabbits)
** P60HL-15996-06 0007 Cincinnati comprehensive sickle cell center - Screening and counseling
** P60HL-15999-05 0004 Miami comprehensive sickle cell center - Education, screening and counseling
P60HL-16008-06 0001 Wayne State University comprehensive sickle cell center - Patient care system (children, adults)
** P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling
P60HL-17265-04 0001 Community blood resource center support - Demonstration and evaluation
R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)
** R01HL-17465-04 Beta-thalassemia screening and genetic counseling
** P50HL-18323-04 0035 SCOR hypertension center - Control of high blood pressure at the work site
R01HL-18456-03 Cardiovascular follow-up of hypertensive adolescents
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-18850-03 Classification code for Frank orthogonal ECG
** R01HL-18977-03 Non-invasive diagnosis of peripheral arterial disease (human, dogs)
P50HL-19171-02 0005 Pulmonary SCOR--Lung injury by childhood infections - Chronic respiratory disease of children in North Carolina
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
P01HL-19717-02 0039 Response of the lung to injury - Lung scanning in alveolitis and asbestolic interstitial pneumonia (human, animal)
P01HL-19717-02 0046 Response of the lung to injury - Bioengineering section
R01HL-20751-01 High speed liquid chromatography of hemoglobins (human)
P60HL-20985-01 0009 Northern California sickle cell center - Patient services (children, adults)
P60HL-20985-01 0010 Northern California sickle cell center - Prenatal diagnosis of sickle cell anemia
R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
R01HL-22212-01 Alameda county high blood pressure control program
R01HL-22380-01 Detroit hypertension control program
R01HL-22604-01 Non-invasive system for arteriosclerosis studies (human)
R01HL-22802-01 A rural mining community hypertension control project (human)
** R01HL-22821-01 A routine screening analysis for myoglobinemia
R01HL-22838-01 Post-transfusion hepatitis in newborn children
M P60HL-23282-01 Comprehensive hospital/community sickle cell center
** P60HL-23282-01 9001 Comprehensive hospital/community sickle cell center - Core--Institutionalization of education, screening and counseling
P60HL-23282-01 9002 Comprehensive hospital/community sickle cell center - Core–Model sickle cell service for neighborhood health centers
N01HR-32900-09 Pilot study to standardize the measurement of 'closing volume' (human)
N01HV-12434-11 Therapy for hypertension in the general population
N01HV-12435-15 Therapy for hypertension in the general population (human)
** N01HV-12436-15 Hypertension therapy in the general population (human)
N01HV-12440-14 Therapy for hypertension in the general population (human)
** N01HV-12442-14 Therapy for hypertension in the general population (human)
N01HV-22917-11 Lipid research clinic (human)
N01HV-22938-11 Therapy for hypertension in general population
N01HV-22939-12 Hypertension detection and follow-up program center
N01HV-22945-11 Cooperative hypertension detection and follow-up study (human)
N01HV-22971-07 Prevention of coronary heart disease (human)
N01HV-22976-07 Multiple risk factor intervention trial, prevention of coronary heart disease
N01HV-22977-08 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22979-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22981-10 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33101-06 Development and conduct of a multiple risk factor intervention trial (human)
N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-33108-04 Prevention of coronary heart disease (human)
N01HV-33109-04 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33110-04 Prevention of coronary heart disease (human)
N01HV-42929-08 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42930-09 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42931-07 Risk factor intervention trail for the prevention of CHD (men)
N01HV-42932-05 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42933-09 Multiple risk factors in coronary heart disease (human)
** N01HV-82915-01 Therapy for hypertension in the general population (human)

DIAGNOSIS, DIAGNOSTIC TESTS*

SEE ALSO BILIARY TRACT DISORDERS DIAGNOSIS (INCL EXAMS)*
SEE ALSO BLOOD AND RE DISORDERS DIAGNOSIS (INCL EXAMS)*
SEE ALSO BLOOD COAGULATION TESTS*
SEE ALSO BLOOD (HEMATOLOGIC) TESTS*
SEE ALSO CARBOHYDRATE BALANCE, GLUCOSE TOLERANCE
SEE ALSO CARDIOVASCULAR DISORDERS DIAGNOSIS*
SEE ALSO CEREBROVASCULAR DISORDERS DIAGNOSIS (INCL EXAMS)*
SEE ALSO CHEMISTRY, CLINICAL
SEE ALSO COMMUNICABLE DISEASES DIAGNOSIS*
SEE ALSO DIAGNOSTIC QUALITY-STANDARDS, DIAGNOSTIC PROCEDURES SAFETY
SEE ALSO ENDOCRINOLOGY, ENDOCRINE DISORDERS DIAGNOSIS
SEE ALSO EYE DISORDERS DIAGNOSIS (INCL EXAMS)*
SEE ALSO GASTROINTESTINAL VISUALIZATION*
SEE ALSO GENETIC DISORDERS DIAGNOSIS*
SEE ALSO HEART DISORDERS DIAGNOSIS (INCL EXAMS)*
SEE ALSO HYPERSENSITIVITY TESTS
SEE ALSO IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOLOGICAL TESTS*
SEE ALSO IMMUNOPATHOLOGY, DIAGNOSIS*
SEE ALSO KIDNEY DISORDERS DIAGNOSIS (INCL EXAMS)*
SEE ALSO KIDNEY VISUALIZATION*
SEE ALSO LIVER DISORDERS DIAGNOSIS (INCL EXAMS)*
SEE ALSO METABOLIC DISORDERS DIAGNOSIS*
SEE ALSO METABOLIC DISORDERS INBORN DIAGNOSIS*
SEE ALSO NEOPLASMS DIAGNOSIS
SEE ALSO NEOPLASMS RELATED INTEREST, SARCOIDOSIS, KVEIM FACTOR
SEE ALSO NERVOUS DISORDERS DIAGNOSIS (INCL EXAMS)*
SEE ALSO NEUROMOTOR DISORDERS DIAGNOSIS (INCL EXAMS)*
SEE ALSO NEUROPSYCHOLOGICAL TESTS*
SEE ALSO PSYCHOLOGICAL TESTS (GENERAL)*
SEE ALSO RADIOAUTOGRAPHY*
SEE ALSO RADIODIAGNOSIS AND RADIODIAGNOSTIC METHODS
SEE ALSO RADIOGRAPHY*
SEE ALSO RADIOISOTOPE (NUCLEAR) MEDICINE, STABLE (LABELED) ISOTOPE DIAGNOSIS
SEE ALSO RESPIRATORY DISORDERS DIAGNOSIS*
SEE ALSO RESPIRATORY VISUALIZATION*
SEE ALSO SKELETAL DISORDERS DIAGNOSIS (INCL EXAMS)*
SEE ALSO THYROID FUNCTION
N01HI-02216-10 To develop biological flow NMR concept (human, mammals non human)
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
R01HL-13917-20 Secretion and effects of adrenal hormones (human, rabbits, sheep)
R01HL-16233-05 Molecular cardiology of MOP-induced left ventricular failure (dogs)
** R01HL-18561-03 Radioimmunoassay of angiotensinogen (human)
R01HL-20859-02 Beta adrenergic catecholamine receptor
N01HV-53010-03 NAS-NRC twin registry

DIAGNOSTIC TESTS, BIOPSY*

SEE ALSO DIAGNOSTIC TESTS, CYTODIAGNOSIS*
R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
** P01HL-06312-17 0039 Surgical cardiology - Cardiac transplantation–Biopsy correlates of rejection
P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
** P01HL-13108-09 0003 Clinical heart transplantation - Endomyocardial biopsy pathology
P01HL-17417-05 0003 Experimental lung transplantation - Methods for detecting lung allograft rejection (dogs)
P50HL-17651-04 0036 Ischemic heart disease specialized center of research - Core facilities--Cardiovascular pathology (human, dog)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-17813-04 0002 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease-Ultrastructural abnormalities (human)
** P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)

DIAGNOSTIC TESTS, BIOPSY, MICROPUNCTURE*

P01HL-06285-18 0197 Cardiovascular-respiratory physiology and biochemistry - Micropertusion and micropuncture of renal tubules (hamsters, desert rats)
P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)
R01HL-14133-08 Intrarenal regulation of sodium reabsorption (dogs, hamsters, rats)
P50HL-14159-08 0008 Specialized center of research in hypertension - Renal function and sodium metabolism in hypertension (rats, human, rabbits)

DIAGNOSTIC TESTS, CYTODIAGNOSIS*

R01HL-13885-08 0009 Cystic fibrosis and pulmonary disease - Respiratory mucus glycoproteins (human, rabbits)
R01HL-18878-03 Familial hypercholesteremia-Studies of fibroblasts (human)

DIAGNOSTIC TESTS, CYTODIAGNOSIS, CILIOINHIBITORY TEST*

P50HL-19157-02 0001 Studies in cystic fibrosis and bronchiolitis - Laboratory core unit
P50HL-19157-02 0007 Studies in cystic fibrosis and bronchiolitis - Analysis of cystic fibrosis factors (human)

DIAGNOSTIC TESTS, EARLY DIAGNOSIS*

SEE ALSO PREGNANCY, ANTEPARTUM DIAGNOSIS
R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
P01HL-04664-18 0007 Cardiovascular and lung dynamics - Development and application of ultrasound imaging techniques
** P01HL-07293-17 0054 Non-invasive cardiovascular measurements - Detection of arterial occlusive disease (human)
** R01HL-10009-13 Regional lung function in man
R01HL-10160-13 Origins of atherosclerosis (human)
R01HL-12833-09 Genetic and environmental influences on lung disease (human)
** P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
P50HL-14141-05 0002 SCOR for atherosclerosis in childhood - Intrauterine environment of proband group (human)
R01HL-14651-05 Mechanical behavior of left ventricle (dogs, rats)
R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
P01HL-15194-07 0024 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Airflow limitation in COLD (human)
R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
P60HL-15999-05 0004 Miami comprehensive sickle cell center - Education, screening and counseling
P60HL-17269-04 0007 National heart and blood vessel research and demonstration center - Correlative studies of experimental myocardial ischemia (dog)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
P01HL-17417-05 0003 Experimental lung transplantation - Methods for detecting lung allograft rejection (dogs)
R01HL-17543-03 0001 Magnetic tracers for diagnosis of lung disease - Chronic, interstitial lung disease (human, rabbits)
P50HL-18323-04 0035 SCOR hypertension center - Control of high blood pressure at the work site
** P01HL-18576-03 0013 Thrombosis research program project - Early warning and monitoring test systems in thrombotic disease (human)
P01HL-18646-03 0002 Studies basic to heart transplantation - Detection of rejection (dogs)
** P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
R01HL-18873-02 Early radiologic diagnosis of cardiac failure (monkey)
** P50HL-19156-02 0002 Pulmonary SCOR--Chronic diseases of airways - Early detection of emphysema and chronic airway obstruction (human, dog)
M P01HL-19717-02 Response of the lung to injury
P01HL-19717-02 0039 Response of the lung to injury - Lung scanning in alveolitis and asbestolic interstitial pneumonia (human, animal)
P01HL-19717-02 0043 Response of the lung to injury - Asbestosis as a model of usual interstitial pneumonia (human)
** P01HL-19717-02 0044 Response of the lung to injury - Lung sound analysis (human)
** P01HL-19717-02 0045 Response of the lung to injury - Ultrasound studies (human, hamsters)
R01HL-19870-03 Hypertensive progeny-Physical and humoral precursor search
R01HL-19922-03 Childhood determinants of blood pressure
R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
** R01HL-19930-03 A prospective study-Blood pressure in newborn twins
R01HL-19962-03 High blood pressure in young people in Tecumseh
R01HL-20005-03 Factors in blood pressure levels of children
R01HL-20034-03 Hypertension-Psychophysiologic and genetic precursors (human)
R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)
** R01HL-20645-01 Etiology of myocardial infaction (human)
R01HL-20807-02 Detection of familial hypercholesterolemia (human)
R01HL-20847-02 Respiratory neurochemical control (human, goats)
** R23HL-21197-02 Right ventricular contraction and relaxation (dogs)
R01HL-21487-01 Molecular characterization of Glanzmann's thrombasthenia (human)
** P01HL-21584-02 0006 Respiratory mechanics in normal and abnormal states - Respiratory mechanics in health and disease (human, pigs)
R01HL-21846-01 Cardiac failure detection by radiography and optics (monkeys)
R23HL-21917-01 Adrenal steroids in adolescent and adult hypertension
R01HL-22298-02 Origins of hypertension (human)
** R01HL-22723-01 The morphologic basis of airflow obstruction (human)
R01HL-22821-01 A routine screening analysis for myoglobinemia
R18HL-22934-01 Behavorial approaches to adolescent hypertension
R01HL-22976-01 Nonuniform ventilation and diffusing capacity (human)
R01HL-23194-02 Genetics of hypertension and associated variables (human)

DIAGNOSTIC TESTS, ENDOSCOPY*

SEE ALSO RESPIRATORY VISUALIZATION, BRONCHOSCOPY*
** R01HL-13885-08 9003 Cystic fibrosis and pulmonary disease - Fiberoptic bronchoscopy core facility (human, dogs, sheep)
** P60HL-23282-01 0001 Comprehensive hospital/community sickle cell center - Fetoscopy for intrauterine diagnosis of hemoglobinopathy (human, monkeys)

DIAGNOSTIC TESTS, NON-INVASIVE*

R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
R01HL-01486-23 Quantitative study of T-wave mechanisms (human, rabbits, dogs, chickens)
R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)
P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
P01HL-06285-18 0156 Cardiovascular-respiratory physiology and biochemistry - Myocardial performance following revascularization (human)
P01HL-06285-18 0157 Cardiovascular-respiratory physiology and biochemistry - Left ventricle outflow impedance analysis (human)
P01HL-06296-18 0003 Cardiovascular and pulmonary adaptation to stress - Human exercise studies (human, dogs)
M P01HL-06308-18 Mechanisms and therapy of circulatory disease
P01HL-06308-18 0010 Mechanisms and therapy of circulatory disease - Ventricular arrhythmias during exercise to CHD and myocardial ischemia (human)
P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
P01HL-06308-18 0012 Mechanisms and therapy of circulatory disease - Echocardiographic evaluation of hemodynamics of arrhythmia (human)
P01HL-06308-18 0042 Mechanisms and therapy of circulatory disease - Echocardiographic assessment of arrhythmias--Myocardial tissue type (human, dogs)
P01HL-06308-18 0044 Mechanisms and therapy of circulatory disease - Echocardiography to determine site of ectopic impulse formation (human, dogs)
R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
M P01HL-07293-17 Non-invasive cardiovascular measurements
P01HL-07293-17 0041 Non-invasive cardiovascular measurements - Ventricular volumes and dimensions (human)
P01HL-07293-17 0043 Non-invasive cardiovascular measurements - ECHO-Doppler instrumentation for cardiac measurements (human)
P01HL-07293-17 0044 Non-invasive cardiovascular measurements - Cardiac duplex scanner
P01HL-07293-17 0045 Non-invasive cardiovascular measurements - Cardiac scanner transducer position locating systems (human)
P01HL-07293-17 0046 Non-invasive cardiovascular measurements - Cardiac scanner signal processors
P01HL-07293-17 0047 Non-invasive cardiovascular measurements - Cardiac scanner system software
P01HL-07293-17 0048 Non-invasive cardiovascular measurements - Cardiac scanner recording and display systems component
P01HL-07293-17 0049 Non-invasive cardiovascular measurements - Cardiac scanner engineering evaluation and error analysis
P01HL-07293-17 0050 Non-invasive cardiovascular measurements - Cardiac dimensions measurements engineering evaluation and error analysis
P01HL-07293-17 0051 Non-invasive cardiovascular measurements - Physiologic evaluation of duplex scanner (dogs)
P01HL-07293-17 00[illegible] [illegible]sive cardiovascular measurements - Clinical evaluation of the duplex scanner (human)
** P01HL-07293-17 0053 Non-invasive cardiovascular measurements - Clinical evaluation of cardiac dimensions using the duplex scanner (human)
P01HL-07293-17 0054 Non-invasive cardiovascular measurements - Detection of arterial occlusive disease (human)
P01HL-07293-17 0055 Non-invasive cardiovascular measurements - Peripheral vascular transducer position locating system
P01HL-07293-17 0056 Non-invasive cardiovascular measurements - Peripheral vascular system software
P01HL-07293-17 0057 Non-invasive cardiovascular measurements - Peripheral vascular scanner engineering evaluation and error analysis (human)
P01HL-07293-17 0058 Non-invasive cardiovascular measurements - Peripheral duplex scanner physiologic evaluation
P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
P01HL-07896-15 0045 Environmental biomedical research program - Extravascular lung water dynamics in pulmonary oxygen toxicity (human, baboons)
R01HL-09609-11 Lung volume and breathing mechanics during anesthesia (human)
R01HL-10009-13 Regional lung function in man
P01HL-10342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
R01HL-10417-12 Multiple systems in electrocardiography (human)
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
** P01HL-11310-12 0091 Mechanisms of cardiovascular disease - Noninvasive techniques in cardiovascular diagnosis (human)
M P01HL-12373-10 Cardiopulmonary physiology and pathophysiology
P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Determinants of performance of the whole heart (dogs)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
R01HL-12715-10 Dynamic cardiovascular measurement using ultrasound
P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
** P01HL-13108-09 0024 Clinical heart transplantation - Response of denervated heart to stress--Noninvasive (human)
P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
P01HL-14580-07 0002 Program project in respiratory mechanics - Airway aerodynamics (human, dogs)
R01HL-14688-05 Myocardial assessment by inverse electrocardiography (monkey)
R01HL-14785-07 Ultrasonic scattering for tissue characterization (dogs, cattle, human)
** R01HL-15016-07 New concepts in cardiac ultrasound technology (human)
** P60HL-15158-07 0025 Comprehensive sickle cell center - Cardiovascular evaluation of children with sickle cell disease (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
R01HL-16325-03 Breathing patterns in man
P01HL-16387-04 0005 The blood vessel and thrombogenesis - Fluid engineering considerations in thrombogenesis
R01HL-16553-05 Diagnosis of myocardial infarction by radioisotopes (mice, rats, goats)
R01HL-16784-03 Lung tissue and water volume (human, dogs)
R01HL-16830-05 Non-invasive determination of aortic blood velocities (human)
R01HL-16901-05 Multipolar linkage between heart geometry and surface (human, dogs)
R01HL-16908-04 Myocardial function, risk factors and future CHD (men)
R01HL-16909-04 Myocardial function, risk factors and future CHD (men)
** P60HL-17269-04 0027 National heart and blood vessel research and demonstration center - Non-invasive evaluation of cardiac function--Ischemic heart disease (human, dog)
P01HL-17421-05 0007 Regulation and exchange in the microcirculation - Core facilities--Fluorometric measurement methods for microcirculation
R01HL-17513-04 Role of PF-4 in detecting and promoting thrombosis (human, primates)
** R01HL-17543-03 0002 Magnetic tracers for diagnosis of lung disease - Magnetite as an index of asbestos exposure (human)
** R01HL-17543-03 0003 Magnetic tracers for diagnosis of lung disease - Occupationally accumulated magnetite for diagnosis of lung disease (human)
R01HL-17578-04 Exercise performance in children with heart disease
R01HL-17604-03 Wearable blood pressure and ECG recording system
P50HL-17646-04 0009 Study of ischemic heart disease - Regional metabolic derangements indicating ischemia (rabbit, dog, human)
P50HL-17646-04 0010 Study of ischemic heart disease - Compliance in ischemic myocardium--Altered cardiac performance (human, dogs)
P50HL-17648-04 0004 Study of ischemic heart disease - Radionuclide imaging studies (human, pig)
P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
** P50HL-17651-04 0048 Ischemic heart disease specialized center of research - Non-invasive detection of ischemic heart disease
P50HL-17655-04 0006 Study of ischemic heart disease - Evaluation of coronary artery bypass graft surgery (human)
P50HL-17655-04 0011 Study of ischemic heart disease - Core facility--Cardiovascular nuclear medicine (human, dog)
P50HL-17670-04 0014 Study of ischemic heart disease - Real time ultrasound imaging in ischemic heart disease (human, dog)
P50HL-17670-04 0015 Study of ischemic heart disease - Radionuclide studies of myocardial ischemia (human)
P50HL-17670-04 0020 Study of ischemic heart disease - Radionuclide evaluation of coronary artery disease (human, dog)
P50HL-17682-04 0003 Study of ischemic heart disease - Effects of myocardial revascularization in man
P50HL-17682-04 0008 Study of ischemic heart disease - Clinical core unit
P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
R01HL-17826-04 Oxygen delivery to tissue (rat, dog)
R01HL-17931-04 Normalized body surface potential maps (children)
M R01HL-17993-04 Ventricular dynamics from surgically inserted markers
R01HL-17993-04 0001 Ventricular dynamics from surgically inserted markers - Effects of aortocoronary bypass graft surgery on ventricular function (human)
R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
R01HL-17993-04 0005 Ventricular dynamics from surgically inserted markers - Cardiac dimensions and dynamic after mitral, aortic valve surgery (human)
R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
R01HL-18492-03 Measurement of regional coronary flow reserve (human, dogs)
** P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
** R01HL-18710-02 Non-invasive reflection oximetry in peripheral tissue (dogs)
R01HL-18805-04 0005 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Radionuclide studies (human)
R01HL-18873-02 Early radiologic diagnosis of cardiac failure (monkey)
** R01HL-18977-03 Non-invasive diagnosis of peripheral arterial disease (human, dogs)
R01HL-19019-03 Accurate transcutaneous Doppler blood flow monitoring
** R01HL-19038-02 Plethysmographic evaluation of carotid blood flow (human, rabbits, dogs)
R01HL-19118-03 Measurement of airways mechanics (human, dog)
R01HL-19135-04 Heterogeneity of regional myocardial blood flow (dogs)
P50HL-19155-02 0002 Pathophysiology of pulmonary edema - Non-invasive measurement of protein turnover in human lung (also sheep)
** P50HL-19187-02 0009 Pediatric pulmonary SCOR--Hyaline membrane disease - Non-invasive measurement and monitoring of arterial oxygen tension (dogs, sheep)
P50HL-19190-02 0009 Pulmonary SCOR--Pathophysiology, management of IRDS - Developing non-invasive neonatal pulmonary monitoring systems (rabbit, human)
R01HL-19246-03 Regression of cardiac hypertrophy--Myocardial and renal (human)
R01HL-19341-03 Ultrasonic detection of the atherosclerotic plaque
R01HL-19352-03 Respiratory heat and water loss in neonates
P50HL-19362-02 0011 A/S SCOR--Atherosclerosis in nonhuman primates - Chronic hypertension induced by operant conditioning techniques (baboon)
R01HL-19391-03 Dynamic determinants of left ventricular filling (dogs)
R01HL-19406-03 Grading of atherosclerosis by CW doppler ultrasound (human, dogs)
R01HL-19425-03 Cardiac function in hypertrophy (dog)
R01HL-19486-03 Dipole moment measurement of cardiac mass (rabbits, pigs)
R01HL-19537-03 Detection of myocardial injury with ultrasound (dogs)
P01HL-19717-02 0044 Response of the lung to injury - Lung sound analysis (human)
P01HL-19717-02 0045 Response of the lung to injury - Ultrasound studies (human, hamsters)
R01HL-19768-02 Recording and analysis of low levels cardiac signals (human, dogs)
R01HL-19973-01 Non-invasive sickled cell monitor development (human)
R01HL-20110-02 Microwave methods of lung water measurement (dogs, phantom models)
** R01HL-20328-01 Noninvasive assessment of autonomic cardiac control (dogs)
R01HL-20347-02 Bolus-response measurement of lung function (human)
R01HL-20373-02 Cardiovascular aging in young men and women
R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
R01HL-20815-02 Validation of indirect tests of small airways function (human, dogs, ponies)
R01HL-20898-02 Ultrasonic evaluation in direct arterial surgery (models, cattle, human)
P50HL-21006-02 0005 Specialized center of research in arteriosclerosis - Regional myocardial perfusion in patient with coronary artery disease (also dogs)
R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
R01HL-21273-02 Fibrinogen labeling with radiometals
R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
R01HL-21523-01 Hemodynamic effects of dietary sodium in man
R01HL-21684-02 0001 Radionuclide infarct sizing and therapy evaluation - Evaluating preservation of ischemic myocardium by radioisotope methods (dog)
R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
R01HL-21697-01 Myocardium infarct sizing by 82Rb emission tomography (dogs, human)
R01HL-21710-01 Electrocardiographic methods of quantifying infarct size (human, dogs)
R01HL-21719-01 Computed cardiac tomography in infarct sizing (dogs, human)
R01HL-21793-02 Functional infarct size by gated radioangiography (human, dogs)
R01HL-21846-01 Cardiac failure detection by radiography and optics (monkeys)
R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)
R01HL-22255-01 The etiology/prevalence of peripheral arterial disease (human)
R01HL-22296-01 Autonomic mechanisms in man
** R01HL-22321-01 Cardiac output from the pneumocardiogram (dogs)
** R01HL-22326-01 Noninvasive measurement of cardiac output (dogs)
R01HL-22506-01 Hemodynamics of the clinical hypertensions
R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)
** R01HL-22604-01 Non-invasive system for arteriosclerosis studies (human)
R01HL-22750-01 Digoxin in heart failure with sinus rhythm (human)
R23HL-22787-01 Cardiac volume by biplane echocardiography (human)
R01HL-22809-01 Coronary-prone behavior and cardiovascular reactivity (human)
R01HL-22844-01 Phrenic nerve pacing--Noninvasive diaphragm analysis (human, dogs)
** R01HL-22852-01 Diagnostic techniques in venous thromboembolism (human)
** R01HL-22854-01 Non-invasive blood pressure measurement (rats)
R18HL-22934-01 Behavorial approaches to adolescent hypertension
R01HL-22982-01 Multicenter postcoronary risk stratification program (human)
R01HL-23201-01 Mechanisms of hypertension (human, rats)
N01HR-62920-02 Noninvasive diagnosis of pulmonary hypertension (dog, human)
N01HV-52966-01 Development and evaluation of an ultrasonic imaging system (swine)
** N01HV-72924-04 Non-invasive detection of atherosclerotic lesions (human, animals)
** N01HV-72925-04 Non-invasive detection of atherosclerotic lesions (human, monkeys, dogs)
N01HV-72926-04 Ultrasonic imaging development
N01HV-72927-00 Systems for non-invasive detection of atherosclerotic lesions (human)
N01HV-72929-01 Improved detection of atherosclerosis (human, dogs)
** N01HV-72931-02 Non-invasive detection of atherosclerotic lesions (human, dogs)
** N01HV-72932-00 Non-invasive detection of atherosclerotic lesions (human, phantoms)

DIAGNOSTIC TESTS, RAPID DIAGNOSIS*

R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
** P01HL-13108-09 0012 Clinical heart transplantation - Human T cell sheep erythrocyte receptors
P01HL-15194-07 0025 Pathophysiology of cardiopulmonary dysfunction - Myoglobinemia as an index of myocardial ischemia and infarction
P01HL-17417-05 0003 Experimental lung transplantation - Methods for detecting lung allograft rejection (dogs)
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
** R01HL-19083-02 Rapid specific micro measurement of blood cholesterol
** R01HL-20751-01 High speed liquid chromatography of hemoglobins (human)

DIALYSIS (BLOOD)

SEE BLOOD TREATMENT, HEMODIALYSIS

DIAMINE OXIDASE

SEE OXIDOREDUCTASES, AMINE OXIDASE (PYRIDOXAL-CONTAINING)

DIAMINES

SEE AMINES, DIAMINES

DIAMINO ACIDS, ARGININE

P50HL-14237-07 0001 Support for arteriosclerosis center - Role of apolipoproteins in lipoprotein catabolism (human, rats)
R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
P01HL-22633-01 0004 Cellular and molecular biology of lipoprotein metabolism - Lipid-lipid and lipid-protein interactions in serum lipoproteins (human, rats)

DIAMINO ACIDS, LYSINE

** R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)
R01HL-13909-27 Physiochemistry and immunology of macromolecules
P01HL-15195-04 0001 Program project in biological materials - Design and synthesis
R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
P01HL-19717-02 0001 Response of the lung to injury - Lung elastic tissue (animals)
P01HL-19717-02 0004 Response of the lung to injury - Regulatory and physical-chemical properties of lung lysyl oxidase (animals)
R01HL-20074-02 Structure and function of amidinated human hemoglobin

DIAMINO ACIDS, LYSINE, HYDROXYLYSINE

R01HL-18593-03 Characterization of heart valve collagen (human, pig)

DIAMOX

SEE SULFONAMIDES, ACETAZOLAMIDE

DIAPHRAGM

SEE BODY CAVITIES, DIAPHRAGM

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

DIAPHRAGMATIC HERNIA
SEE BODY CAVITY DISORDERS, DIAPHRAGMATIC HERNIA

DIASTOLIC AUGMENTATION
SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, DIASTOLIC AUGMENTATION

DIAZEPAM
SEE AZEPINES, DIAZEPAM

DIAZEPINES
SEE AZEPINES, DIAZEPINES

DIAZINODIAZINES, DIPYRIDAMOLE
P01HL-07293-17 0058 Non-invasive cardiovascular measurements - Peripheral duplex scanner physiologic evaluation
** P01HL-07896-15 0057 Environmental biomedical research program - Effects of dipyridamole and aspirin on decompression thrombocytopenia (human)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)
P01HL-13738-08 0003 Cardiac assist devices and artificial hearts - Pathophysiological effects of the artificial heart (calves)
P50HL-14217-08 0054 Specialized center of research in thrombosis - Coagulation section--Platelet aggregation (human, pig, rabbit, dog)
R01HL-16292-05 0010 Surgery and non-obstructive coronary insufficiency - Effects of exercise on flow distribution (dogs)
R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)
P01HL-18576-03 0001 Thrombosis research program project - Platelet damage from physical forces and artificial surfaces (human)
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)
R01HL-19001-03 Atherosclerosis in bleeder and drug treated subjects (pigs)
R01HL-19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
R01HL-19937-02 Vasodilators in experimental myocardial infarction (dogs)
R01HL-20337-02 Thromboembolic diseases (human)
R01HL-21533-02 Platelet inhibitor drug in coronary surgery (human)
R01HL-22005-01 Intermittent retroperfusion of ischemic myocardium (dogs)
P01HL-22163-01 0003 Surface thrombogenesis--Mechanisms and prevention - In vivo mechanisms of biomaterial thrombogenesis and its prevention (baboons)
R01HL-22445-01 Platelet inhibitors--Effect on coronary bypass grafts (dogs)

DIAZOLODIAZINES, PYRAZOLOPYRIMIDINES
P01HL-20948-02 0003 Molecular basis of cholesterol metabolism - LDL pathway in vivo (human, rats, guinea pigs)

DIAZOLODIAZINES, PYRAZOLOPYRIMIDINES, ALLOPURINOL
R01HL-20352-02 Defenses of lung cells against oxygen toxicity (human, animals)

DIAZOXIDE
SEE THIADIAZINES, DIAZOXIDE

DIBENAMINE (HYDROCHLORIDE)
SEE PHENYLALKYLAMINES, BENZYLAMINES, DIBENAMINE

DIBENZANTHRENES
SEE CYCLICS, CARBOPOLYCYCLICS, BENZANTHRACENES

DIBENZYLINE
SEE PHENYLALKYLAMINES, BENZYLAMINES, PHENOXYBENZAMINE

DICARBOXYLIC ACIDS, MALIC ACID
SEE ALSO DXIDOREDUCTASES, MALATE DEHYDROGENASE
P50HL-17667-04 0012 Study of ischemic heart disease - Biochemistry of normal and ischemic heart--Glycolysis (rats)

DICARBOXYLIC ACIDS, OXALACETATE
P01HL-16251-06 0002 Membrane-bound enzymes in heart and other tissues - Structural basis of regulation of cardiac succinate dehydrogenase

DICARBOXYLIC ACIDS, SUCCINIC ACID
SEE ALSO DXIDOREDUCTASES, SUCCINATE:(ACCEPTOR) OXIDOREDUCTASE
R01HL-21381-02 Amino acid metabolism in normal and hypoxic myocardium (rabbits)
R01HL-23128-01 Cardiac contractility-Ischemia and hypoxia (rabbits, rats)

DICARBOXYLIC ALDEHYDES, MALONALDEHYDE
R01HL-18163-04 Red cell membrane effects due to oxidizing agents

DICARBOXYLIC AMINO ACIDS, ASPARAGINE
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)

DICARBOXYLIC AMINO ACIDS, ASPARTIC ACID
P50HL-17651-04 0041 Ischemic heart disease specialized center of research - Biochemical indices of ischemic injury (guinea pig)
P50HL-17667-04 0012 Study of ischemic heart disease - Biochemistry of normal and ischemic heart--Glycolysis (rats)

DICARBOXYLIC AMINO ACIDS, GLUTAMATES
SEE ALSO FOLIC ACID
SEE ALSO PEPTIDES, GLUTATHIONE
P01HL-11414-11 0033 Thrombosis and atherosclerosis program - Human coumarin-induced prothrombin
P01HL-11414-11 0035 Thrombosis and atherosclerosis program - Mechanism of action of vitamin K (rats)
P01HL-15195-04 0001 Program project in biological materials - Design and synthesis
R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
P01HL-16878-05 0004 Control of ventilation in health and disease - Neurotransmitters in the respiratory system (cats)
P50HL-17651-04 0041 Ischemic heart disease specialized center of research - Biochemical indices of ischemic injury (guinea pig)
** R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
R01HL-20577-03 The mechanism of action of vitamin K
R01HL-20764-02 Elastin and calcification in pulmonary and vascular disease (human, mammals)
R01HL-21105-02 Organ specific drugs--Cardiovascular and renal effects (dogs)
R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)

DICARBOXYLIC AMINO ACIDS, GLUTAMINE
P01HL-15195-04 0001 Program project in biological materials - Design and synthesis
P50HL-17651-04 0041 Ischemic heart disease specialized center of research - Biochemical indices of ischemic injury (guinea pig)
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)

DICHLOROACETATE
SEE HALO FATTY ACIDS, CHLORO FATTY ACIDS, DICHLOROACETATE

2,3-DICHLOROAMYLENEPHENOXYACETIC ACID
SEE PHENOXYACETIC ACIDS, 2,3-DICHLORO-4-(2-METHYLBUTYL)PHENOXYACETIC ACID

DICHLOROETHYLENE
SEE HALOOLEFINS, VINYLEDENE CHLORIDE

2,3-DICHLORO-4-(2-METHYLBUTYL)PHENOXYACETIC ACID
SEE PHENOXYACETIC ACIDS, 2,3-DICHLORO-4-(2-METHYLBUTYL)PHENOXYACETIC ACID

DICHROISM, CIRCULAR
SEE OPTICS, DICHROISM CIRCULAR*

DICHROISM, CIRCULAR MAGNETIC
SEE OPTICS, DICHROISM CIRCULAR MAGNETIC*

DICHROMOGRAPHY (X-RAY SPECTROMETRY)
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, X-RAY*

DIELECTRIC CHARGES IN TRANSPORT ENERGETICS
SEE BIOLOGICAL TRANSPORT, TRANSPORT ENERGETICS

DIELECTRIC PROPERTIES
SEE ELECTRICITY-MAGNETISM, DIELECTRIC PROPERTIES

DIELS-ALDER REACTION
SEE CYCLIZATION, DIELS-ALDER REACTION

DIENCEPHALON-PITUITARY SYSTEM (HORMONES)
SEE PITUITARY-DIENCEPHALON (HORMONES)

DIET
SEE NUTRITION, DIET

DIET PATHOGENIC
SEE NUTRITION, DIET PATHOGENIC

DIET SCHEDULE AND ROUTE
SEE NUTRITION, DIET SCHEDULE AND ROUTE

DIET THERAPEUTIC
SEE NUTRITION, DIET THERAPEUTIC

DIETARY AMINO ACID
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY AMINO ACIDS

DIETARY CARBOHYDRATES
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY CARBOHYDRATES

DIETARY CONSTITUENTS
SEE NUTRITION, DIETARY CONSTITUENTS (GENERAL)
SEE NUTRITION, DIETETICS

DIETARY DEFICIENCY
SEE NUTRITIONAL ABNORMALITIES, MALNUTRITION (GENERAL)

DIETARY HABITS AND HYPERTENSION
SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), ENVIRONMENT ASSOCIATED

DIETARY IRON
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY IRON

DIETARY LIPIDS
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY LIPIDS

DIETARY METALS
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY TRACE ELEMENTS AND MINERALS

DIETARY MINERALS
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY TRACE ELEMENTS AND MINERALS

DIETARY NUTRIENTS, GASTROINTESTINAL ABSORPTION
SEE GASTROINTESTINAL FUNCTION, ABSORPTION TRANSPORT, DIETARY NUTRIENTS

DIETARY PROTEINS
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY PROTEINS

DIETARY REQUIREMENTS
SEE NUTRITIONAL REQUIREMENTS

DIETARY RESIDUES-FIBERS
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY RESIDUES-FIBERS

DIETARY SALTS
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY SALTS

DIETARY SUGARS
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY CARBOHYDRATES

DIETARY SUPPLEMENTS
SEE NUTRITIONAL REQUIREMENTS, DIETARY SUPPLEMENTS

DIETARY TRACE ELEMENTS AND MINERALS
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY TRACE ELEMENTS AND MINERALS

DIETETICS
SEE NUTRITION, DIETETICS

DIETHYLSTILBESTROL
SEE STILBENES, DIETHYLSTILBESTROL

DIFFERENTIATION
SEE CELL DIFFERENTIATION
SEE GROWTH AND DEVELOPMENT, HISTOGENESIS

DIFFUSION
SEE BIOLOGICAL TRANSPORT, PASSIVE TRANSPORT, DIFFUSION
SEE PHYSICAL PROPERTIES, DIFFUSION

DIFFUSION HORMONES
SEE NEUROTRANSMITTERS (GENERAL)

DIGESTION
SEE GASTROINTESTINAL FUNCTION, DIGESTION

DIGESTIVE SYSTEM
SEE GASTROINTESTINAL SYSTEM (GENERAL)

DIGITALIS
SEE CARDIAC GLYCOSIDES, DIGITALIS

DIGITOXIGENIN
SEE CARDIAC GLYCOSIDES AGLYCONES, DIGITOXIGENIN

DIGITOXIN
SEE CARDIAC GLYCOSIDES, DIGITOXIN

DIGLYCERIDE PHOSPHOKINASE
SEE PHOSPHOTRANSFERASES, ATP:DIGLYCERIDE PHOSPHOTRANSFERASE

DIGLYCERIDES
SEE LIPIDS, GLYCERIDES, DIGLYCERIDES

DIGOXIGENIN
SEE CARDIAC GLYCOSIDES AGLYCONES, DIGOXIGENIN

DIGOXIN
SEE CARDIAC GLYCOSIDES, DIGOXIN

DIGUGLIELMO SYNDROME
SEE NEOPLASMS OF BLOOD AND RE SYSTEM, LEUKEMIA, ERYTHROLEUKEMIA

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

DIHYDROCHOLESTEROL
SEE CHOLESTANE SERIES, CHOLESTANOL

3A,7A-DIHYDROXY-5B-CHOLANIC ACID
SEE CHOLANATE SERIES, CHENODEOXYCHOLIC ACID

DIHYDROXYPHENYLALANINE
SEE CYCLIC AMINO ACIDS, DOPA

3,4-DIHYDROXYPHENYLETHYLAMINE
SEE PHENYLALKYLAMINES, CATECHOLAMINES, DOPAMINE

DIISOPROPYL FLUOROPHOSPHATE
SEE PHOSPHATES, FLUOROPHOSPHATES, DFP

DILANTIN
SEE IMIDAZOLEDIONES, HYDANTOINS, DIPHENYLHYDANTOIN

DIMERS
SEE MOLECULAR CONDENSATIONS, DIMERS

6,9-DIMETHOXY-1-VERATRYLISOQUINOLINE
SEE QUINOLINES, ISOQUINOLINES, PAPAVERINE

DIMETHYL-3'-AMINO-3'-DEOXYADENOSINE
SEE PURINE NUCLEOSIDES, ADENINE NUCLEOSIDES, DIMETHYL-3'-AMINO-3'-DEOXYADENOSINE

DIMETHYLBENZANTHRACENES
SEE CYCLICS, CARBOPOLYCYCLICS, BENZANTHRACENES

5,6-DIMETHYLBENZIMIDAZOLYL CYANOCOBAMIDE
SEE VITAMIN B12

DIMETHYLSULFOXIDE
SEE SULFOXIDES, DIMETHYL SULFOXIDE

1,3-DIMETHYLXANTHINE
SEE PURINES, XANTHINES, THEOPHYLLINE

DIMORPHISM; POLYMORPHISM (BIOLOGY)
SEE BIOLOGY, POLYMORPHISM

DIMORPHOBIOTISM
SEE BIOLOGY, LIFE CYCLE

2,4-DINITROPHENOL
SEE NITROPHENOLS, 2,4-DINITROPHENOL

DIOLS
SEE ALCOHOLS, DIOLS

DIPEPTIDASES
SEE PROTEASES AND PEPTIDASES, DIPEPTIDASES

DIPHENHYDRAMINE
SEE PHENYLALKOXYALKYLAMINES, DIPHENHYDRAMINE

O-DIPHENOL OXIDASE
SEE OXYGENASES, MONOPHENOL MONOOXYGENASE

P-DIPHENOL OXIDASE
SEE OXYGENASES, MONOPHENOL MONOOXYGENASE

DIPHENYLHYDANTOIN
SEE IMIDAZOLEDIONES, HYDANTOINS, DIPHENYLHYDANTOIN

DIPHOSPHOGLYCERATES
SEE TRIOSE ACIDS, GLYCERIC ACID DIPHOSPHATES

DIPHOSPHONATES
SEE PHOSPHONATES, DIPHOSPHONATES

DIPHOSPHOPYRIDINE NUCLEOTIDE (REDUCED)
SEE PYRIDINE NUCLEOTIDES, NICOTINAMIDE RIBOTIDES, NAD(H2)

DIPHTHERIA TOXIN
SEE IMMUNOLOGY, ANTIGENS BACTERIAL, DIPHTHERIA TOXIN

DIPLOCOCCUS PNEUMONIAE
SEE BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS PNEUMONIAE*

DIPOLE MOMENTS
SEE ELECTRICITY-MAGNETISM, DIPOLE MOMENTS

DIPYRIDAMOLE
SEE DIAZINODIAZINES, DIPYRIDAMOLE

DISABLING DISEASES
SEE DISEASES, DISABLING

DISACCHARIDE (OLIGOSACCHARIDE) INTOLERANCE
SEE METABOLIC DISORDERS INBORN, DISACCHARIDE (OLIGOSACCHARIDE) INTOLERANCE

DISACCHARIDES, SUCROSE
P50HL-19153-02 0005 SCOR--Pulmonary edemas--Etiology, pathogenesis - Lung vascular permeability measured by indicator dilution methods (sheep)

DISCRIMINATION
SEE SENSORY-PERCEPTUAL PROCESSES, DISCRIMINATION

DISEASE CLASSIFICATION
SEE ALSO NEOPLASMS CLASSIFICATION AND STAGING
P01HL-04664-18 0011 Cardiovascular and lung dynamics - Detection of abnormal segments of the human ventricle by measure of asynergy
P01HL-04664-18 0012 Cardiovascular and lung dynamics - Quantitative single plane left ventricular angiography (human)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
** P50HL-14214-07 0033 Newborn lung center for hyaline membrane disease - Statistical modeling, predictive classification in clinical management of HMD
P60HL-15996-06 0005 Cincinnati comprehensive sickle cell center - Factors precipitating crises (human)
P60HL-16008-06 0009 Wayne State University comprehensive sickle cell center - Natural history of sickle cell anemia (human)
** P60HL-17269-04 0004 National heart and blood vessel research and demonstration center - Atherosclerosis--Clinical surgical aspects (human)
P50HL-17648-04 0016 Study of ischemic heart disease - Intraventricular conduction--Effect of pacing on conduction and automaticity
P50HL-17667-04 0029 Study of ischemic heart disease - Computer diagnosis of cardiac arrhythmias after open heart surgery (human)
** P50HL-17670-04 0012 Study of ischemic heart disease - Epidemiology of sudden death (human)
** P50HL-18318-03 0001 Pathogenesis and complications of hypertension - Core clinical program
** P50HL-18323-04 0011 SCOR hypertension center - Endocrine profiling on a selected normal population (human)
** P50HL-18323-04 0043 SCDR hypertension center - Pharmacology--Renin-aldosterone mechanisms in essential hypertension (human)
** P50HL-18323-04 0044 SCDR hypertension center - Angiotensin blockade to identify angiotensin II factor in hypertension (human)
R01HL-18687-03 Pathophysiology of genetic hypertriglycerinemias (human)
R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
R01HL-18794-04 Prospective studies of conduction disease (human)
R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
R01HL-18805-04 0003 Sudden cardiac death and the onset of myocardial infarction - Prediction from clinical and laboratory assessments (human)
R01HL-18808-04 0001 Prediction and prevention of sudden cardiac death - Prognostic significance of premature ventricular contractions (human)
R01HL-18878-03 Familial hypercholesteremia--Studies of fibroblasts (human)
P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic
P01HL-20948-02 0004 Molecular basis of cholesterol metabolism - Genetic analysis of the LDL pathway (human)
** R01HL-22963-01 Symbolic logic analysis of congenital heart disease (human)

DISEASE CONTROL AND EPIDEMIOLOGY STUDY SECTION
SEE EPIDEMIOLOGY AND DISEASE CONTROL STUDY SECTION

DISEASE CONTROL, COMMUNICABLE (INFECTIOUS) DISEASES
SEE COMMUNICABLE DISEASE CONTROL

DISEASE PREVENTION, TOXICOLOGY RELATED
SEE TOXICOLOGY, POISON CONTROL AND PREVENTION

DISEASE PREVENTION AND CONTROL
SEE HEALTH, DISEASE PREVENTION AND CONTROL

DISEASE PRONENESS-RISK
SEE ALSO POPULATION STUDIES HUMAN, EPIDEMIOLOGY
** R01HL-01803-23 0020 Arteriosclerosis, glomerulonephritis, rheumatic fever - Virus-induced arterosclerosis (chickens)
R01HL-01979-22 Arteriosclerosis in zoo animals on controlled diets (animals)
** P01HL-03174-23 0010 Mechanisms of acute vascular reaction to injury - Search for mutagens in the human blood (bacteria, animals)
** P01HL-03174-23 0013 Mechanisms of acute vascular reaction to injury - Surface morphology of the aorta in normal and injured states (rats, rabbits)
R01HL-03429-18 Central nervous system and coronary heart disease (human)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
P01HL-06308-18 0010 Mechanisms and therapy of circulatory disease - Ventricular arrhythmias during exercise to CHD and myocardial ischemia (human)
P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
P01HL-08974-14 0005 Natural and experimental atherosclerosis - Atherosclerosis, coronary heart disease and sudden death (human)
P01HL-08974-14 0028 Natural and experimental atherosclerosis - Geographic pathology of atherosclerosis and coronary heart disease (human)
P01HL-09011-15 0018 A research and resource program in blood - Hepatitis B in normal populations--Epidemiology, risk factors and transmission
P01HL-09011-15 0023 A research and resource program in blood - Evaluation of hepatitis B vaccine in endemic settings (human)
** P01HL-11310-12 0069 Mechanisms of cardiovascular disease - Factors affecting mortality and morbidity after heart surgery (human)
** P01HL-11310-12 0070 Mechanisms of cardiovascular disease - Factors affecting long-term mortality and morbidity after heart surgery (human)
** P01HL-12738-10 0117 Physiologic pharmacology and its clinical applications - Ventricular arrhythmias in ischemic heart disease (human)
R01HL-12833-09 Genetic and environmental influences on lung disease (human)
R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
** P50HL-14136-07 0009 Pulmonary SCOR--Airways obstructive diseases - Tuscon epidemiological study of airways obstructive disease (human)
P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
P50HL-14153-07 0001 Johns Hopkins Lung Center--Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)
** P50HL-14153-07 0010 Johns Hopkins Lung Center--Chronic diseases of airways - Risk factors for airways obstruction in a rural community (human)
P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
** P50HL-14164-07 0041 A/S SCOR--Comparative and experimental atherosclerosis - Nonhuman primate pediatric atherosclerosis risk factor
P50HL-14164-07 0044 A/S SCDR--Comparative and experimental atherosclerosis - Cell biology-atherosclerosis project (pigeons)
P50HL-14218-07 0012 Pulmonary SCOR--Newborn lung center - Longitudinal study of ROS--On-line fetal and neonatal monitoring (human)
P50HL-14218-07 0015 Pulmonary SCOR--Newborn lung center - Long term follow-up of infants surviving ROS--Neurological outcome (human)
** P50HL-14230-07 0088 A/S SCOR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
P50HL-15092-07 0011 Immune and fibrotic response to occupational environments - Respiratory and immunologic responses in coffee plant workers
M P50HL-15103-07 A/S SCDR--Early natural history of arteriosclerosis
** P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
P50HL-15103-07 0013 A/S SCDR--Early natural history of arteriosclerosis - Experimental models of atherosclerosis (monkeys)
** P60HL-15162-07 0007 Comprehensive sickle cell center - Core program--Demographic studies (human)
P60HL-15169-05 0009 Support for center for sickle cell disease - Infections in sickle cell anemia (human)
R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
R01HL-15790-06 Follow-up study of acute coronary heart attacks (human)
M P01HL-15832-06 Chemical-structural predispositions to lung injury
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
** R01HL-16908-04 Myocardial function, risk factors and future CHD (men)
** R01HL-16909-04 Myocardial function, risk factors and future CHD (men)
R01HL-17408-03 Fresh blood rheology--Relation to cardiovascular risk (human)
R01HL-17465-04 Beta-thalassemia screening and genetic counseling
** R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
R01HL-17580-04 The impact of stress on coronary heart disease (men)
P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
P50HL-17670-04 0012 Study of ischemic heart disease - Epidemiology of sudden death (human)
R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)
** R01HL-18235-03 Cardiovascular fitness and other risk factors (human)
P50HL-18318-03 0012 Pathogenesis and complications of hypertension - Behavioral factors in hypertension (human)
(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P50HL-18318-03 0018 Pathogenesis and complications of hypertension Plasma renin activity in chronic ischemic heart disease (human)
** P50HL-18323-04 0012 SCOR hypertension center Renin as a risk factor (human)
P50HL-18323-04 0035 SCOR hypertension center Control of high blood pressure at the work site
R01HL-18456-03 Cardiovascular follow-up of hypertensive adolescents
P01HL-18576-03 0013 Thrombosis research program project Early warning and monitoring test systems in thrombotic disease (human)
** R01HL-18589-03 Psychosocial factors and outcome in coronary disease (human)
R01HL-18632-02 Epidemiologic study of chronic lung disease
** P01HL-18645-03 0005 Biology of the artery wall and atherosclerosis - Effects of atherosclerosis risk factors on endothelium of the primate
R01HL-18687-03 Pathophysiology of genetic hypertriglycerinemias (human)
R01HL-18723-03 Genetic heterogeneity of acid lipase-Atherosclerosis (human)
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-18783-04 Detection and control of ventricular premature beats (human)
R01HL-18794-04 Prospective studies of conduction disease (human)
R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
R01HL-18805-04 0001 Sudden cardiac death and the onset of myocardial infarction - Predictive value of maximum exercise stress testing (human)
R01HL-18805-04 0003 Sudden cardiac death and the onset of myocardial infarction - Prediction from clinical and laboratory assessments (human)
R01HL-18805-04 0004 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Clinical follow-up and therapy (human)
R01HL-18805-04 0007 Sudden cardiac death and the onset of myocardial infarction - Analysis of pathologic factors involved in sudden death (human)
R01HL-18907-03 Objective evaluation early after MI and heart surgery (human)
** R01HL-19001-03 Atherosclerosis in bleeder and drug treated subjects (pigs)
R01HL-19018-03 Etiologic factors in cryptogenic fibrosing alveolitis (human)
P50HL-19170-02 0001 Harvard pulmonary SCOR--Chronic diseases of the airways - Natural history, reversibility of pulmonary abnormalities in smokers (human)
P50HL-19171-02 0005 Pulmonary SCOR--Lung injury by childhood infections - Chronic respiratory disease of children in North Carolina
** P50HL-19185-02 0006 Pulmonary SCOR--Neonatal respiratory distress syndromes - Evaluation of risk factors in neonatal respiratory distress (human, sheep)
P50HL-19362-02 0002 A/S SCOR--Atherosclerosis in nonhuman primates - Infant caloric intake, adipose tissue development and atherosclerosis (baboon)
P50HL-19362-02 0003 A/S SCOR--Atherosclerosis in nonhuman primates - Heritability of characters related to atherosclerosis (baboons)
P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of cigarette smoking on atherosclerosis (baboon)
P50HL-19362-02 0007 A/S SCOR--Atherosclerosis in nonhuman primates - Behavior type, cigarette smoking and atherosclerosis (baboon)
** R01HL-19567-03 Impact of emotion on coronary arteries (human)
** R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-19870-03 Hypertensive progeny--Physical and humoral precursor search
R01HL-19922-03 Childhood determinants of blood pressure
R01HL-19930-03 A prospective study--Blood pressure in newborn twins
R01HL-19962-03 High blood pressure in young people in Tecumseh
R01HL-20034-03 Hypertension--Psychophysiologic and genetic precursors (human)
R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)
** R01HL-20124-02 Coronary risk factors (human)
R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)
R01HL-20170-02 Pulmonary infection in splenectomized animals (mice)
R01HL-20238-02 Prospective bundle branch block study (human)
R01HL-20337-02 Thromboembolic diseases (human)
** R01HL-20374-03 Myocardial function--Risk factors and future CHD (human)
R01HL-20381-03 Long-term study of diabetic vascular disease (human)
R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
R01HL-20428-03 The juvenile diabetic heart (human)
** R01HL-20508-03 Diabetes, hyperglycemia and cardiovascular disease (human)
R01HL-20535-02 Cardiovascular disease and evolving diabetes mellitus (human)
R01HL-20539-03 Blood glucose, hemoglobin A1c, and diabetic vascular disease (human)
R01HL-20637-02 Recovery after heart surgery-Bio behavioral factors (human)
** R01HL-20645-01 Etiology of myocardial infarction (human)
** R01HL-20655-02 Autonomic predictors of hypertension in children
R01HL-20662-02 Physical activity, fitness and epidemiology of CHD
R01HL-20807-02 Detection of familial hypercholestorolemia (human)
R01HL-20856-02 Platelet transfusions-Usage and complications (human)
** R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
R01HL-20895-03 0010 Cineangiographic studies of cardiovascular system - Cortical necrosis and acute renal failure (human, dogs, rats, rabbits)
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
R01HL-21039-02 Vascular lesions of diabetes in Oklahoma Indians
** R01HL-21088-02 Genetic patterns in deaths from MI and stroke in Utah
R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
** R01HL-21210-01 Acute renal failure following cardiac surgery (human)
** R01HL-21260-02 Risk factor relationships of atherosclerosis (monkeys)
R01HL-21270-01 Correlation of arterial hemodynamics and morphology (human)
** R01HL-21307-01 Risk reduction and exercise fitness in a population
** R01HL-21319-02 Interpersonal stress and coronary-prone behavior (human)
R01HL-21352-02 Community studies of obstructive lung disease (human)
** R01HL-21527-01 Prospective study of bundle branch block (human)
R01HL-21674-01 Development of automatic implanted defibrillator (dogs, cattle)
** R18HL-21906-01 Stanford five city multifactor risk reduction study
R01HL-21912-01 Biosynthesis of lipoic acid and atherosclerosis (birds, chick embryos)
** R01HL-21971-01 Atherosclerotic disease and risk factors in twins (human)
R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
** R01HL-22255-01 The etiology/prevalence of peripheral arterial disease (human)
R01HL-22298-02 Origins of hypertension (human)
** R01HL-22378-01 Psyco-somatic predictors of CHD in adolescence (human)
** R01HL-22528-02 Early risk predictors for chronic pulmonary disease (human)
** R01HL-22740-01 Behavior and cardiovascular disease--Basic mechanisms (human)
** R01HL-22809-01 Coronary-prone behavior and cardiovascular reactivity (human)
** R01HL-22838-01 Post-transfusion hepatitis in newborn children
** R18HL-22934-01 Behavorial approaches to adolescent hypertension
** R01HL-22982-01 Multicenter postcoronary risk stratification program (human)
R01HL-23078-01 Psychosocial stress and sudden coronary death (human)
R01HL-23194-02 Genetics of hypertension and associated variables (human)
R01HL-23970-01 Mechanisms and control of sudden cardiac death (human, dog)
N01HV-22971-07 Prevention of coronary heart disease (human)
N01HV-22977-08 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22979-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22981-10 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-42931-07 Risk factor intervention trail for the prevention of CHD (men)
** N01HV-42933-09 Multiple risk factors in coronary heart disease (human)
N01HV-53010-03 NAS-NRC twin registry
N01HV-62955-04 Data collection in clinical pathology and morbid anatomy (men)

DISEASE RECURRENCE

R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
R01HL-18805-04 0004 Sudden cardiac death and the onset of myocardial infarction Sudden death survivors-Clinical follow up and therapy (human)
R01HL-18805-04 0007 Sudden cardiac death and the onset of myocardial infarction Analysis of pathologic factors involved in sudden death (human)
R01HL-21427-02 Behavioral changes in post infarction patients

DISEASE REGISTRIES (CLINICAL DISEASE)

SEE HEALTH RECORD SYSTEMS, PATIENT (DISEASE) REGISTRIES

DISEASE REMISSION

** P50HL-14164-07 0032 A/S SCOR-Comparative and experimental atherosclerosis - Plasma cholesterol, lesion regression and vascular function (Rhesus monkey)
** P50HL-14164-07 0038 A/S SCOR--Comparative and experimental atherosclerosis - Peripheral vascular studies-Cholesterol, lesion regression, vascular function
** P50HL-14230-07 0094 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of atherosclerosis and regression (monkeys)
** P01HL-14388-07 0233 Regulation of the circulation in pathological states - Pressure-flow relationships after regression of experimental atherosclerosis
** P50HL-15062-07 0018 Study of lipoproteins, artery wall, and atherosclerosis - Reversal of atherosclerosis in monkeys
P50HL-15062-07 0020 Study of lipoproteins, artery wall, and atherosclerosis - Artery wall reactions-Elevated pressure and hyperlipemia (monkey)
R01HL-20535-02 Cardiovascular disease and evolving diabetes mellitus (human)

DISEASE TRANSMISSION (COMMUNICABLE DISEASE)

SEE COMMUNICABLE DISEASE TRANSMISSION

DISEASES, ACUTE (GENERAL)

P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
P01HL-12738-10 0117 Physiologic pharmacology and its clinical applications - Ventricular arrhythmias in ischemic heart disease (human)
P01HL-14388-07 0188 Regulation of the circulation in pathological states - Renin-angiotensin system in the sheep fetus
** R01HL-15790-06 Follow-up study of acute coronary heart attacks (human)
P01HL-16118-06 0003 Study of emphysema - Degradation of collagen and elastin (human, hamsters, mice)
** P01HL-17382-05 0003 Chemical mediators of acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
P50HL-17682-04 0001 Study of ischemic heart disease - Studies in acute and chronic ischemic heart disease (human)
P50HL-19170-02 0007 Harvard pulmonary SCOR--Chronic diseases of the airways - Therapy effect on airway obstruction in acute asthma (human)
** R01HL-22982-01 Multicenter postcoronary risk stratification program (human)

DISEASES, CHRONIC (GENERAL)

P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
** R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
R01HL-10612-13 0020 Humoral factors in heart failure and hypertension - The control of renin release in the dog
P01HL-11310-12 0080 Mechanisms of cardiovascular disease - Metabolism of the hypertrophied myocardium (human)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
P01HL-14388-07 0224 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (human)
R01HL-14720-08 Factors governing the renal excretion of acid (humans, rats)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
P50HL-17682-04 0001 Study of ischemic heart disease - Studies in acute and chronic ischemic heart disease (human)
P50HL-17682-04 0013 Study of ischemic heart disease - Chronic ischemic heart disease--Myocardial function and metabolism (dogs, swine)
R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)

(contd)

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R01HL-19109-03 Regression of chronic atherosclerosis (rabbits)
** P50HL-19171-02 0003 Pulmonary SCOR--Lung injury by childhood infections - Natural history, host defense defects--Children with chronic pulmonary disease
R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
** R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
R01HL-19741-03 Murine CRO--A model of chronic pulmonary inflammation (mice, rats)
R01HL-19774-03 Pathogenesis of chronic lung disease (rats, mice, bacteria)
** R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-20847-02 Respiratory neurochemical control (human, goats)
R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
R01HL-21482-01 Cardiac function and metabolism in diabetes (rats)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
R01HL-22676-01 Pathogenesis in experimental interstitial pneumonitis (rabbits)

DISEASES, COMPLICATIONS

SEE ALSO NEOPLASMS, CANCER COMPLICATIONS OF
R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)
P01HL-08974-14 0028 Natural and experimental atherosclerosis - Geographic pathology of atherosclerosis and coronary heart disease (human)
P01HL-13108-09 0003 Clinical heart transplantation - Endomyocardial biopsy pathology
P01HL-13108-09 0011 Clinical heart transplantation - Humoral and cellular kinetics of allograft rejection (human)
** P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
P50HL-14214-07 0012 Newborn lung center for hyaline membrane disease - Pulmonary status of children who had HMO as infants
P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
** P60HL-15158-07 0011 Comprehensive sickle cell center - Clinical services--Adult patients
P60HL-15158-07 0012 Comprehensive sickle cell center - Clinical services--Pediatric patients
P60HL-15160-07 0009 Center for sickle cell disease - Natural history of sickle cell disease (human)
P60HL-15162-07 0021 Comprehensive sickle cell center - Pneumococcal vaccine in sickle cell disease (children)
P60HL-15168-07 0005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)
P60HL-15169-05 0009 Support for center for sickle cell disease - Infections in sickle cell anemia (human)
P60HL-15169-05 0012 Support for center for sickle cell disease - Evaluation of the incidence of cholelithiasis in sickle cell disease (human)
P60HL-15169-05 0014 Support for center for sickle cell disease - Orthopaedic aspects of sickle cell disease (human)
P60HL-15169-05 0017 Support for center for sickle cell disease - Study of the natural history of sickle cell disease in the home
P60HL-15170-05 0006 Support for center for sickle cell anemia - Pediatric services--Comprehensive clinic
P60HL-15170-05 0019 Support for center for sickle cell anemia - Renal handling of uric acid in sickle cell anemia (human)
P60HL-15996-06 0003 Cincinnati comprehensive sickle cell center - Prophylactic penicillin in treatment of sickle cell anemia (human)
P60HL-16005-05 0018 Comprehensive sickle cell center - Comprehensive study--Natural history of sickle cell disease in adults (human)
P60HL-16008-06 0009 Wayne State University comprehensive sickle cell center - Natural history of sickle cell anemia (human)
R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
R01HL-18020-04 Splanchnic hemodynamics in man
R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)
P50HL-19185-02 0007 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sodium bicarbonate and albumin in resuscitation of preterm infants (human)
P50HL-19185-02 0009 Pulmonary SCOR--Neonatal respiratory distress syndromes - Nasal continuous positive airway pressure in hyaline membrane disease (human)
** P50HL-19185-02 0011 Pulmonary SCOR--Neonatal respiratory distress syndromes - Complications and sequelae of neonatal respiratory distress (human)
R01HL-20381-03 Long-term study of diabetic vascular disease (human)
R01HL-20522-03 Peripheral arterial disease in the diabetic (human)
R01HL-21416-02 Atherosclerosis in new modles of diabetes mellitus
R01HL-21482-01 Cardiac function and metabolism in diabetes (rats)
** R01HL-21572-01 Natural history of the postphlebitic syndrome
R01HL-21829-01 Etiology of obstructive airway disease in children (also monkeys)
R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
** R01HL-22110-02 Healing complications in vascular grafting (dogs)
M P60HL-23282-01 Comprehensive hospital/community sickle cell center
P60HL-23282-01 0002 Comprehensive hospital/community sickle cell center - Clinical evaluation of alternate pathaway of compliment activation
P60HL-23282-01 0003 Comprehensive hospital/community sickle cell center - Treatment of sickle cell ulcers with physical therapy and vitamin E (human)
** P60HL-23282-01 0004 Comprehensive hospital/community sickle cell center - Bacterial, viral and mycoplasmal infections and sickle cell disease complications
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)

DISEASES, COMPLICATIONS, ADHESIONS

** P01HL-06312-17 0050 Surgical cardiology - Prevention of pericardial and pleural adhesions by silicone oil (dogs)
P01HL-21584-02 0002 Respiratory mechanics in normal and abnormal states - Lung mechanics--Regional deformation and ventilation (dogs)

DISEASES, COMPLICATIONS, ANESTHESIA RELATED

R01HL-09609-11 Lung volume and breathing mechanics during anesthesia (human)
P60HL-17292-04 0029 Vermont Lung Center - Computer-assisted pre-operative evaluation (human)
R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human)
R01HL-20754-02 Anesthetic-induced myocardial depression (rabbits)

DISEASES, COMPLICATIONS, POSTOPERATIVE

SEE ALSO DISEASES, COMPLICATIONS, POSTPERICARDIOTOMY SYNDROME
SEE ALSO INJURIES, SURGICAL WOUND INFECTION
R01HL-08696-15 0020 Orthotopic heart transplantation - Complete cardiopulmonary transplantation (dogs)
R01HL-09315-15 Coronary insufficiency and myocardial revascularization (human, dogs)
R01HL-09609-11 Lung volume and breathing mechanics during anesthesia (human)
P01HL-10539-12 0069 Pathophysiology of circulation - Ventricular compliance and mechanics in intact ventricles (human)
** P01HL-11310-12 0095 Mechanisms of cardiovascular disease - Blood and transfusion disorders (human, rats, monkeys)
R01HL-11901-12 0001 Effects of metabolic surgery on the hyperlipidemias - Partial ileal bypass (human)
R01HL-11901-12 0013 Effects of metabolic surgery on the hyperlipidemias - Human cholesterol and bile acids dynamics--Ileal bypass
** R01HL-11901-12 0018 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass--Postoperative complications (human)
R01HL-11901-12 0020 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass--Endogenous animal model of obesity (rats)
** R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
** R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
R01HL-16292-05 0018 Surgery and non-obstructive coronary insufficiency - Unavoidable subendocardial perfusion caused by venting and hypothermia (dogs)
R01HL-16292-05 0019 Surgery and non-obstructive coronary insufficiency - Distortion of subendocardial vessels in infant hearts (dogs)
P60HL-17265-04 0007 Community blood resource center support - Research--Massive transfusion and trauma (human)
** P60HL-17292-04 0029 Vermont Lung Center - Computer-assisted pre-operative evaluation (human)
R01HL-17369-04 Arterial bypass surgery--Structure and metabolism (monkeys)
** R01HL-17821-03 Cavitation phenomena near prosthetic devices
** R01HL-18143-03 Surgery and pulmonary tissue alterations (dogs, rats, human)
** R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
R01HL-18731-02 RES stimulating materials in experimental shock (dogs)
** R01HL-18738-02 Prevention of postoperative venous thrombi (human, cattle)
R01HL-18762-03 Post-traumatic pulmonary insufficiency (dogs)
** R01HL-18815-03 Surgical vascular disorders (human, dogs)
R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
R01HL-19818-02 Endocarditis on prosthetic heart valves (rabbits, human)
R01HL-19993-02 Optical detection of platelet aggregates (human, baboons)
** R01HL-20080-02 Surgically induced myocardial edema (dogs)
R01HL-20170-02 Pulmonary infection in splenectomized animals (mice)
R01HL-20226-02 Cardiac bypass and coronary collateral physiology (dogs)
R01HL-20637-02 Recovery after heart surgery--Bio-behavioral factors (human)
** R01HL-21533-02 Platelet inhibitor drug in coronary surgery (human)
R01HL-21786-01 Long-term effects of myocardial protection (dogs, rats)
R01HL-21969-01 Prevention of myocardial hypoxia during by-pass (rats, mice, squirrels)
** R01HL-22098-01 Is postoperative infarction due to reperfusion injury? (human, dogs)
** R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
** R01HL-22445-01 Platelet inhibitors--Effect on coronary bypass grafts (dogs)
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
R01HL-22888-01 Prosthetic valve endocarditis--Etiology and therapy (dogs)

DISEASES, COMPLICATIONS, POSTPERICARDIOTOMY SYNDROME

** R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)
P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease

DISEASES, DISABLING

R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)

DISEASES, PATHOLOGIC PROCESSES (NOT CLASSIFIED ELSEWHERE)

** R01HL-03919-20 The cell suface of streptococci (rats, human)
** R01HL-05875-18 Pathologic metabolic and physiologic studies of heart (human, dogs, cats)
** P01HL-06835-17 0040 Cardiovascular disease - Benign and malignant phase of renal hypertension (dogs)
** P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Dirofilaria immitis in the dog
** P01HL-08974-14 0028 Natural and experimental atherosclerosis - Geographic pathology of atherosclerosis and coronary heart disease (human)
** R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
** R01HL-10612-13 0019 Humoral factors in heart failure and hypertension - Pathogenesis of hypertension in the spontaneous hypertensive rat
R01HL-11775-11 Platelet mechanisms in disease (human, primates)
P50HL-14218-07 0006 Pulmonary SCOR--Newborn lung center - Biochemical characteristics of the lung in ROS (human, sheep)
P01HL-14388-07 0159 Regulation of the circulation in pathological states - Early drug and diet interventions and blood pressure development (rats)
P01HL-14388-07 0161 Regulation of the circulation in pathological states - Heterogeneity of left ventricular perfusion in awake dogs
P01HL-14388-07 0163 Regulation of the circulation in pathological states - Adrenergic receptors in coronary vessels (dogs)
P01HL-14388-07 0168 Regulation of the circulation in pathological states - Ionic basis of depolarization (rats, tissue culture)
P01HL-14388-07 0173 Regulation of the circulation in pathological states - Mechanisms of cardiac myosin ATPase
P01HL-14388-07 0195 Regulation of the circulation in pathological states - General review of potential pathophysiologic factors in spontaneous hypertension
R01HL-16642-05 Biochemistry and pathophysiology of plasma kallikrein (human, animals)
** P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
** P01HL-16769-05 0003 Pathobiologic and host defense reactions in the lung - Pathobiologic mechanisms of delayed sensitivity reactions in the lung (animals)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-16769-05 0004 Pathobiologic and host defense reactions in the lung - Pathogenesis of Pseudomonas and Serratia pneumonias (rabbits)
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease - Pathophysiology (human, dogs)
P01HL-17813-04 0002 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease - Ultrastructural abnormalities (human)
R01HL-18032-03 Development of normal and myopathic mammalian heart (hamsters)
** R23HL-19619-01 Sem and x ray analysis in human pulmonary pathology
R01HL-21115-01 Prevention of O2 toxicity with superoxide dismutase (rats)
** R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
** R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
R23HL-22882-01 Modulation by disease of effect of furosemide in man

DISEASES, PATHOLOGIC PROCESSES, INFLAMMATION

R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
** P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
** R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)
** P50HL-14153-07 0004 Johns Hopkins Lung Center--Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)
P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
P01HL-15195-04 0004 Program project in biological materials - Biological evaluation and surface interaction studies (dogs)
P50HL-15389-07 0011 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits
R01HL-15690-07 Hydrolytic enzymes of blood in health and disease (human, animals)
P01HL-16387-04 0009 The blood vessel and thrombogenesis - Role of pituitary gland in the pathogenesis of arteriosclerotic lesions (rats)
P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung - Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
P60HL-17265-04 0009 Community blood resource center support - Research--Developing granulocyte transfusion therapy (human, rabbit)
** P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
R01HL-17404-05 Immunologic mechanisms in heart disease (mice)
** P01HL-17417-05 0001 Experimental lung transplantation - Mechanisms and mediators of lung allograft rejection (dogs, mice)
** P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
R01HL-17964-04 The alternate pathway for fibrinolysis (human)
R01HL-18526-03 Kinins and the human lung
R01HL-18826-04 Interaction of peptides and target cells in lung (human)
** P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
** P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
R01HL-18936-02 Heart preservation and transplantation studies (rat)
R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
** R01HL-19685-03 Pathogenesis of inflammation of the lung (guinea pigs)
P01HL-19717-02 0021 Response of the lung to injury - Gallium lung scans in fibrosing alveolitis (hamsters)
P01HL-19717-02 0039 Response of the lung to injury - Lung scanning in alveolitis and asbestolic interstitial pneumonia (human, animal)
** R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
R01HL-19731-03 Collagen in interstitial fibrosis of lung (human)
** R01HL-19732-03 Lymphokines in pulmonary granulomatous inflammation (mice)
** R01HL-19733-03 Absorption of antigen through inflamed lungs (rabbits)
** R01HL-19741-03 Murine CRO A model of chronic pulmonary inflammation (mice, rats)
R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)
R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
R01HL-19795-03 Synthesis of anaphylatoxic and leucotactic peptides (human)
** R01HL-19819-03 Mitogen induced interstitial pneumonitis (rabbits)
** R01HL-19836-03 Kinin inhibitors detected by use of receptors (cattle)
** R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
R01HL-20220-03 Anaphylatoxins as inflammatory and chemotactic agents (guinea pig, rabbit, human)
** R01HL-20460-03 Aortic histamine synthesis in diabetes (rat)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
** P01HL-20994-02 0005 Dynamics of neutrophil elastase in the lung - Protease inhibitors in pulmonary inflammation and emphysema (rabbits)
P01HL-20994-02 0008 Dynamics of neutrophil elastase in the lung - Structure-function correlation in experimental emphysema (human, dogs)
R01HL-21376-02 Blood-gas barrier solute and water transport (rabbits)
R01HL-21544-02 Proteins of coagulation and Hageman factor pathways (human, goats)
** R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
R01HL-21843-01 Ischemia, diabetes and the microcirculation (rats, cats, hamsters)
R01HL-22257-01 Leukokinesis enhancing factor and lung infections (human, rats)
** R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)
R01HL-22302-01 Immune responses in the human lung (also rabbits, monkeys)
R23HL-22437-01 Leukotactic mediators in lung inflammatory reactions (rats, rabbits, human)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
M P01HL-22602-01 Pathophysiology of the endothelium
** P01HL-22602-01 0003 Pathophysiology of the endothelium - Mechanisms of endothelial proliferation (human, animals)
R23HL-22823-01 Phagocytic and immune defense mechanisms of the lung (mice)
R01HL-22924-01 The airway mucosal barrier (guinea pigs)
** R01HL-23161-01 0005 Biology of myocardial ischemia - Localization of complement in myocardial infarction (dog)
** R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)

DISEASES, PATHOLOGIC PROCESSES, INFLAMMATION, ABSCESS

R01HL-20963-01 Experimental lung abscess (rabbits)

DISEASES, PATHOLOGIC PROCESSES, INFLAMMATION, ANTIINFLAMMATORY AGENTS

SEE ALSO CONNECTIVE TISSUE DISORDERS, RHEUMATIC DISORDERS, ANTIRHEUMATIC AGENTS
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, ANALGESICS, ANTIPYRETICS
SEE ALSO PURINES-PYRIMIDINES METABOLISM ERRORS, GOUT DRUGS
R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
P01HL-06350-17 0019 Hemostasis research program project - Microcirculation (human, rats, rabbits)
R01HL-08399-15 Platelet injury in infections and allergic diseases (human)
R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
** P50HL-14147-08 0001 Specialized center of research in thrombosis - Role of aspirin, other anti-platelet agents in platelet function (rat, human)
R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
R01HL-14890-07 Platelet prostaglandins (human, rabbits)
R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
P01HL-16411-04 0002 Blood systems in coagulation and vessel disease - Early stages of coagulation and cardiovascular disease (human, rabbits)
R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)
R01HL-16496-04 Prostaglandins and renin experimental hypertension (rabbits)
P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
R01HL-18204-03 Regional blood flow in viral myocarditis (turkeys)
R01HL-18245-03 Transition state analog inhibitors of thrombin (human, cattle)
P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)
R01HL-19225-02 0001 Types and mechanisms of pulmonary hypertension - Structural changes (human animals)
** R01HL-19237-03 Obstructive lung disease and alveolar macrophages (human, animals)
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
R01HL-19819-03 Mitogen induced interstitial pneumonitis (rabbits)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
R01HL-22444-01 Bronchial mucus production in organ culture (human)
R01HL-22527-01 Prostacyclin thromboxanes in the cardiovascular system (human, rabbits)
R01HL-22951-01 Studies on the affect of vitamin E on platelets (human, rats)

DISEASES, PATHOLOGIC PROCESSES, INFLAMMATION, FOREIGN BODY (REACTION)

SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, IMPLANT
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R01HL-19711-03 Lymphokines in pulmonary granulomas (guinea pigs)

DISEASES, PATHOLOGIC PROCESSES, IRRITATION (IRRITANTS)

SEE ALSO NEOPLASTIC TRANSFORMATION
P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R23HL-21369-02 Tracheal mucin synthesis in experimental bronchitis (rats)

DISEASES, PATHOLOGIC PROCESSES, IRRITATION, FIBROSING AGENTS

R01HL-19668-03 Biochemistry of lung connective tissue (rats)
R01HL-19720-03 Evaluation of anti-fibrotic agents in pulmonary fibrosis (rats)
** R01HL-20095-03 Role of lymphokines and monocytes in lung fibrosis (human, guinea pigs, rats)

DISEASES, PATHOLOGIC PROCESSES, NECROSIS

SEE ALSO CARDIOVASCULAR DISORDERS, INFARCTION
SEE ALSO CELL DEATH
SEE ALSO DISEASES, PATHOLOGIC PROCESSES, NECROSIS, GANGRENE (GENERAL)
SEE ALSO KIDNEY DISORDERS, KIDNEY NECROSIS
SEE ALSO MUSCULAR DISORDERS, MUSCLE NECROSIS
SEE ALSO SKELETAL DISORDERS, BONE NECROSIS
P01HL-06285-18 0143 Cardiovascular-respiratory physiology and biochemistry - Myocardial ischemia (human, dogs, lambs)
** P01HL-06370-17 0015 Cardiopulmonary and renal pathology research center - Pathogenesis of chemically induced tissue injury (rats)
** P01HL-07896-15 0046 Environmental biomedical research program - Treatment of radiation induced tissue injury by hyperbaric oxygen (human)
R01HL-17404-05 Immunologic mechanisms in heart disease (mice)
P50HL-17682-04 0013 Study of ischemic heart disease - Chronic ischemic heart disease--Myocardial function and metabolism (dogs, swine)
R01HL-20648-01 Physical factors and coronary flow (dogs)
R01HL-21750-02 Electrocardiographic quantification of infarct size (dogs, human)
R01HL-21786-01 Long-term effects of myocardial protection (dogs, rats)
R01HL-22098-01 Is postoperative infarction due to reperfusion injury? (human, dogs)
** R01HL-23981-01 Acute alveolar injury (dogs)

DISEASES, PATHOLOGIC PROCESSES, NECROSIS, GANGRENE (GENERAL)

R01HL-22113-02 Micro/macrovasculature in healing of foot lesions (human)

DISEASES, PATHOLOGY (GENERAL)*

SEE ALSO HISTOPATHOLOGY (GENERAL)*
SEE ALSO PATHOLOGY STUDY SECTION
P01HL-03174-23 0002 Mechanisms of acute vascular reaction to injury - Chemical structure, pathological significance of amyloid substance (human, mice)
** P01HL-06314-17 0048 Immunologic mechanisms in cardiovascular disease - Pathogenesis of glomerulonephritis (rats, mice)
R01HL-07605-16 Congenital heart disease research program (human, dogs)
** P01HL-13738-08 0003 Cardiac assist devices and artificial hearts - Pathophysiological effects of the artificial heart (calves)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P50HL-14136-07 9003 Pulmonary SCOR--Airways obstructive diseases - Pathology core (human, dogs)
** P50HL-14153-07 0019 Johns Hopkins Lung Center--Chronic diseases of airways - Pathology core (human, animal)
** P50HL-14164-07 0026 A/S SCOR--Comparative and experimental atherosclerosis - Comparative pathology unit (pigeons, monkeys)
** P50HL-14187-07 0016 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Core pathology service (dogs, rabbits, human)
** P50HL-14212-07 0011 Correlated studies of pulmonary fibrosis - Pathology core (human, animal)
P50HL-14212-07 0012 Correlated studies of pulmonary fibrosis - Inorganic particulates in tobacco, smoke and lungs of cigarette smokers (human)
P01HL-14388-07 0151 Regulation of the circulation in pathological states - Catecholamine release in potassium ion-free contractures in the caudal artery
P01HL-14388-07 0152 Regulation of the circulation in pathological states - Ion flux alterations in caudal artery in SHR
P01HL-14388-07 0153 Regulation of the circulation in pathological states - Subcellular distribution of calcium (rats)
P01HL-14388-07 0154 Regulation of the circulation in pathological states - Energetics of smooth muscle contraction (rats)
P01HL-14388-07 0155 Regulation of the circulation in pathological states - Cardiopulmonary afferent activity, carotid chemo-baroreceptor reflexes
P01HL-14388-07 0156 Regulation of the circulation in pathological states - Blood pressure with drinking to intracranial angiotensin II injections (rats)
P01HL-14388-07 0157 Regulation of the circulation in pathological states - Autoregulation of renal blood flow and distribution in sodium excretion control
P01HL-14388-07 0158 Regulation of the circulation in pathological states - Oevelopmental aspect of abnormal vascular reactivity (rats)
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
P50HL-15389-07 0009 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies--Pulmonary mycotoxicosis
** P50HL-15389-07 0018 Pulmonary SCOR--Hypersensitivity pneumonitis - Pathology core (human, animal)
P60HL-17269-04 0001 National heart and blood vessel research and demonstration center - Atherosclerosis--Arterial pathology and plasma lipids (human)
P60HL-17269-04 0004 National heart and blood vessel research and demonstration center - Atherosclerosis--Clinical surgical aspects (human)
P60HL-17269-04 0048 National heart and blood vessel research and demonstration center - Atherosclerosis--Lipoproteins and the arterial wall (human)
** R01HL-17532-04 Infarct size--ECG, angio, path, correlation in dogs
R01HL-17581-03 Patent ductus arteriosus and pulmonary hypertension (dogs)
** P50HL-17646-04 0003 Study of ischemic heart disease - Core pathology facility (human, dogs)
** P50HL-17648-04 0020 Study of ischemic heart disease - Core pathology laboratory--Ischemic heart disease (human, animal)
** P50HL-17655-04 0010 Study of ischemic heart disease - Core facility--Cardiovascular pathology (human, animal)
** P50HL-17665-04 0028 Study of ischemic heart disease - Pathologic and biochemical studies of ischemic myocardium (human, dog)
** P50HL-17667-04 0045 Study of ischemic heart disease - Pathology of myocardial ischemic necrosis (human)
** P50HL-17669-04 0022 Ischemic heart disease center (SCOR) - Pathological studies of human and experimental ischemic heart disease
** P50HL-17670-04 0016 Study of ischemic heart disease - Core pathology laboratory (human, dogs, monkeys)
** P50HL-17682-04 0012 Study of ischemic heart disease - Pathology core laboratory (human)
** R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
** R01HL-18805-04 0007 Sudden cardiac death and the onset of myocardial infarction - Analysis of pathologic factors involved in sudden death (human)
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
** P50HL-19362-02 0015 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Pathology and morphometry (baboons)
** R01HL-21684-02 0003 Radionuclide infarct sizing and therapy evaluation - Core pathology laboratory (dogs, human)
N01HR-62943-05 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)

DISEASES, PROGNOSIS

P01HL-04664-18 0015 Cardiovascular and lung dynamics - Computer system for the cardiovascular laboratory
** P01HL-06835-17 0048 Cardiovascular disease - Aldosterone producing adenoma prediction of curability (human)
** P01HL-06835-17 0052 Cardiovascular disease - Aortic distensibility (human)
R01HL-09474-11 Natural history-congenital heart defects--Joint study (human)
** P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
P01HL-10539-12 0031 Pathophysiology of circulation - Post myocardial infarction care--Psychological aspects (human)
R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-10718-10 Natural history of congenital heart defects--Joint study (human)
P01HL-11310-12 0073 Mechanisms of cardiovascular disease - Electrophysiological study of atrial fibrillation (human)
P01HL-11310-12 0083 Mechanisms of cardiovascular disease - Ventricular volume and hemodynamics in adult congenital heart disease
P01HL-11310-12 0091 Mechanisms of cardiovascular disease - Noninvasive techniques in cardiovascular diagnosis (human)
** P01HL-11310-12 0092 Mechanisms of cardiovascular disease - Exercise electrophysiology (human)
R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)
R01HL-12542-07 Natural history, congenital heart defects--Joint study (human)
** R01HL-12611-10 Basic and clinical studies of the ST-T deflection (human, dogs)
P01HL-12738-10 0117 Physiologic pharmacology and its clinical applications - Ventricular arrhythmias in ischemic heart disease (human)
R01HL-12833-09 Genetic and environmental influences on lung disease (human)
** P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
** P01HL-13108-09 0009 Clinical heart transplantation - B cell alloantigens in cardiac allograft compatibility (human)
** P01HL-13108-09 0010 Clinical heart transplantation - Serum factors inhibiting lymphocyte responses in MLC (human, bush babies)
P50HL-14214-07 0012 Newborn lung center for hyaline membrane disease - Pulmonary status of children who had HMO as infants
P50HL-14214-07 0013 Newborn lung center for hyaline membrane disease - Oevelopmental outcome of children who had HMO as infants
P50HL-14214-07 0032 Newborn lung center for hyaline membrane disease - Evoked electroencephalographic potential in infants with HMO (human)
** P50HL-14214-07 0033 Newborn lung center for hyaline membrane disease - Statistical modeling, predictive classification in clinical management of HMO
** P50HL-14218-07 0012 Pulmonary SCOR--Newborn lung center - Longitudinal study of ROS--On-line fetal and neonatal monitoring (human)
P60HL-15160-07 0009 Center for sickle cell disease - Natural history of sickle cell disease (human)
R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
R01HL-15526-05 Respiratory mechanics in children
P60HL-16005-05 0018 Comprehensive sickle cell center - Comprehensive study--Natural history of sickle cell disease in adults (human)
P60HL-16008-06 0009 Wayne State University comprehensive sickle cell center - Natural history of sickle cell anemia (human)
R01HL-16403-05 Prognostication by computer--Analyzed vectorcardiogram (human)
R01HL-16908-04 Myocardial function, risk factors and future CHO (men)
R01HL-17408-03 Fresh blood rheology--Relation to cardiovascular risk (human)
** R01HL-17532-04 Infarct size--ECG, angio, path, correlation in dogs
P50HL-17646-04 0001 Study of ischemic heart disease - Core clinical investigation unit
P50HL-17646-04 0015 Study of ischemic heart disease - Protecting ischemic myocardium in patients with evolving myocardial infarction
P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
P50HL-17651-04 0039 Ischemic heart disease specialized center of research - Measurement and prediction of infarct size (human, dog)
P50HL-17651-04 0046 Ischemic heart disease specialized center of research - Clinical core--Physiological changes/biochemical effects of myocardial ischemia
P50HL-17655-04 0004 Study of ischemic heart disease - Coronary arteriography in survivors of acute myocardial infarction (human)
P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
P50HL-17669-04 0013 Ischemic heart disease center (SCOR) - Exercise in patients with ischemic heart disease
R25HL-18414-03 Hypertension--Family strategies for patient adherence
R01HL-18632-02 Epidemiologic study of chronic lung disease
R01HL-18683-03 Left ventricle function in aortic regurgitation (human)
R01HL-18783-04 Oetection and control of ventricular premature beats (human)
R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
R01HL-18805-04 0003 Sudden cardiac death and the onset of myocardial infarction - Prediction from clinical and laboratory assessments (human)
R01HL-18805-04 0004 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Clinical follow-up and therapy (human)
R01HL-18808-04 0001 Prediction and prevention of sudden cardiac death - Prognostic significance of premature ventricular contractions (human)
** P50HL-19170-02 0001 Harvard pulmonary SCOR--Chronic diseases of the airways - Natural history, reversibility of pulmonary abnormalities in smokers (human)
P50HL-19187-02 0007 Pediatric pulmonary SCOR--Hyaline membrane disease - Follow-up study--Infants with hyaline membrane disease (human)
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
R01HL-19858-03 UMMC--Blood pressure precursors and consequences (human)
** R01HL-20374-03 Myocardial function--Risk factors and future CHO (human)
R01HL-21527-01 Prospective study of bundle branch block (human)
R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)
R01HL-22113-02 Micro/macrovasculature in healing of foot lesions (human)
R01HL-22378-01 Psyco-somatic predictors of CHO in adolescence (human)
** N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)
N01HR-32903-11 Pilot study to standardize the measurement of 'closing volume' (human)
N01HV-53015-09 Establishment of a lipid research clinic (human)

DISEASES, SIGNS-SYMPTOMS (NOT GROUPED ELSEWHERE)

SEE ALSO NEUROLOGIC MANIFESTATIONS
N01HB-72916-02 Crisis and pain symptom prophylaxis by oral zinc therapy (human)
P01HL-11310-12 0067 Mechanisms of cardiovascular disease - Cardiac performance with measured homodynamic variables (human)
R01HL-18175-03 Orug taking for hypertension in a rural community

DISEASES, SIGNS-SYMPTOMS, HIRSUTISM

R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)

DISEASES, SYNDROMES NOT LISTED ELSEWHERE, GOODPASTURE'S SYNDROME

P01HL-06314-17 0063 Immunologic mechanisms in cardiovascular disease - Glomerular cells in tissue culture (human)

DISOPYRAMIDE

SEE PYRIOINAMIOES, OISOPYRAMIOE

DISSOCIATION (REACTIONS) CHEMISTRY

SEE CHEMICAL REACTIONS, OISSOCIATION

DISSOLVED HYDROGEN BLOOD FLOW MEASUREMENT

SEE CAROIOVASCULAR OISOROERS OIAGNOSIS, BLOOO FLOW MEASUREMENTS, HYOROGEN*

DISULFIDE BONDS

SEE CHEMICAL BONOS, OISULFIOE BONOS

DISULFIDES

SEE SULFIOES, OISULFIOES

DISULFIRAM

SEE THIOCARBAMATES, OISULFIRAM

DIURESIS

SEE KIONEY FUNCTION, OIURESIS

DIURETICS

SEE KIONEY FUNCTION, OIURETICS

DIURNAL VARIATION

SEE BIOPERIOOICITY, CIRCAOIAN RHYTHMS

DIVALENT CATIONS

SEE IONS, CATIONS, OIVALENT

DIVALENT METALS

SEE METALS, OIVALENT METALS

DIVERTICULITIS, GASTROINTESTINAL (GENERAL)

SEE GASTROINTESTINAL OISOROERS, OIVERTICULITIS

DIVING

SEE WATER ENVIRONMENT, OIVING ANO SWIMMING

DIVING REFLEX

SEE WATER ENVIRONMENT, OIVING REFLEX

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

DMI
SEE AZEPINES, DESIPRAMINE

DNA
SEE NUCLEIC ACIDS, DNA

DNA, RECOMBINANT
SEE NUCLEIC ACIDS, UNNATURAL NUCLEIC ACIDS, HYBRID NUCLEIC ACIDS

DNA, RECOMBINANT, ARTIFICIALLY INDUCED
SEE GENETIC MANIPULATION

DNA BIOSYNTHESIS
SEE NUCLEIC ACIDS SYNTHESIS, DNA

DNA CIRCULAR
SEE NUCLEIC ACIDS, DNA CIRCULAR

DNA LIGASE (REPAIRASE)
SEE NUCLEIC ACIDS REPAIR, DNA REPAIR (ENZYME)

DNA MANIPULATION (TRANSFER TO FOREIGN HOSTS)
SEE GENETIC MANIPULATION

DNA MITOCHONDRIAL
SEE NUCLEIC ACIDS, MT DNA

DNA NUCLEOTIDYLTRANSFERASE
SEE NUCLEOTIDYLTRANSFERASES, DNA NUCLEOTIDYLTRANSFERASES

DNA POLYMERASE
SEE NUCLEOTIDYLTRANSFERASES, DNA NUCLEOTIDYLTRANSFERASES

DNA REPAIR (ENZYMES)
SEE NUCLEIC ACIDS REPAIR, DNA REPAIR (ENZYME)

DNA REPLICATION
SEE NUCLEIC ACIDS SYNTHESIS, DNA

DNA TRANSFER, ARTIFICIALLY INDUCED
SEE GENETIC MANIPULATION

DOBUTAMINE
SEE PHENYLALKYLAMINES, CATECHOLAMINES, DOBUTAMINE

DOCUMENTATION SYSTEMS
SEE INFORMATION SYSTEMS (INCL BANKS AND CENTERS)

DOGS
SEE MAMMALS, CARNIVORES, DOGS*

DOHP (DIOLEYLPHOSPHATE) MODEL
SEE BIOLOGICAL TRANSPORT, MEMBRANE MODELS

DONNAN EFFECT ON CELLS
SEE CELL FLUIDS, OSMOTIC PRESSURE

DONORS
SEE BLOOD TRANSFUSION, BLOOD DONORS
SEE TISSUE DONORS

DOPA
SEE CYCLIC AMINO ACIDS, DOPA

DOPAMINE
SEE PHENYLALKYLAMINES, CATECHOLAMINES, DOPAMINE

DOPAMINE (BETA)-HYDROXYLASE
SEE OXYGENASES, DOPAMINE (BETA)-MONOOXYGENASE

DOPAMINE (BETA)-MONOOXYGENASE
SEE OXYGENASES, DOPAMINE (BETA)-MONOOXYGENASE

DOPAMINERGIC RECEPTORS
SEE NEUROTRANSMITTERS RECEPTORS, ADRENERGIC RECEPTORS, DOPAMINERGIC RECEPTORS

DORMANT VIRUS DISEASES
SEE VIRUS DISEASE CHARACTERISTICS, LATENT DORMANT OR SLOW

DOSAGE
SEE DOSAGE AND ROUTE, DOSAGE

DOSAGE AND ROUTE, DOSAGE
SEE ALSO DRUGS, PHARMACOLOGY, BIOAVAILABILITY
SEE ALSO DRUGS ABUSE, OVERDOSE
P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
R01HL-08696-15 0001 Orthotopic heart transplantation - Transplantation immunology--Antithymocyte globulin (rabbits, monkeys)
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
P01HL-08899-14 0007 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on visual function (human, animals)
** P01HL-08899-14 0039 Tolerance to respiratory gases in health and disease - Dose-response studies of oxygen on CO2 reactivity in brain vessels (human)
** P01HL-08899-14 0048 Tolerance to respiratory gases in health and disease - Changes in human vision during known tolerable exposures
** P01HL-08899-14 0049 Tolerance to respiratory gases in health and disease - Dose-response measures of severe oxygen toxicity (monkeys)
P01HL-08899-14 0051 Tolerance to respiratory gases in health and disease - Oxygen effects upon isolated retinal metabolism (rabbits, monkeys)
P01HL-08899-14 0065 Tolerance to respiratory gases in health and disease - Adaptation and effects of narcotic gases exposure (human)
R01HL-08977-14 Quantitation of flow and solute flux in microvessels (cats, rats)
R01HL-10834-09 Fetal and neonatal pulmonary circulation (goats)
R01HL-10951-11 Neural control of the heart (dogs, rats)
P01HL-11351-12 0010 Cellular and molecular mechanisms of myocardial function - Basic ionic exchange studies (rats)
P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotheropeutic drugs and cardiovascular system (human, rats)
R01HL-14944-07 Renal vascular reactivity in hypertensive patient
P50HL-15092-07 0001 Immune and fibrotic response to occupational environments - X-ray diffraction study-Dust exposure in asbestos cement products manufacturing
R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
R01HL-15444-06 Neonatal development of adrenergic receptor mechanisms (pigs)
R01HL-15526-05 Respiratory mechanics in children
R01HL-16361-03 Fibrin complexes in intermediary coagulation (human, rabbits)
P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)
R01HL-19105-02 Detection and adherence of fibrin monomer complexes (human)
P50HL-19170-02 0004 Harvard pulmonary SCOR--Chronic diseases of the airways - Exercise, increased ventilation effect on airway exposure and responses (rodent)
P01HL-19242-02 0004 Study of vascular smooth muscle - Cyclic nucleotide metabolism in smooth muscle cultures (human, rats)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
P01HL-20993-02 0008 Population dynamics of arterial cells in atherogenesis - Angiotoxicity of cholesterol oxidation in atherogenesis (rabbits)
R01HL-21115-01 Prevention of O2 toxicity with superoxide dismutase (rats)
R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)
R23HL-22882-01 Modulation by disease of effect of furosemide in man

DOSAGE AND ROUTE, INFUSIONS ARTERIAL
R01HL-14826-05 External isotope assay of atherosclerosis (rats, rabbits)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)

DOSAGE AND ROUTE, INFUSIONS VENOUS
P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
P01HL-15486-06 0006 Studies on thrombosis - Clinical investigation unit
R01HL-19289-03 Assessment of infusion methods for myocardial mapping (dogs)
R01HL-19898-03 Desferrioxamine therapy in thalassemia (dogs, rats, children)
R01HL-20000-03 Iron overload in homozygous beta thalassemia (human)
R01HL-22417-01 Microprocessors in medical applications (dogs)

DOSAGE AND ROUTE, INHALATION
SEE ALSO SENSORY DEPRESSION, ANESTHESIA (GENERAL), INHALATION
P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
P50HL-19170-02 0004 Harvard pulmonary SCOR--Chronic diseases of the airways - Exercise, increased ventilation effect on airway exposure and responses (rodent)
** R01HL-19647-03 Therapeutic aerosols
R01HL-19720-03 Evaluation of anti-fibrotic agents in pulmonary fibrosis (rats)
** R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)

DOSAGE AND ROUTE, INJECTIONS, MICROINJECTIONS
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)

DOSAGE AND ROUTE, ISOLATION-PERFUSION
R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
P01HL-06285-18 0145 Cardiovascular-respiratory physiology and biochemistry - Pulmonary, pleural and systemic microcirculation (animals)
R01HL-08696-15 0012 Orthotopic heart transplantation - Transplantation immunology-Modulation of donor antigenicity (dogs)
R01HL-08696-15 0013 Orthotopic heart transplantation - Transplantation immunology-Cardiac heterotransplantation (rabbits, dogs)
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
R01HL-12879-09 0010 Pulmonary transport and metabolism in vivo - Lung morphometry in control and edematous lungs (dogs)
R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
P01HL-15835-06 0013 Study of muscles related to heart disease - Cardiac bioenergetics (rats)
** P01HL-17871-04 0013 Kidney, sodium, cardiac output, arterioles and hypertension - Perfusion pressure and renal sodium excretion (rats)
R01HL-17944-03 Studies in lung preserva... ,dogs)
P01HL-18646-03 0010 Studies basic to heart transplantation - Development and study of a heart preservation chamber (dogs, sheep)
R01HL-20219-02 Cryopreservation of the isolated heart (rats)
R01HL-20344-02 Regulation of protein turnover in lung tissue (rats)
R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)

DOSAGE AND ROUTE, PERFUSION
SEE ALSO BLOOD TREATMENT, WHOLE BODY PERFUSION (BLOOD REPLACEMENT)
R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
P01HL-06285-18 0197 Cardiovascular-respiratory physiology and biochemistry - Microperfusion and micropuncture of renal tubules (hamsters, desert rats)
** P01HL-06312-17 0032 Surgical cardiology - Preservation of the heart by perfusion (dogs)
P01HL-06312-17 0052 Surgical cardiology - Assay of metabolic variables of rat heart
P01HL-08805-15 0025 Regulation of ventilation and pulmonary circulation - Pulmonary edema (rabbits)
P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo--Capillary membrane in normal pulmonary hypertensive lung
** P01HL-14388-07 0161 Regulation of the circulation in pathological states - Heterogeneity of left ventricular perfusion in awake dogs
** P01HL-14388-07 0162 Regulation of the circulation in pathological states - Phasic coronary flow and myocardial perfusion in aortic regurgitation (dogs)
R01HL-15520-06 Total blood replacement by fluorocarbons and polyols (rats)
P50HL-17648-04 0012 Study of ischemic heart disease - Retrograde coronary venous perfusion--Acute myocardial ischemia
P50HL-17651-04 0016 Ischemic heart disease specialized center of research - Retroperfusion of coronary venus circulation with therapeutic agents (dogs)
** P50HL-17651-04 0043 Ischemic heart disease specialized center of research - Gradual reperfusion following acute coronary occlusion (dog)
R01HL-18952-03 Metabolism in perfused fetal and newborn rabbit lungs
** R01HL-20073-02 Blood compatible materials by fluid perfusion (human, dogs)
R01HL-21115-01 Prevention of O2 toxicity with superoxide dismutase (rats)
** R23HL-22448-01 Modulation of heart graft antigenicity by perfusion (rats)
R01HL-22500-01 Conversion of choline to phosphatidylcholine in lung (rabbits, pigs)
R01HL-23161-01 0004 Biology of myocardial ischemia - Structure of myofibrils and membranes in early ischemia (dogs, rabbit, rodents)

DOSAGE AND ROUTE, RATE AND DURATION OF ADMINISTRATION
SEE ALSO DRUGS, SLOW RELEASE PREPARATIONS
R23HL-21203-02 Effect of vasoactive agents on left-to-right shunts (lambs)
R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)
R01HL-22567-01 Validation of a cholesterol absorption method in man
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

DOSAGE AND ROUTE, ROUTE OF ADMINISTRATION
SEE ALSO DRUGS, PHARMACOLOGY, BIOAVAILABILITY
SEE ALSO GASTROINTESTINAL FUNCTION, ABSORPTION-TRANSPORT, DRUGS
SEE ALSO NUTRITION, DIET SCHEDULE AND ROUTE
** N01HB-72916-02 Crisis and pain symptom prophylaxis by oral zinc therapy (human)
R01HL-10834-09 Fetal and neonatal pulmonary circulation (goats)
P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
R01HL-14127-16 Methemoglobinemia and antihypertensive drugs (cats, mice, rats)
P60HL-15169-05 0018 Support for center for sickle cell disease - Studies on sickle cell disease (human, rats, dogs)
P50HL-17651-04 0016 Ischemic heart disease specialized center of research - Retroperfusion of coronary venus circulation with therapeutic agents (dogs)
P50HL-17665-04 0011 Study of ischemic heart disease - Development of new methods for the determination of infarct size (dog, human)
** R01HL-18068-02 Chemistry and activity of homologous heparin fractions (rodents)
R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
P50HL-19156-02 0003 Pulmonary SCOR–Chronic diseases of airways - Powdered tantalum to study airway morphology and mucociliary clearance (human)
R01HL-20016-03 Chelator development for thalassemia (human, mice, rats, dogs, monkeys)
R01HL-21476-02 Anticoagulant drug absorption interactions (rats)
R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
** R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)
R01HL-22567-01 Validation of a cholesterol absorption method in man
R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)
R01HL-22862-01 CNS-mediated effects of antiarrhythmic drugs (dogs)
R01HL-23726-01 Treatment of ventricular arrhythmias with propranolol (human)

DOSAGE FORMS
SEE ALSO DRUGS, PHARMACOLOGY, BIOAVAILABILITY
SEE ALSO DRUGS, SLOW RELEASE PREPARATIONS
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)

DOSAGE SCHEDULE
SEE DOSAGE AND ROUTE, DOSAGE

DOUBLE RADIOTRACER
SEE RADIOTRACERS, DOUBLE (MULTIPLE)*

DOUBLY RADIOISOTOPE LABELED
SEE RADIOTRACERS, DOUBLE (MULTIPLE)*

DOXAPRAM
SEE OXAZINES, MORPHOLINES, DOXAPRAM

DOXORUBICIN
SEE ANTIBIOTICS, ADRIAMYCIN

DRILLS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS (CATARRHINES)*

DRINKING BEHAVIOR (ALCOHOL)
SEE ALCOHOLISM - DRINKING, ALCOHOL CONSUMPTION

DRINKING BEHAVIOR (WATER)
SEE NUTRIENT INTAKE ACTIVITY, DRINKING BEHAVIOR (WATER)

DRINKING REGULATORY CENTERS
SEE BRAIN, DRINKING REGULATORY CENTERS

DRIVE
SEE PSYCHOLOGY, MOTIVATION

DROPSY
SEE BODY FLUID BALANCE, EDEMA

DRUG BIOAVAILABILITY
SEE DRUGS, PHARMACOLOGY, BIOAVAILABILITY

DRUG INDUCED NEOPLASMS
SEE NEOPLASMS, DRUG INDUCED

DRUG INFORMATION SYSTEMS
SEE CHEMICAL AND DRUG INFORMATION SYSTEMS

DRUG METABOLISM
SEE DRUGS, PHARMACOLOGY, BIOCHEMICAL

DRUG QUALITY-STANDARDS
P60HL-17269-04 0022 National heart and blood vessel research and demonstration center - Medicinal chemistry (rabbit, dog, guinea pig)

DRUG REGISTRIES, REFERRAL CENTERS AND RESOURCES
SEE CHEMICAL AND DRUG REGISTRIES, REFERRAL CENTERS AND RESOURCES

DRUGS
SEE ALSO ANTIBIOTICS
SEE ALSO ANTIMETABOLITES
SEE ALSO BILE, CHOLAGOGUES AND CHOLERETICS
SEE ALSO BLOOD AND RE DRUGS (GENERAL)
SEE ALSO BLOOD COAGULATION, ANTICOAGULANTS
SEE ALSO BLOOD COAGULATION, ANTIFIBRINOLYTIC AGENTS
SEE ALSO BLOOD COAGULATION, FIBRINOLYTIC AGENTS
SEE ALSO BLOOD COAGULATION, HEMOSTATICS
SEE ALSO BLOOD SUBSTITUTES
SEE ALSO BODY FLUID BALANCE, ACID-BASE, ANTIACIDOSIS DRUGS
SEE ALSO CALCIFICATION INHIBITORS (CALCIUM NEGATIVE BALANCE DRUGS)
SEE ALSO CARBOHYDRATE BALANCE, HYPOGLYCEMIC AGENTS
SEE ALSO CARDIOVASCULAR AGENTS
SEE ALSO CARDIOVASCULAR AGENTS, ANTIATHEROGENIC AGENTS
SEE ALSO CHOLESTANE SERIES, CHOLESTEROL INHIBITORS
SEE ALSO COMMUNICABLE DISEASE CONTROL AGENTS
SEE ALSO CONNECTIVE TISSUE DISORDERS, RHEUMATIC DISORDERS, ANTIRHEUMATIC AGENTS
SEE ALSO DISEASES, PATHOLOGIC PROCESSES, INFLAMMATION, ANTIINFLAMMATORY AGENTS
SEE ALSO DOSAGE FORMS
SEE ALSO FERTILITY, ANTIFERTILITY DRUGS
SEE ALSO HEMOPROTEINS, HEMOGLOBINOPATHIES, SICKLING INHIBITORS
SEE ALSO HYPERSENSITIVITY, ANTIALLERGY DRUGS
SEE ALSO IMMUNITY, IMMUNOSUPPRESSIVE AGENTS
SEE ALSO KIDNEY FUNCTION, ANTIDIURETICS
SEE ALSO KIDNEY FUNCTION, DIURETICS
SEE ALSO LIPID MOBILIZING FACTORS
SEE ALSO LIPOGENIC INHIBITORS
SEE ALSO LIPOTROPIC FACTORS
SEE ALSO MEDICINAL CHEMISTRY STUDY SECTION
SEE ALSO MUSCLE RELAXANTS
SEE ALSO MUSCLE STIMULANTS
SEE ALSO NATURAL PRODUCTS
SEE ALSO NEOPLASTIC THERAPY, ANTINEOPLASTIC AGENTS
SEE ALSO NEUROPHARMACOLOGICAL AGENTS
SEE ALSO NUTRIENT INTAKE ACTIVITY, APPETITE DEPRESSANTS
SEE ALSO PLANTS EXTRACTS, MEDICINAL PLANTS
SEE ALSO PROTEOLYTIC AGENTS (NONENZYMATIC)
SEE ALSO PURINES-PYRIMIDINES METABOLISM ERRORS, GOUT DRUGS
SEE ALSO RESPIRATORY DRUGS, BRONCHOCONSTRICTORS
SEE ALSO RESPIRATORY DRUGS, BRONCHODILATORS
SEE ALSO RESPIRATORY DRUGS, EXPECTORANTS AND MUCOLYTICS
SEE ALSO TEMPERATURE, CRYOPROTECTIVE AGENTS
SEE ALSO THYROID ANTAGONISTS
** R01HL-01813-25 Regulation of metabolism by drugs and hormones (rats)
P01HL-06314-17 0052 Immunologic mechanisms in cardiovascular disease - Role of cyclic nucleotides in neutrophil function (human)
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
** P01HL-17419-04 0006 Studies on mechanisms of hemostasis - Effect of hormones, drugs and other agents on fibrinogen synthesis (chick)
R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
R01HL-22562-02 Mechanism of cardiac action potential propagation (tunicates)

DRUGS, BLOOD(PLASMA) LEVEL
SEE DRUGS, PHARMACOLOGY, BIOAVAILABILITY

DRUGS, CHEMOTHERAPY
SEE ALSO BILIARY TRACT DISORDERS CHEMOTHERAPY
SEE ALSO BLOOD AND RE DISORDERS CHEMOTHERAPY
SEE ALSO CARDIOVASCULAR DISORDERS CHEMOTHERAPY
SEE ALSO COMMUNICABLE DISEASES CHEMOTHERAPY
SEE ALSO CONNECTIVE TISSUE DISORDERS CHEMOTHERAPY
SEE ALSO DOSAGE AND ROUTE, RATE AND DURATION OF ADMINISTRATION
SEE ALSO DRUGS, PHARMACOLOGY
SEE ALSO DRUGS, PHARMACOLOGY, BIOAVAILABILITY
SEE ALSO ENDOCRINOLOGY, ENDOCRINE DISORDERS CHEMOTHERAPY
SEE ALSO ENZYME THERAPY
SEE ALSO EYE DISORDERS CHEMOTHERAPY
SEE ALSO GASTROINTESTINAL DISORDERS CHEMOTHERAPY
SEE ALSO HEART DISORDERS CHEMOTHERAPY
SEE ALSO IMMUNOPATHOLOGY, CHEMOTHERAPY
SEE ALSO IRON CHELATION THERAPY
SEE ALSO KIDNEY DISORDERS CHEMOTHERAPY
SEE ALSO LIVER DISORDERS CHEMOTHERAPY
SEE ALSO METABOLIC DISORDERS CHEMOTHERAPY
SEE ALSO MUSCULAR DISORDERS CHEMOTHERAPY
SEE ALSO NEOPLASTIC THERAPY, CANCER CHEMOTHERAPY
SEE ALSO NERVOUS DISORDERS CHEMOTHERAPY
SEE ALSO NEUROMOTOR DISORDERS CHEMOTHERAPY
SEE ALSO NUTRITIONAL DISORDERS CHEMOTHERAPY
SEE ALSO PREGNANCY, EMBRYO-FETUS CHEMOTHERAPY
SEE ALSO PREGNANCY DISORDERS CHEMOTHERAPY
SEE ALSO PSYCHOLOGY ABNORMAL, MENTAL DISORDERS CHEMOTHERAPY
SEE ALSO REPRODUCTIVE SYSTEM DISORDERS CHEMOTHERAPY
SEE ALSO RESPIRATORY DISORDERS CHEMOTHERAPY
P50HL-21006-02 0002 Specialized center of research in arteriosclerosis - Turnover and metabolism of cholesterol in man
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons

DRUGS, CHEMOTHERAPY, DRUGS COMBINATION
R01HL-04666-19 Artificially paced hearts–Technology, physiology (human, dogs)
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
P01HL-06664-17 0034 Cardiopulmonary function in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
P01HL-07896-15 0056 Environmental biomedical research program - Neuromuscular blocking effects of nondepolarizing muscular relaxants (frogs)
** P01HL-07896-15 0057 Environmental biomedical research program - Effects of dipyridamole and aspirin on decompression thrombocytopenia (human)
R01HL-10711-12 Cooperative study of treatment of hypertension (human)
P01HL-12738-10 0111 Physiologic pharmacology and its clinical applications - Cardiovascular pharmacology (dogs)
P01HL-12738-10 0133 Physiologic pharmacology and its clinical applications - Pharmacologic antagonism of beta-adrenergic blockade (dogs)
P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immune response (dogs)
R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
P50HL-14237-07 0006 Support for arteriosclerosis center - Drug treatment of familial hyperbetalipoproteinemia (human)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)
R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
R01HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
P01HL-17417-05 0004 Experimental lung transplantation - Methods for suppressing lung allograft rejection (dogs, mice)
P50HL-17655-04 0001 Study of ischemic heart disease - Intravenous nitroglycerin–Ventricular function and infarct size (human, dog)
R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
P50HL-18323-04 0043 SCOR hypertension center - Pharmacology–Renin-aldosterone mechanisms in essential hypertension (human)
P50HL-19170-02 0007 Harvard pulmonary SCOR–Chronic diseases of the airways - Therapy effect on airway obstruction in acute asthma (human)
P01HL-19717-02 0040 Response of the lung to injury - Immunosuppressive drugs in usual interstitial pneumonia (human)
R01HL-19818-02 Endocarditis on prosthetic heart valves (rabbits, human)
R01HL-19937-02 Vasodilators in experimental myocardial infarction (dogs)
R01HL-20016-03 Chelator development for thalassemia (human, mice, rats, dogs, monkeys)
P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
R01HL-20604-03 Sympathectomy–Cardiovascular and molecular pharmacology (animals)
R01HL-20685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)
R01HL-20963-01 Experimental lung abscess (rabbits)
P01HL-20993-02 0005 Population dynamics of arterial cells in atherogenesis - Drugs other than hypolipidemic drugs affecting atherosclerosis (swine, rabbits)
R01HL-22040-01 Regulation of lysyl-cross-linking in vascular tissue (rats, turkeys)
R23HL-22895-01 Smoke inhalation–Biochemical and cellular responses (rabbits, bacteria)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

DRUGS, CHEMOTHERAPY, SELF MEDICATION

R25HL-18406-03 Adherence to hypertensive medical regimens (human)
R25HL-18414-03 Hypertension-Family strategies for patient adherence
R25HL-18418-03 Role of a supporting partner in adherence (human)
R25HL-18424-03 Blood pressure education in an industrial setting (human)
R01HL-19946-03 Reduction of iron overload in thalassemia (children, rabbits, dogs, monkeys)
N01HR-72972-01 Self-management for asthmatic children

DRUGS, GASTROINTESTINAL ABSORPTION

SEE GASTROINTESTINAL FUNCTION, ABSORPTION-TRANSPORT, DRUGS

DRUGS, PHARMACOLOGY

SEE ALSO BILIARY TRACT PHARMACOLOGY
SEE ALSO BLOOD AND RE SYSTEM PHARMACOLOGY
SEE ALSO CARDIOVASCULAR PHARMACOLOGY
SEE ALSO CHEMICAL STRUCTURE--BIOLOGICAL ACTIVITY
SEE ALSO CONNECTIVE TISSUE PHARMACOLOGY
SEE ALSO DRUGS, CHEMOTHERAPY
SEE ALSO DRUGS AND PHYSICAL AND/OR CHEMICAL AGENTS INTERACTION
SEE ALSO ENDOCRINE PHARMACOLOGY
SEE ALSO GASTROINTESTINAL PHARMACOLOGY
SEE ALSO GENETICS, PHARMACOGENETICS*
SEE ALSO IMMUNOPHARMACOLOGY
SEE ALSO KIDNEY PHARMACOLOGY
SEE ALSO LIVER PHARMACOLOGY
SEE ALSO MUSCLE PHARMACOLOGY
SEE ALSO NEUROPHARMACOLOGY
SEE ALSO PHARMACOLOGY STUDY SECTION
SEE ALSO PHYSICAL AND/OR CHEMICAL AGENTS INTERACTION (BIOLOGICAL AND ECOLOGICAL)
SEE ALSO PREGNANCY, EMBRYO-FETUS PHARMACOLOGY
SEE ALSO PSYCHOPHARMACOLOGY
SEE ALSO RADIOPHARMACOLOGY
SEE ALSO REPRODUCTIVE SYSTEM PHARMACOLOGY
SEE ALSO RESPIRATORY SYSTEM PHARMACOLOGY

R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
P01HL-06664-17 0040 Cardiopulmonary function in remediable vascular disease - The coupling of ion transport to metabolism (toads)
R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-13349-06 Analysis of activation process in heart muscle (guinea pigs, rabbits, human)
R01HL-13587-06 Synthesis of renin inhibitors and analog phosphatides (rats)
R23HL-19573-01 Studies on pulmonary serotonin (mice)
** R01HL-20909-02 Clofibrate-enhanced lipid oxidation by peroxisomes (rats)
P01HL-21016-02 0011 Sickle cell anemia and other hemoglobinopathies - Metabolic effects of anti-sickling agents (hamsters)
R01HL-22137-02 Structure-function pathology of isolated heart cells (mice, rats)

DRUGS, PHARMACOLOGY, BIOAVAILABILITY

SEE ALSO DOSAGE AND ROUTE, RATE AND DURATION OF ADMINISTRATION
SEE ALSO GASTROINTESTINAL FUNCTION, ABSORPTION-TRANSPORT, DRUGS

P60HL-15169-05 0018 Support for center for sickle cell disease - Studies on sickle cell disease (human, rats, dogs)
R01HL-18003-05 Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)
P01HL-19242-02 0008 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (rats)
R01HL-19898-03 Desferrioxamine therapy in thalassemia (dogs, rats, children)
R01HL-21052-01 Evaluation of a digitalis therapy advisor
** R01HL-21105-02 Organ specific drugs--Cardiovascular and renal effects (dogs)
** R23HL-21151-02 Ischemic myocardium--Delivery of blood flow and drugs (dogs)
R01HL-21221-02 Clinical antiarrhythmic and pharmacodynamic studies
R01HL-21476-02 Anticoagulant drug absorption interactions (rats)
R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)
R01HL-22417-01 Microprocessors in medical applications (dogs)
** R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)
** R23HL-22882-01 Modulation by disease of effect of furosemide in man
R01HL-23726-01 Treatment of ventricular arrhythmias with propranolol (human)

DRUGS, PHARMACOLOGY, BIOCHEMICAL

SEE ALSO CHEMICAL STRUCTURE-BIOLOGICAL ACTIVITY
SEE ALSO DRUGS RECEPTORS

** R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
** P01HL-06285-18 0186 Cardiovascular respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06312-17 0030 Surgical cardiology Total artificial heart (calves)
P01HL-06350-17 0019 Hemostasis research program project - Microcirculation (human, rats, rabbits)
P01HL-06835-17 0030 Cardiovascular disease Synthesis and pharmacology of angiotensin antagonists (rats, cats)
** P01HL-06835-17 0031 Cardiovascular disease - Synthesis of potent antagonist of pressor action of angiotensin II (animals)
P01HL-06835-17 0032 Cardiovascular disease - Synthesis of angiotensin II as inhibitors for aldosterone
** P01HL-06835-17 0033 Cardiovascular disease - Structure-activity relationship of angiotensin II analogs (rats)
** P01HL-06835-17 0037 Cardiovascular disease - Cardiac hypertrophy in spontaneously hypertensive rat
** P01HL-06835-17 0038 Cardiovascular disease - Effect of chronic administration of angiotensin antagonist (rats)
** P01HL-06835-17 0055 Cardiovascular disease - Vascular and adrenocortical response to angiotensin II (dogs)
** P01HL-06835-17 0056 Cardiovascular disease - Angiotensin analogs--Sarcosine on arterial pressure, aldosterone (dogs)
P01HL-06835-17 0057 Cardiovascular disease - Studies on cardiac hypertrophy
R01HL-07502-13 Phytochemistry of the genus thalictrum (dogs, plants)
P01HL-08899-14 0062 Tolerance to respiratory gases in health and disease - Influence of oxygen at high pressure upon oxidation (rats)
R01HL-10608-12 Digoxin-specific antibodies (human)
R01HL-11154-12 Blood group antigens and antibodies (human)
P01HL-11310-12 0092 Mechanisms of cardiovascular disease - Exercise electrophysiology (human)
P01HL-11310-12 0102 Mechanisms of cardiovascular disease - Cardiac membrane and ion mobility (dogs)
** P01HL-11310-12 0103 Mechanisms of cardiovascular disease - Heparin--Metabolism and function
** P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
P01HL-12373-10 0018 Cardiopulmonary physiology and pathophysiology - Biochemistry laboratory
** R01HL-12647-08 Inactivation of norepinephrine in vascular tissue
R01HL-12648-09 Catecholamine metabolism in hypertensive diseases (human)
** P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotherapeutic drugs and cardiovascular system (human, rats)
P01HL-12738-10 0107 Physiologic pharmacology and its clinical applications - Blood superfused cardiac fibers (dogs)
P01HL-12738-10 0110 Physiologic pharmacology and its clinical applications - Physiology and pharmacology of arrhythmias (dogs)
P01HL-12738-10 0129 Physiologic pharmacology and its clinical applications - Receptor specificities and metabolism of vasopressin analogs
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
R01HL-13989-05 Role of water in respiratory protein structure
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
P01HL-14388-07 0190 Regulation of the circulation in pathological states - Mechanisms of the renal actions of aldosterone (rats)
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
R01HL-14775-08 Mechanisms of drug action in vascular smooth muscle (dog, rabbits)
R01HL-14847-07 Mechanism of action of vitamin K and anticoagulants (rats)
R01HL-14992-07 Mechanism of thrombin action (human)
** R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
** P60HL-15157-07 0011 Comprehensive center for sickle cell disease Development of specific anti-sickling compound (human)
** P60HL-15160-07 0008 Center for sickle cell disease Isocyanate derivatives and hemoglobin S association (human, rat)
P60HL-15162-07 0020 Comprehensive sickle cell center Biophysical studies of normal and sickle red cells (human)
P60HL-15170-05 0017 Support for center for sickle cell anemia - Control of hemoglobulin synthesis (human)
** R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
** R01HL-16240-05 The cardiac histamine receptor (rabbits, guinea pigs)
R01HL-16375-04 Investigation of hemoglobin S properties (human)
R01HL-16931-04 Red cell storage and transfusion (human, animals)
R01HL-16955-05 Heparin, blood coagulation and lipid metabolism (human)
** P60HL-17269-04 0022 National heart and blood vessel research and demonstration center - Medicinal chemistry (rabbit, dog, guinea pig)
R01HL-17341-03 Practical total synthesis of prostaglandins
** R01HL-17555-05 Distribution and metabolism of labeled digitaloids (dogs, guinea pigs)
P50HL-17670-04 0011 Study of ischemic heart disease - Pharmacology of ischemic myocardium (dogs)
R01HL-17796-04 Importance of aminosugars in digitalis activity (cats, rabbits)
** R01HL-18068-02 Chemistry and activity of homologous heparin fractions (rodents)
R01HL-18185-04 Cardiac glycosides and diuretics--Role of NaO pump (dogs)
R01HL-18259-03 Controlled intratissue release of prostaglandins
** R01HL-18887-03 Hypolipidemic drugs--Effects on FFA-albumin association (human, cattle)
** P01HL-19259-03 0004 Digoxin-specific antibody in human therapy - Digitalis-specific antibodies pharmacological studies (human, dogs, sheep)
R01HL-19772-02 Role of warfarin metabolism in antivitamin K activity (rats)
** R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)
** R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R01HL-20859-02 Beta adrenergic catecholamine receptor
P60HL-20985-01 0006 Northern California sickle cell center - Antisickling properties of imidoesters (human, rats)
P01HL-21016-02 0008 Sickle cell anemia and other hemoglobinopathies - The clinical variations of sickle cell anemia
** P01HL-21016-02 0010 Sickle cell anemia and other hemoglobinopathies - Alkylureas as potential anti-sickling agents
R01HL-21052-01 Evaluation of a digitalis therapy advisor
** R23HL-21083-02 Pharmacokinetics of digoxin and digitoxin in humans (rats)
R23HL-21129-02 The antisickling effects of imidoesters
** R01HL-21221-02 Clinical antiarrhythmic and pharmacodynamic studies
R23HL-21327-02 Molecular mechanisms of chemical myocardiopathies (rats)
** R01HL-21817-01 Catecholamines, blood pressure and circulation
** R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
** R01HL-22035-01 Molecular modification of heparin by chemical means (sheep)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease
** R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase
R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors
R01HL-22685-01 Drugs and excitation-contraction coupling in heart (animals)
** R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)
** R01HL-22780-01 Factors modifying the reaction properties of HgS (human)
** R23HL-22882-01 Modulation by disease of effect of furosemide in man
R01HL-22896-01 Immediate metabolic fates of kinins and angiotensins (rat, rabbit, guinea pig)
** R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-23726-01 Treatment of ventricular arrhythmias with propranolol (human)
R01HL-23980-01 Effects of digoxin therapy in newborn and adult sheep

DRUGS, PHARMACOLOGY, STIMULATION, CHEMICAL

P01HL-08805-15 0046 Regulation of ventilation and pulmonary circulation - Sites and modes of interaction of peripheral and central chemoreceptors
P01HL-12738-10 0111 Physiologic pharmacology and its clinical applications - Cardiovascular pharmacology (dogs)
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
** R01HL-18731-02 RES stimulating materials in experimental shock (dogs)
** R23HL-21369-02 Tracheal mucin synthesis in experimental bronchitis (rats)
R23HL-21990-01 Accuracy of the ventilatory response to exercise (dogs)
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)

DRUGS, SLOW RELEASE PREPARATIONS

SEE ALSO DRUGS, PHARMACOLOGY, BIOAVAILABILITY
R01HL-19898-03 Desferrioxamine therapy in thalassemia (dogs, rats, children)
R01HL-19961-03 Management of hemosiderosis in thalassemia (children, adults)
** R01HL-22888-01 Prosthetic valve endocarditis--Etiology and therapy (dogs)

DRUGS ABUSE

SEE ALSO PSYCHOLOGY, HABITS, SMOKING
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)

DRUGS ABUSE, OVERDOSE

P01HL-08805-15 0047 Regulation of ventilation and pulmonary circulation - Extracranial metabolic control of ventilation (dogs, goats)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs

DRUGS ADVERSE EFFECTS

SEE ALSO DISEASES, COMPLICATIONS, ANESTHESIA RELATED
SEE ALSO DOSAGE AND ROUTE, RATE AND DURATION OF ADMINISTRATION
SEE ALSO DRUGS, PHARMACOLOGY, BIOAVAILABILITY
SEE ALSO DRUGS HYPERSENSITIVITY
SEE ALSO NEOPLASMS, DRUG INDUCED
SEE ALSO PREGNANCY, EMBRYO-FETUS DRUGS ADVERSE EFFECTS
R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)
R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
R01HL-04512-19 Ultrastructural studies of capillary permeability (rats, mice)
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
** R01HL-10608-12 Digoxin-specific antibodies (human)
** R01HL-12557-09 Effects of steroids and pregnancy on arteries and veins (guinea pigs)
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
** P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotherapeutic drugs and cardiovascular system (human, rats)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
P01HL-12738-10 0107 Physiologic pharmacology and its clinical applications - Blood superfused cardiac fibers (dogs)
R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
** R01HL-14127-16 Methemoglobinemia and antihypertensive drugs (cats, mice, rats)
P50HL-14236-05 0010 Prevention of premature arteriosclerosis - Computer programs
P50HL-14237-07 0006 Support for arteriosclerosis center - Drug treatment of familial hyperbetalipoproteinemia (human)
P01HL-14388-07 0234 Regulation of the circulation in pathological states - Effects of antiarrhythmic drugs on the autonomic system (dogs)
P60HL-15169-05 0018 Support for center for sickle cell disease - Studies on sickle cell disease (human, rats, dogs)
P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
R01HL-15526-05 Respiratory mechanics in children
P01HL-15832-06 0011 Chemical-structural predispositions to lung injury - Interaction of cell receptors with vasoactive agents in pulmonary vascular bed
P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
** R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
R01HL-16587-04 Cholesterol binding saponins and atherosclerosis (monkeys)
R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
R01HL-17451-05 Digitalis effects on cardiac automaticity mechanisms
** R01HL-17555-05 Distribution and metabolism of labeled digitaloids (dogs, guinea pigs)
R01HL-17724-03 Oral contraceptives and hypertension (rats)
R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
** R01HL-18003-05 Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)
R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
R01HL-18163-04 Red cell membrane effects due to oxidizing agents
R01HL-18175-03 Drug taking for hypertension in a rural community
R01HL-18598-03 Role of Na, K-ATPase inhibition on digitalis action
P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
** R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)
R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
M P01HL-19259-03 Digoxin-specific antibody in human therapy
** P01HL-19259-03 0001 Digoxin-specific antibody in human therapy - Primary structure of monoclonal antibodies (rabbits)
** P01HL-19259-03 0004 Digoxin-specific antibody in human therapy - Digitalis-specific antibodies pharmacological studies (human, dogs, sheep)
R01HL-19487-03 Cardiac actions of digitalis (dogs, cats)
P01HL-19717-02 0008 Response of the lung to injury - Experimental models of lung disease
R01HL-19720-03 Evaluation of anti-fibrotic agents in pulmonary fibrosis (rats)
R01HL-19898-03 Desferrioxamine therapy in thalassemia (dogs, rats, children)
R01HL-20000-03 Iron overload in homozygous beta thalassemia (human)
R01HL-20211-02 Role of taurine in the heart (dogs, rats, mice)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
** R01HL-20572-02 0007 Hemodynamic relations to metabolism in hypertension - Drug effects on cardiac function and hypertropy (rats)
R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)
R01HL-20754-02 Anesthetic-induced myocardial depression (rabbits)
R01HL-20856-02 Platelet transfusions--Usage and complications (human)
R01HL-21052-01 Evaluation of a digitalis therapy advisor
R23HL-21083-02 Pharmacokinetics of digoxin and digitoxin in humans (rats)
R23HL-21196-02 Digitalis induced arrhythmia and NAD K0-atpase activity (dogs)
** R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)
R01HL-21221-02 Clinical antiarrhythmic and pharmacodynamic studies
R01HL-21308-01 Prostaglandins and local control of the circulation (rats, dogs)
R23HL-21327-02 Molecular mechanisms of chemical myocardiopathies (rats)
R01HL-21533-02 Platelet inhibitor drug in coronary surgery (human)
R01HL-21540-02 Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs)
R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)
R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
** R23HL-21997-01 Pulmonary immunopathology in the compromised host (guinea pigs)
R01HL-22201-01 Pharmacology and chemistry of nudibranch toxins (guinea pigs, rats, mice)
R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)
P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R01HL-22748-01 Effect of bile sequestration on VLDL metabolism (human)
R01HL-22750-01 Digoxin in heart failure with sinus rhythm (human)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)
N01HV-12434-11 Therapy for hypertension in the general population
N01HV-12436-15 Hypertension therapy in the general population (human)
N01HV-12442-14 Therapy for hypertension in the general population (human)
N01HV-22931-14 Therapy for hypertension in general population
N01HV-22937-07 Therapy for hypertension in general population
N01HV-22938-11 Therapy for hypertension in general population
** N01HV-62900-00 Study of breast cancer and reserpine use (human)
N01HV-72931-02 Non-invasive detection of atherosclerotic lesions (human, dogs)
N01HV-82915-01 Therapy for hypertension in the general population (human)

DRUGS ADVERSE EFFECTS EMBRYO-FETAL

SEE PREGNANCY, EMBRYO-FETUS DRUGS ADVERSE EFFECTS

DRUGS AND PHYSICAL AND/OR CHEMICAL AGENTS INTERACTION

SEE ALSO DRUGS INTERACTION
** P01HL-11310-12 0103 Mechanisms of cardiovascular disease - Heparin--Metabolism and function
** R01HL-16549-04 Cardiotonic steroid-NaK ATPase interactions (cattle)
R01HL-20996-02 Structural and reactivity of iron and cobalt complexes
N01HV-72943-01 Prostaglandin and kallikrein kinin system antagonists
N01HV-72944-02 Prostaglandin and kallikrein kinin antagonists
N01HV-72945-03 Develop prostaglandin synthesis and receptor antagonists
N01HV-72946-02 Development of kallikrein--Kinin system antagonists

DRUGS COMBINATION

SEE DRUGS, CHEMOTHERAPY, DRUGS COMBINATION

DRUGS DEPENDENCY

SEE DRUGS ABUSE

DRUGS HYPERSENSITIVITY

** P50HL-14153-07 0012 Johns Hopkins Lung Center--Chronic diseases of airways - Aspirin intolerance in reversible lung disease (human)
R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
R01HL-16611-04 Digitalis-receptor of the heart (guinea pigs, rats)
P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
** R01HL-20184-02 Desensitization of tracheal muscle to isoproterenol (rats, rabbits)

DRUGS INTERACTION

SEE ALSO DRUGS, CHEMOTHERAPY, DRUGS COMBINATION
SEE ALSO DRUGS AND PHYSICAL AND/OR CHEMICAL AGENTS INTERACTION
R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
** P01HL-06835-17 0031 Cardiovascular disease - Synthesis of potent antagonist of pressor action of angiotensin II (animals)
P01HL-06835-17 0033 Cardiovascular disease - Structure-activity relationship of angiotensin II analogs (rats)
P01HL-06835-17 0055 Cardiovascular disease - Vascular and adrenocortical response to angiotensin II (dogs)
P01HL-07896-15 0056 Environmental biomedical research program - Neuromuscular blocking effects of nondepolarizing muscular relaxants (frogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease Cardiovascular pharmacology (dog)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
** P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotherapeutic drugs and cardiovascular system (human, rats)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
P50HL-14217-08 0061 Specialized center of research in thrombosis Pharmacology--Comparison of platelets and vascular smooth muscle (animal)
R01HL-14775-08 Mechanisms of drug action in vascular smooth muscle (dog, rabbits)
R01HL-14832-06 Myocardial cells- Autonomic and rhythmic mechanisms (chick embryo, rats)
R01HL-14847-07 Mechanism of action of vitamin K and anticoagulants (rats)
R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
** R01HL-15758-06 Catecholamine release in the heart (dogs)
R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
P01HL-17419-04 0006 Studies on mechanisms of hemostasis - Effect of hormones, drugs and other agents on fibrinogen synthesis (chick)
R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
R01HL-18175-03 Drug taking for hypertension in a rural community
R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
R01HL-20199-02 Drug-induced alterations in infarct size in the rat
R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)
R01HL-20685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-21308-01 Prostaglandins and local control of the circulation (rats, dogs)
** R01HL-21476-02 Anticoagulant drug absorption interactions (rats)
R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
** R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)

DRUGS OVERDOSE

SEE DRUGS ABUSE, OVERDOSE

DRUGS RECEPTORS

SEE ALSO ENDOCRINOLOGY, HORMONE RECEPTORS
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
P01HL-06835-17 0055 Cardiovascular disease - Vascular and adrenocortical response to angiotensin II (dogs)
P01HL-06835-17 0056 Cardiovascular disease - Angiotensin analogs--Sarcosine on arterial pressure, aldosterone (dogs)
R01HL-10608-12 Digoxin-specific antibodies (human)
** P01HL-12738-10 0129 Physiologic pharmacology and its clinical applications - Receptor specificities and metabolism of vasopressin analogs
R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
R01HL-13909-27 Physiochemistry and immunology of macromolecules
P50HL-14217-08 0061 Specialized center of research in thrombosis - Pharmacology--Comparison of platelets and vascular smooth muscle (animal)
P60HL-15157-07 0011 Comprehensive center for sickle cell disease - Development of specific anti-sickling compound (human)
P60HL-15162-07 0020 Comprehensive sickle cell center - Biophysical studies of normal and sickle red cells (human)
** P01HL-15832-06 0011 Chemical-structural predispositions to lung injury - Interaction of cell receptors with vasoactive agents in pulmonary vascular bed
R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
** R01HL-16240-05 The cardiac histamine receptor (rabbits, guinea pigs)
R01HL-16549-04 Cardiotonic steroid-NaK ATPase interactions (cattle)
** R01HL-16611-04 Digitalis-receptor of the heart (guinea pigs, rats)
** R01HL-17879-04 Molecular structure of the ouabain sensitive ATPase (dogs)
R01HL-18003-05 Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)
R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
R01HL-18185-04 Cardiac glycosides and diuretics- Role of NaO pump (dogs)
R01HL-18936-02 Heart preservation and transplantation studies (rat)
P01HL-19242-02 0008 Study of vascular smooth muscle NE release in and reactivity of vascular smooth muscle (rats)
R01HL-19995-02 Sensory transduction in cardiac mechanoreceptors (cats, frogs, rats)
R01HL-20262-02 Cardiac glycosides and the mechanism of the sodium-potassium pump
R01HL-20787-02 Thromboxanes and prostaglandins Biochemical pharmacology (rabbits, human)
** P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
R01HL-21457-01 C(17)-side group geometry and cardenolide activity (cats, guinea pigs)
R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
** R01HL-22079-01 Heart receptor sites for digitalis and steroid hormones (animals)
R01HL-22174-01 Assembly of membranes in heart and yeast mitochondria
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
R23HL-22245-02 Functional characteristics of atrial receptors (rats)

DRUGS RESISTANCE

P01HL-06308-18 0029 Mechanisms and therapy of circulatory disease - Characterization of the patient with recurrent ventricular arrhythmias

DRUGS RESISTANCE, MICROBIAL

SEE ALSO GENETICS, MICROBIAL
R01HL-19818-02 Endocarditis on prosthetic heart valves (rabbits, human)
R01HL-20963-01 Experimental lung abscess (rabbits)

DRUGS SCREENING

P01HL-06664-17 0036 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
R01HL-07502-13 Phytochemistry of the genus thalictrum (dogs, plants)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
** R01HL-12971-15 Reactions of alkoloids and their analogs
R01HL-14847-07 Mechanism of action of vitamin K and anticoagulants (rats)
P60HL-15157-07 0011 Comprehensive center for sickle cell disease - Development of specific anti-sickling compound (human)
P60HL-15160-07 0008 Center for sickle cell disease - Isocyanate derivatives and hemoglobin S association (human, rat)
P60HL-15160-07 0011 Center for sickle cell disease - Study of human sickle cells in an animal model (rats)
** R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)
R01HL-17796-04 Importance of aminosugars in digitalis activity (cats, rabbits)
R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
P01HL-18576-03 0012 Thrombosis research program project - Synthetic anticoagulant and thrombolytic agents (dogs)
** R01HL-19066-03 Synthesis and evaluation of prostaglandin metabolites (guinea pigs)
R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
** R01HL-20016-03 Chelator development for thalassemia (human, mice, rats, dogs, monkeys)
P01HL-20993-02 0005 Population dynamics of arterial cells in atherogenesis - Drugs other than hypolipidemic drugs affecting atherosclerosis (swine, rabbits)
** R01HL-21457-01 C(17)-side group geometry and cardenolide activity (cats, guinea pigs)
R01HL-22098-01 Is postoperative infarction due to reperfusion injury? (human, dogs)
R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease
R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors
P01HL-22619-01 9002 Cellular mechanisms of heart failure - Medicinal chemistry and clinical intervention
R01HL-22862-01 CNS-mediated effects of antiarrhythmic drugs (dogs)

DRUGS SYNTHESIS AND PRODUCTION

R01HL-02212-23 Coagulation of blood (human)
** P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
** P01HL-06835-17 0031 Cardiovascular disease - Synthesis of potent antagonist of pressor action of angiotensin II (animals)
** P01HL-06835-17 0032 Cardiovascular disease - Synthesis of angiotensin II as inhibitors for aldosterone
P01HL-11310-12 0103 Mechanisms of cardiovascular disease Heparin-Metabolism and function
R01HL-11418-09 Poly diaminophosphazenes
** P01HL-12738-10 0129 Physiologic pharmacology and its clinical applications Receptor specificities and metabolism of vasopressin analogs
R01HL-12740-10 Hypocholesterolemic agents Stereochemistry (rats)
** R01HL-12971-15 Reactions of alkoloids and their analogs
R01HL-14509-07 Hypertension Chemistry and biophysics of angiotensin
** P60HL-15157-07 0011 Comprehensive center for sickle cell disease Development of specific anti-sickling compound (human)
R01HL-15476-05 Mechanism and control of sterol biosynthesis (rats)
R01HL-16796-05 Cholesterol regulation by HMG-CoA reductase (rats, human)
P60HL-17269-04 0022 National heart and blood vessel research and demonstration center - Medicinal chemistry (rabbit, dog, guinea pig)
** R01HL-17341-03 Practical total synthesis of prostaglandins
R01HL-17552-03 Sickling inhibition by chemical modification of hemoglobin (human)
R01HL-17739-04 Acute myocardial infarct scintigraphy (human, dogs, rats)
** R01HL-17897-03 Synthesis of alpha and beta adrenergic antagonists
R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
** R01HL-18245-03 Transition state analog inhibitors of thrombin (human, cattle)
** P01HL-18576-03 0012 Thrombosis research program project - Synthetic anticoagulant and thrombolytic agents (dogs)
** R01HL-18679-04 Synthetic protease inhibitors
** R01HL-18744-03 Preparation of radiopharmaceuticals from drug analogs
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
** R01HL-18993-03 Biological investigations of substance P
** R01HL-19066-03 Synthesis and evaluation of prostaglandin metabolites (guinea pigs)
** R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
R01HL-19514-03 Proteinase inhibitor model with clinical potential
** R01HL-19538-03 Synthesis of potential antihypertensive agents
R01HL-19820-02 The chemistry and biological effects of heparin (Rhesus, human, other mammals)
R01HL-19898-03 Desferrioxamine therapy in thalassemia (dogs, rats, children)
R01HL-20016-03 Chelator development for thalassemia (human, mice, rats, dogs, monkeys)
** R01HL-20579-02 Synthesis of therapeutically important alkaloids
** R01HL-21367-02 Polyether ionophores--Synthesis of X537A and analogs
** R01HL-21457-01 C(17)-side group geometry and cardenolide activity (cats, guinea pigs)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
** R01HL-22035-01 Molecular modification of heparin by chemical means (sheep)
R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease
R01HL-22522-01 Cardioselectivity of beta-adrenoceptor antagonists
** R01HL-22532-01 Inhibitors of cholesterol biosynthesis (rats, mice, yeast)
R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors
** R01HL-22612-01 Stabilized prostacyclins to treat vascular disease
P01HL-22619-01 9002 Cellular mechanisms of heart failure - Medicinal chemistry and clinical intervention
** R01HL-22778-01 Total synthesis of natural cardiotonic ionophores
R01HL-23183-01 Voltage dependent conductance in membranes

DRUGS TACHYPHYLAXIS

SEE ALSO DRUGS TOLERANCE
P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotherapeutic drugs and cardiovascular system (human, rats)
P50HL-14153-07 0014 Johns Hopkins Lung Center--Chronic diseases of airways - Mediator release in asthma (human)
** P01HL-19242-02 0008 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (rats)
R01HL-19653-03 Circulatory system effects of angiotensin analogs (rats)
R01HL-20184-02 Desensitization of tracheal muscle to isoproterenol (rats, rabbits)
** R01HL-20685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-20783-02 Airway reactivity–B-adrenoceptors and prostaglandins (guinea pigs)

DRUGS TOLERANCE
SEE ALSO DRUGS TACHYPHYLAXIS
P01HL-14388-07 0168 Regulation of the circulation in pathological states - Ionic basis of depolarization (rats, tissue culture)
R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)

DRUGS TOXICOLOGY
SEE DRUGS ADVERSE EFFECTS

DRUGS VEHICLES
SEE ALSO DRUGS, PHARMACOLOGY, BIOAVAILABILITY
R01HL-19647-03 Therapeutic aerosols
R01HL-19700-03 Deposition of hygroscopic aerosols (models)
R01HL-19715-02 Respiratory tract deposition of hygroscopic aerosols (dogs, human)
R01HL-19722-03 Aerosol growth in the respiratory system (models)
R01HL-20024-03 Therapeutic aerosols–Characteristics and retention (human, dogs)
** R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)

DRUGS WITHDRAWAL (SYMPTOMS)
** R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)

DSR
SEE RADIOGRAPHY, SCANNING, DSR

DT-DIAPHORASE
SEE OXIDOREDUCTASES, NAD(P)H DEHYDROGENASE (QUINONE)

DUCTUS ARTERIOSUS EMBRYONIC
SEE CARDIOVASCULAR SYSTEM, DUCTUS ARTERIOSUS EMBRYONIC

DUCTUS ARTERIOSUS PATENT
SEE CONGENITAL ABNORMALITIES, CARDIOVASCULAR SHUNTS ABNORMAL, PATENT DUCTUS

DUODENAL ULCER
SEE GASTROINTESTINAL DISORDERS, DUODENAL, DUODENAL ULCER

DURATION OF TREATMENT
SEE DOSAGE AND ROUTE, RATE AND DURATION OF ADMINISTRATION

DUST
SEE PHYSICAL PROPERTIES, PARTICLES, DUST

DWARF CHIMPANZEE
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), GREAT APES (PONGIDS), PAN (CHIMPANZEE)*

DWARFISM
SEE SKELETAL DISORDERS, BONE DEVELOPMENT, DWARFISM

DYES
SEE ALSO ACRIDINES
SEE ALSO AZO (AZINO) COMPOUNDS
SEE ALSO BENZOFURANONES, PHTHALIDES, BROMSULPHTHALEIN
SEE ALSO BENZOPYRANS, XANTHENES, FLUORESCEINS
SEE ALSO BENZOPYRROLES, INDOCYANINE GREEN
SEE ALSO CYANINE
SEE ALSO MEROCYANINES
R01HL-14826-05 External isotope assay of atherosclerosis (rats, rabbits)
** R01HL-17702-04 Electro-optical dyes as probes of heart excitability

DYES, FLUORESCENT DYES AND PROBES
SEE ALSO IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOFLUORESCENCE*
SEE ALSO RADIOFLUORESCENT PROBES
R01HL-15648-06 Lipid metabolism–Transport by lateral diffusion (human, rabbit, cattle)
** P01HL-16117-05 0004 Ion movements and membranes in cardiovascular control - Optical studies of excitation-contraction coupling (frogs, snakes)
P01HL-16683-04 0003 Function and growth of cardiac and skeletal muscle - Movements of S-1 moieties in muscle fibers
R01HL-16828-04 Gradient and transport of oxygen in tissue and organs (mammals)
P01HL-17421-05 0001 Regulation and exchange in the microcirculation - Mass transfer and microcirculatory function (rats)
** P01HL-17421-05 0007 Regulation and exchange in the microcirculation - Core facilities–Fluorometric measurement methods for microcirculation
** R01HL-20254-02 Probes of heart and nerve membranes--Fluorescent dyes
R01HL-22402-01 Heparin-biophysical, chemical and biological aspects (mice, human)

DYNAMIC SPATIAL RECONSTRUCTOR
SEE RADIOGRAPHY, SCANNING, DSR

DYSAUTONOMIA FAMILIAL
SEE CONGENITAL ABNORMALITIES, NEUROLOGICAL, DYSAUTONOMIA FAMILIAL

DYSBARISM
SEE INJURIES, DYSBARISM

DYSKINESIA
SEE NEUROMOTOR DISORDERS

DYSLIPOPROTEINEMIAS
SEE LIPOPROTEINS BLOOD, DYSLIPOPROTEINEMIAS

DYSPNEA
SEE RESPIRATORY DISORDERS, DYSPNEA

DYSPROTEINEMIAS ACQUIRED
SEE BLOOD PROTEINS DISORDERS

DYSPROTEINEMIAS CONGENITAL
SEE BLOOD PROTEINS DISORDERS CONGENITAL

DYSTROPHIA MYOTONICA
SEE METABOLIC DISORDERS INBORN, MYOTONIA ATROPHICA

EAR, HEARING, AUDITORY THRESHOLD
P01HL-07896-15 0008 Environmental biomedical research program - Otologic studies under hyperbaric conditions (human, animals)

EAR, HEARING, COCHLEAR MICROPHONICS
P01HL-07896-15 0008 Environmental biomedical research program - Otologic studies under hyperbaric conditions (human, animals)
P01HL-08899-14 0052 Tolerance to respiratory gases in health and disease - Oxygen effects on auditory and vestibular function (human, guinea pigs)

EAR, LABYRINTH
P01HL-08899-14 0052 Tolerance to respiratory gases in health and disease - Oxygen effects on auditory and vestibular function (human, guinea pigs)

EAR, LABYRINTH, COCHLEA
P01HL-07896-15 0008 Environmental biomedical research program - Otologic studies under hyperbaric conditions (human, animals)

EAR, LABYRINTH, VESTIBULAR APPARATUS
P01HL-07896-15 0008 Environmental biomedical research program - Otologic studies under hyperbaric conditions (human, animals)
P01HL-08899-14 0078 Tolerance to respiratory gases in health and disease - Isobaric gas counterdiffusion--Sensory, cutaneous and systemic function (animals)
P01HL-08899-14 0085 Tolerance to respiratory gases in health and disease - Search for gas bubbles in vestibular fluids (animals)

EAR, LABYRINTH, VESTIBULAR REFLEX
** P01HL-08899-14 0052 Tolerance to respiratory gases in health and disease - Oxygen effects on auditory and vestibular function (human, guinea pigs)
** P01HL-14388-07 0184 Regulation of the circulation in pathological states - Vestibular reflexes in control of circulation (human)

EAR, LABYRINTHINE FLUIDS
** P01HL-08899-14 0085 Tolerance to respiratory gases in health and disease - Search for gas bubbles in vestibular fluids (animals)

EAR, LABYRINTHINE FLUIDS, ENDOLYMPH
P01HL-08899-14 0052 Tolerance to respiratory gases in health and disease - Oxygen effects on auditory and vestibular function (human, guinea pigs)

EAR DISORDERS, HEARING DISORDERS
** P01HL-07896-15 0008 Environmental biomedical research program - Otologic studies under hyperbaric conditions (human, animals)

EAR DISORDERS, MIDDLE EAR DISORDERS
** P01HL-07896-15 0008 Environmental biomedical research program - Otologic studies under hyperbaric conditions (human, animals)

EAR DISORDERS, MIDDLE EAR DISORDERS, OTITIS MEDIA
R01HL-14271-07 Physico-chemical properties of tracheal mucus (dogs, frogs)

EAR DISORDERS DIAGNOSIS, HEARING TESTS, AUDIOMETRY*
P01HL-08899-14 0052 Tolerance to respiratory gases in health and disease - Oxygen effects on auditory and vestibular function (human, guinea pigs)

EARLY CHILDHOOD
SEE CHILDREN, PRESCHOOL (1 TO 6 YRS)

EARLY DIAGNOSIS
SEE DIAGNOSTIC TESTS, EARLY DIAGNOSIS*

EARTH ALKALI GROUP METALS
SEE METALS, ALKALINE EARTH METALS

EARTHS RARE
SEE METALS, RARE EARTHS

EATING BEHAVIOR
SEE NUTRIENT INTAKE ACTIVITY, FEEDING (EATING) BEHAVIOR

EATON-LIU AGENT
SEE BACTERIA, MYCOPLASMATALES, MYCOPLASMA PNEUMONIAE*

EATON'S AGENT PNEUMONIA
SEE RESPIRATORY DISORDERS, PNEUMONIA MYCOPLASMAL (PPLO)

EB VIRUS
SEE VIRUSES, HERPESVIRUSES, EB VIRUS

ECG GATED CARDIAC BLOOD POOL IMAGING
SEE HEART VISUALIZATION*

ECHOCARDIOGRAPHY
SEE HEART VISUALIZATION, ECHOCARDIOGRAPHY*

ECHOENCEPHALOGRAPHY
SEE BRAIN VISUALIZATION, ULTRASONIC ECHOENCEPHALOGRAPHY*

ECLAMPSIA
SEE PREGNANCY TOXEMIAS AND HYPERTENSION, ECLAMPSIA

ECOLOGICAL TOXICOLOGY
SEE TOXICOLOGY, ENVIRONMENTAL

ECOLOGY ANIMAL
SEE ENVIRONMENT, ECOLOGY ANIMAL

ECOLOGY HUMAN
SEE ENVIRONMENT, ECOLOGY HUMAN

ECONOMICS
SEE HEALTH ECONOMICS
SEE SOCIOECONOMICS

EDEMA
SEE BODY FLUID BALANCE, EDEMA

EDEMA QUINCKE'S
SEE METABOLIC DISORDERS INBORN, ANGIONEUROTIC EDEMA (HEREDITARY)

EDETIC ACID
SEE AMINO ACIDS, ETHYLENEDIAMINO ACIDS, EDTA

EDTA
SEE AMINO ACIDS, ETHYLENEDIAMINO ACIDS, EDTA

EDUCATION, AUDIOVISUAL AND OTHER TRAINING AIDS
SEE ALSO EDUCATION, COMPUTER ASSISTED INSTRUCTION
SEE ALSO EDUCATION, PROGRAMMED INSTRUCTION
P60HL-15157-07 0003 Comprehensive center for sickle cell disease - Public education
P60HL-15168-07 0003 Comprehensive sickle cell disease center - Sickle cell education and training program
P60HL-15996-06 0006 Cincinnati comprehensive sickle cell center - Education
P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling
P60HL-17265-04 0010 Community blood resource center support - Blood resources educational program
P60HL-17269-04 0036 National heart and blood vessel research and demonstration center - Public education
P60HL-17292-04 0024 Vermont Lung Center - Education and media resources unit
P50HL-19190-02 0002 Pulmonary SCOR--Pathophysiology, management of IRDS - Core--Demonstration and dissemination
P60HL-20985-01 0011 Northern California sickle cell center - SNMA community education program
R23HL-22947-01 Experimental systems to improve youth behavior (smoking prevention)
N01HR-62934-02 Evaluate continuing education in pulmonary medicine

EDUCATION, COMPUTER ASSISTED INSTRUCTION
SEE ALSO EDUCATION, PROGRAMMED INSTRUCTION, TEACHING MACHINES
P60HL-17265-04 0010 Community blood resource center support - Blood resources educational program
** P60HL-17292-04 0008 Vermont Lung Center - Respiratory physiology--Teaching, learning and auditing problem-solving skills
R18HL-21906-01 Stanford five city multifactor risk reduction study

EDUCATION, CURRICULUM
P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies--Dimensions, effectiveness
P60HL-15996-06 0006 Cincinnati comprehensive sickle cell center - Education
** P60HL-17265-04 0010 Community blood resource center support - Blood resources educational program

(contd)

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** P60HL-17269-04 0037 National heart and blood vessel research and demonstration center - Secondary and university education
P60HL-17269-04 0047 National heart and blood vessel research and demonstration center - Evaluation of competency-based educational model
P60HL-17292-04 0018 Vermont Lung Center - Group patient education-Breathing workshop project
P60HL-17292-04 0020 Vermont Lung Center - Mass information-Education project
P60HL-17292-04 0021 Vermont Lung Center - School lung education project
P60HL-17292-04 0024 Vermont Lung Center - Education and media resources unit
P60HL-23282-01 9001 Comprehensive hospital/community sickle cell center - Core-Institutionalization of education, screening and counseling
N01HR-62931-02 Development and evaluation of continuing education in pulmonary medicine

EDUCATION, HEALTH EDUCATION

SEE ALSO PSYCHOLOGY, ATTITUDE TO HEALTH AND HEALTH PROBLEMS

** P60HL-15157-07 0001 Comprehensive center for sickle cell disease - Screening program (human)
P60HL-15157-07 0002 Comprehensive center for sickle cell disease - Central data bank and research file
** P60HL-15157-07 0003 Comprehensive center for sickle cell disease - Public education
M P60HL-15158-07 Comprehensive sickle cell center
** P60HL-15158-07 0009 Comprehensive sickle cell center - Counseling and social services
P60HL-15158-07 0012 Comprehensive sickle cell center - Clinical services-Pediatric patients
** P60HL-15158-07 0028 Comprehensive sickle cell center - Education
** P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies-Dimensions, effectiveness
** P60HL-15160-07 0017 Center for sickle cell disease - Demonstration-Education, screening, counseling, patient care
** P60HL-15162-07 0010 Comprehensive sickle cell center - Core program-Community outreach and education program
P60HL-15162-07 0011 Comprehensive sickle cell center - Core program-Genetic counseling and diagnostic screening
P60HL-15168-07 0002 Comprehensive sickle cell disease center - Patient care
** P60HL-15168-07 0003 Comprehensive sickle cell disease center - Sickle cell education and training program
** P60HL-15168-07 0010 Comprehensive sickle cell disease center - Sickle cell center project (children)
** P60HL-15169-05 0017 Support for center for sickle cell disease - Study of the natural history of sickle cell disease in the home
P60HL-15169-05 0019 Support for center for sickle cell disease - Central screening and reference laboratory
** P60HL-15169-05 0021 Support for center for sickle cell disease - Multidisciplinary module system for education, screening and counseling
P60HL-15170-05 0002 Support for center for sickle cell anemia - Adult services-Testing programs
** P60HL-15170-05 0003 Support for center for sickle cell anemia - Adult services-Educational programs
** P60HL-15170-05 0008 Support for center for sickle cell anemia - Pediatric services-Education program
P60HL-15170-05 0023 Support for center for sickle cell anemia - Comprehensive sickle cell clinic
** P60HL-15170-05 0030 Support for center for sickle cell anemia - Adult services-Counseling program
P60HL-15996-06 0004 Cincinnati comprehensive sickle cell center - School adjustment of sickle cell patients
** P60HL-15996-06 0005 Cincinnati comprehensive sickle cell center - Factors precipitating crises (human)
** P60HL-15996-06 0006 Cincinnati comprehensive sickle cell center - Education
P60HL-15996-06 0007 Cincinnati comprehensive sickle cell center - Screening and counseling
P60HL-15996-06 0008 Cincinnati comprehensive sickle cell center - Patient care (children, adults)
P60HL-15996-06 0009 Cincinnati comprehensive sickle cell center - Insurance coverage of persons with sickle cell trait and disease
** P60HL-15999-05 0004 Miami comprehensive sickle cell center - Education, screening and counseling
P60HL-15999-05 0005 Miami comprehensive sickle cell center - Sickle cell clinic
** P60HL-16005-05 0001 Comprehensive sickle cell center - Demonstration-Community service component
P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)
** P60HL-16008-06 0001 Wayne State University comprehensive sickle cell center - Patient care system (children, adults)
** P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling
** P60HL-17265-04 0001 Community blood resource center support - Demonstration and evaluation
M P60HL-17292-04 Vermont Lung Center
** P60HL-17292-04 0018 Vermont Lung Center - Group patient education-Breathing workshop project
** P60HL-17292-04 0020 Vermont Lung Center - Mass information-Education project
** P60HL-17292-04 0021 Vermont Lung Center - School lung education project
** P60HL-17292-04 0024 Vermont Lung Center - Education and media resources unit
M P60HL-20985-01 Northern California sickle cell center
** P60HL-20985-01 0008 Northern California sickle cell center - Demonstration community program-Patient ambudsman
** P60HL-20985-01 0009 Northern California sickle cell center - Patient services (children, adults)
** P60HL-20985-01 0011 Northern California sickle cell center - SNMA community education program
** R23HL-22947-01 Experimental systems to improve youth behavior (smoking prevention)
M P60HL-23282-01 Comprehensive hospital/community sickle cell center
** P60HL-23282-01 9001 Comprehensive hospital/community sickle cell center - Core-Institutionalization of education, screening and counseling
P60HL-23282-01 9002 Comprehensive hospital/community sickle cell center - Core-Model sickle cell service for neighborhood health centers
** N01HR-72973-01 Health education and attitudes of family toward asthmatic children
N01HR-72974-01 Self-management systems for asthmatic children
N01HV-72983-00 Nutrition counseling in hyperlipidemia

EDUCATION, HEALTH EDUCATION, CARDIOVASCULAR DISEASE EDUCATION

SEE ALSO NATIONAL HIGH BLOOD PRESSURE EDUCATION RESEARCH PROGRAM COMMITTEE

** R25HL-17056-01 Improving patient compliance through nursing action
M P60HL-17269-04 National heart and blood vessel research and demonstration center
** P60HL-17269-04 0036 National heart and blood vessel research and demonstration center - Public education
** P60HL-17269-04 0037 National heart and blood vessel research and demonstration center - Secondary and university education
** P60HL-17269-04 0038 National heart and blood vessel research and demonstration center - Continuing education
P60HL-17269-04 0039 National heart and blood vessel research and demonstration center - Health care services to patients in neighborhood clinics
** P60HL-17269-04 0042 National heart and blood vessel research and demonstration center - Social-psychological smoking deterrents in schools
** P60HL-17269-04 0043 National heart and blood vessel research and demonstration center - Dietary modification-Effect on cardiovascular risk parameters (human)
** P60HL-17269-04 0047 National heart and blood vessel research and demonstration center - Evaluation of competency-based educational model
R01HL-18175-03 Drug taking for hypertension in a rural community
R01HL-18235-03 Cardiovascular fitness and other risk factors (human)
P50HL-18323-04 0035 SCOR hypertension center - Control of high blood pressure at the work site
** R25HL-18406-03 Adherence to hypertensive medical regimens (human)
** R25HL-18414-03 Hypertension-Family strategies for patient adherence
** R25HL-18418-03 Role of a supporting partner in adherence (human)
** R25HL-18424-03 Blood pressure education in an industrial setting (human)
R01HL-18715-02 Hypertension incidence project (human)
** R01HL-20244-02 he impact of hypertension information
** R01HL-20245-01 The impact of hypertension information
** R01HL-20247-01 The impact of hypertension information
** R01HL-20248-01 The impact of hypertension information
R01HL-20910-02 The alternative diet for coronary disease prevention (human)
R01HL-21427-02 Behavioral changes in post infarction patients
R01HL-21578-01 Effect of exercise upon the hypertensive adolescent
** R18HL-21906-01 Stanford five city multifactor risk reduction study
** R01HL-22212-01 Alameda county high blood pressure control program
R23HL-22345-02 0001 Behavioral cardiovascular compliance strategies - Long term modification of dietary patterns (human)
** R23HL-22345-02 0002 Behavioral cardiovascular compliance strategies - Compliance with antihypertensive medication regimens (human)
** R01HL-22380-01 Detroit hypertension control program
R01HL-22802-01 A rural mining community hypertension control project (human)
R18HL-22934-01 Behavorial approaches to adolescent hypertension
N01HV-12434-11 Therapy for hypertension in the general population
N01HV-12435-15 Therapy for hypertension in the general population (human)
N01HV-12436-15 Hypertension therapy in the general population (human)
N01HV-12440-14 Therapy for hypertension in the general population (human)
N01HV-12442-14 Therapy for hypertension in the general population (human)
N01HV-22931-14 Therapy for hypertension in general population
N01HV-22937-07 Therapy for hypertension in general population
N01HV-22938-11 Therapy for hypertension in general population
N01HV-22939-12 Hypertension detection and follow up program center
N01HV-22945-11 Cooperative hypertension detection and follow up study (human)
** N01HV-82913-00 Demonstration programs in hypertension control in the work setting (human)
N01HV-82915-01 Therapy for hypertension in the general population (human)

EDUCATION, HEALTH OCCUPATIONS

P60HL-15157-07 0003 Comprehensive center for sickle cell disease - Public education
P60HL-15160-07 0017 Center for sickle cell disease Demonstration-Education, screening, counseling, patient care
P60HL-15162-07 0010 Comprehensive sickle cell center Core program-Community outreach and education program
** P60HL-15168-07 0003 Comprehensive sickle cell disease center - Sickle cell education and training program
P60HL-15996-06 0006 Cincinnati comprehensive sickle cell center - Education
P60HL-15999-05 0004 Miami comprehensive sickle cell center - Education, screening and counseling
P60HL-15999-05 0005 Miami comprehensive sickle cell center - Sickle cell clinic
P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling
** P60HL-17265-04 0010 Community blood resource center support - Blood resources educational program
M P60HL-17269-04 National heart and blood vessel research and demonstration center
P60HL-17292-04 0013 Vermont Lung Center - Regional management of respiratory disease program
P60HL-17292-04 0024 Vermont Lung Center - Education and media resources unit
** P60HL-17292-04 0030 Vermont Lung Center - Hospital treatment of pneumonia
P60HL-17292-04 0031 Vermont Lung Center - Regional respiratory computer network
R23HL-22345-02 0001 Behavioral cardiovascular compliance strategies - Long term modification of dietary patterns (human)
N01HV-62941-01 Nutrition coding center for MRFIT and LRC programs

EDUCATION, HEALTH OCCUPATIONS, ALLIED

P60HL-15157-07 0003 Comprehensive center for sickle cell disease - Public education
P60HL-15158-07 0028 Comprehensive sickle cell center - Education
P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies-Dimensions, effectiveness
P60HL-15168-07 0003 Comprehensive sickle cell disease center - Sickle cell education and training program
P60HL-15170-05 0003 Support for center for sickle cell anemia - Adult services-Educational programs
P60HL-15996-06 0007 Cincinnati comprehensive sickle cell center - Screening and counseling
P60HL-16005-05 0001 Comprehensive sickle cell center - Demonstration-Community service component
P60HL-17269-04 0037 National heart and blood vessel research and demonstration center - Secondary and university education
P60HL-17269-04 0038 National heart and blood vessel research and demonstration center - Continuing education
P60HL-23282-01 9002 Comprehensive hospital/community sickle cell center - Core-Model sickle cell service for neighborhood health centers

EDUCATION, HEALTH OCCUPATIONS, CONTINUING EDUCATION

P60HL-15158-07 0028 Comprehensive sickle cell center - Education
P60HL-15162-07 0011 Comprehensive sickle cell center - Core program-Genetic counseling and diagnostic screening
P60HL-15168-07 0005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)
P60HL-15996-06 0008 Cincinnati comprehensive sickle cell center - Patient care (children, adults)
P60HL-17265-04 0001 Community blood resource center support - Demonstration and evaluation
** P60HL-17269-04 0038 National heart and blood vessel research and demonstration center - Continuing education
** P60HL-17269-04 0047 National heart and blood vessel research and demonstration center - Evaluation of competency-based educational model
** P50HL-19190-02 0002 Pulmonary SCOR-Pathophysiology, management of IROS - Core-Demonstration and dissemination
R18HL-21906-01 Stanford five city multifactor risk reduction study

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** N01HR-62931-02 Development and evaluation of continuing education in pulmonary medicine
** N01HR-62934-02 Evaluate continuing education in pulmonary medicine

EDUCATION, HEALTH OCCUPATIONS, MEDICAL
** R01HL-08696-15 0018 Orthotopic heart transplantation - Training in cardiac transplantation
P60HL-15158-07 0028 Comprehensive sickle cell center - Education
P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies--Dimensions, effectiveness
P60HL-15168-07 0003 Comprehensive sickle cell disease center - Sickle cell education and training program
P60HL-15170-05 0003 Support for center for sickle cell anemia - Adult services--Educational programs
P60HL-15170-05 0008 Support for center for sickle cell anemia - Pediatric services--Education program
P60HL-17269-04 0038 National heart and blood vessel research and demonstration center - Continuing education
** P60HL-17269-04 0047 National heart and blood vessel research and demonstration center - Evaluation of competency-based educational model
** P60HL-17292-04 0008 Vermont Lung Center - Respiratory physiology--Teaching, learning and auditing problem-solving skills
P50HL-19190-02 0002 Pulmonary SCOR--Pathophysiology, management of IROS - Core--Demonstration and dissemination
P60HL-20985-01 0011 Northern California sickle cell center - SNMA community education program
R23HL-22345-02 0001 Behavioral cardiovascular compliance strategies - Long term modification of dietary patterns (human)
R23HL-22345-02 0002 Behavioral cardiovascular compliance strategies - Compliance with antihypertensive medication regimens (human)
P60HL-23282-01 9002 Comprehensive hospital/community sickle cell center - Core--Model sickle cell service for neighborhood health centers
** N01HR-62931-02 Development and evaluation of continuing education in pulmonary medicine
** N01HR-62934-02 Evaluate continuing education in pulmonary medicine
** N01HV-62969-03 Cardiology patient simulator evaluation

EDUCATION, HEALTH OCCUPATIONS, NURSING
P60HL-15157-07 0003 Comprehensive center for sickle cell disease - Public education
P60HL-15158-07 0028 Comprehensive sickle cell center - Education
P60HL-15168-07 0003 Comprehensive sickle cell disease center - Sickle cell education and training program
P60HL-15170-05 0008 Support for center for sickle cell anemia - Pediatric services--Education program
R25HL-17056-01 Improving patient compliance through nursing action
P50HL-19190-02 0002 Pulmonary SCOR--Pathophysiology, management of IROS - Core--Demonstration and dissemination
P60HL-20985-01 0011 Northern California sickle cell center - SNMA community educationprogram

EDUCATION,POSTGRADUATE
R01HL-05694-20 Functional pathology of cardiovascular disease (human)
P60HL-15168-07 0003 Comprehensive sickle cell disease center - Sickle cell education and training program
P60HL-15170-05 0008 Support for center for sickle cell anemia - Pediatric services--Education program
P60HL-17292-04 0008 Vermont Lung Center - Respiratory physiology--Teaching, learning and auditing problem-solving skills

EDUCATION, PROGRAMMED INSTRUCTION
P60HL-17269-04 0037 National heart and blood vessel research and demonstration center - Secondary and university education
P60HL-17269-04 0038 National heart and blood vessel research and demonstration center - Continuing education
N01HR-62931-02 Development and evaluation of continuing education in pulmonary medicine

EDUCATION, PROGRAMMED INSTRUCTION, TEACHING MACHINES
N01HV-62969-03 Cardiology patient simulator evaluation

EDUCATION, SCHOOLS
** P60HL-15996-06 0004 Cincinnati comprehensive sickle cell center - School adjustment of sickle cell patients
P60HL-15996-06 0006 Cincinnati comprehensive sickle cell center - Education
** P60HL-17269-04 0042 National heart and blood vessel research and demonstration center - Social-psychological smoking deterrents in schools
P60HL-17292-04 0021 Vermont Lung Center - School lung education project
N01HR-72974-01 Self-management systems for asthmatic children

EDUCATION, SCHOOLS, SECONDARY
P60HL-17269-04 0037 National heart and blood vessel research and demonstration center - Secondary and university education
R23HL-22947-01 Experimental systems to improve youth behavior (smoking prevention)

EDUCATION, SPECIAL (REMEDIAL)
SEE ALSO HEALTH CARE SERVICES, REHABILITATION VOCATIONAL
SEE ALSO MENTAL HEALTH SERVICES, REHABILITATION PSYCHOSOCIAL
** P60HL-15158-07 0010 Comprehensi Tutorial service for sickle cell anemia patients
P60HL-15169-05 0021 Support for center for sickle cell disease - Multidisciplinary module system for education, screening and counseling
P60HL-15996-06 0008 Cincinnati comprehensive sickle cell center - Patient care (children, adults)
P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling
P60HL-20985-01 0008 Northern California sickle cell center - Demonstration community program--Patient ambudsman

EDUCATION, TEACHING
P60HL-15996-06 0004 Cincinnati comprehensive sickle cell center - School adjustment of sickle cell patients
P60HL-15996-06 0006 Cincinnati comprehensive sickle cell center - Education
P60HL-17269-04 0037 National heart and blood vessel research and demonstration center - Secondary and university education

EDUCATION, TRAINING
SEE ALSO INFORMATION DISSEMINATION, MEETINGS CONFERENCES SYMPOSIA, WORKSHOP
** R01HL-08696-15 0018 Orthotopic heart transplantation - Training in cardiac transplantation
P50HL-19170-02 0009 Harvard pulmonary SCOR--Chronic diseases of the airways - Ventilatory muscle training in chronic obstructive pulmonary disease (human)

EDUCATION, TRAINING LEVEL
SEE ALSO PSYCHOLOGY, PERFORMANCE, ACADEMIC ACHIEVEMENT
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
** R01HL-23078-01 Psychosocial stress and sudden coronary death (human)

EDUCATION, TRAINING LEVEL, EDUCATIONALLY DISADVANTAGED
P60HL-15158-07 0010 Comprehensive sickle cell center - Tutorial service for sickle cell anemia patients

EDUCATION, UNIVERSITIES
P60HL-17269-04 0037 National heart and blood vessel research and demonstration center - Secondary and university education

EDUCATION PROGRAMS (SYSTEMS) EVALUATION-PLANNING
P60HL-15157-07 0003 Comprehensive center for sickle cell disease - Public education
P60HL-15168-07 0003 Comprehensive sickle cell disease center - Sickle cell education and training program
** R25HL-17056-01 Improving patient compliance through nursing action
P60HL-17265-04 0010 Community blood resource center support - Blood resources educational program
P60HL-17269-04 0036 National heart and blood vessel research and demonstration center - Public education
P60HL-17269-04 0037 National heart and blood vessel research and demonstration center - Secondary and university education
** P60HL-17269-04 0038 National heart and blood vessel research and demonstration center - Continuing education
P60HL-17269-04 0043 National heart and blood vessel research and demonstration center - Dietary modification--Effect on cardiovascular risk parameters (human)
** P60HL-17269-04 0047 National heart and blood vessel research and demonstration center - Evaluation of competency-based educational model
** P60HL-17292-04 0008 Vermont Lung Center - Respiratory physiology--Teaching, learning and auditing problem-solving skills
P60HL-17292-04 0018 Vermont Lung Center - Group patient education--Breathing workshop project
P60HL-17292-04 0021 Vermont Lung Center - School lung education project
** P60HL-17292-04 0024 Vermont Lung Center - Education and media resources unit
R25HL-18424-03 Blood pressure education in an industrial setting (human)
P60HL-20985-01 0011 Northern California sickle cell center - SNMA community education program
R18HL-21906-01 Stanford five city multifactor risk reduction study
** N01HR-62931-02 Development and evaluation of continuing education in pulmonary medicine
** N01HV-62969-03 Cardiology patient simulator evaluation

EDUCATIONAL LEVEL
SEE EDUCATION, TRAINING LEVEL

EDUCATIONAL PSYCHOLOGY
SEE PSYCHOLOGY EDUCATIONAL (GENERAL)

EDUCATIONALLY DISADVANTAGED
SEE EDUCATION, TRAINING LEVEL, EDUCATIONALLY DISADVANTAGED

EFFERENT NERVES
SEE NERVOUS SYSTEM, EFFERENT NERVES

EFFORT, PHYSICAL
SEE HEALTH, PHYSICAL ACTIVITY, EXERCISE

EGF
SEE GROWTH FACTORS (INCL. ANABOLICS), EPIDERMAL GROWTH FACTOR

EGG SHELL
P01HL-14414-07 0004 Environmental influences on cardiorespiratory and cellular functions - Role of diffusion in gas exchange (chicken egg)

EHLERS-DANLOS SYNDROME
SEE METABOLIC DISORDERS INBORN, EHLERS-DANLOS SYNDROME

EHRLICH TUMOR
SEE NEOPLASMS, CARCINOMA, EHRLICH TUMOR

8,11,14-EICOSATRIENOATE, HYDROGEN-DONOR: OXYGEN OXIDOREDUCTASE
SEE OXIDOREDUCTASES, PROSTAGLANDIN SYNTHASE

EJACULATORY DUCT
SEE REPRODUCTIVE SYSTEM MALE, EPIDIDYMIS AND DUCTS

ELASTASE
SEE PROTEASES AND PEPTIDASES, ELASTASE

ELASTASE INHIBITORS
SEE ENZYME INHIBITORS, ELASTASE INHIBITORS

ELASTIC TISSUE
SEE CONNECTIVE TISSUE, ELASTIC TISSUE

ELASTICITY
SEE PHYSICAL PROPERTIES, ELASTICITY

ELASTIN
SEE ALBUMINOIDS, ELASTIN

ELASTOGRAPHY
SEE PHYSICAL PROPERTIES, ELASTICITY

ELASTOMERS
SEE PLASTICS, ELASTOMERS

ELECTRIC COUNTERSHOCK (DEFIBRILLATION)
SEE HEART RESUSCITATION, ELECTRIC COUNTERSHOCK

ELECTRIC COUNTERSHOCK (HEART RESUSCITATION)
SEE HEART RESUSCITATION, ELECTRIC COUNTERSHOCK

ELECTRICAL BURNS
SEE INJURIES, BURNS, ELECTRICAL

ELECTRICAL CONDUCTION
SEE ALSO ELECTRICAL IMPEDANCE
SEE ALSO IONIZATION
R01HL-21632-02 Development of a transcutaneous power transfer system (cattle)

ELECTRICAL DEFIBRILLATION
SEE HEART RESUSCITATION, ELECTRIC COUNTERSHOCK

ELECTRICAL DOUBLE LAYER POTENTIAL
SEE ELECTROPOTENTIALS, ZETA POTENTIAL

ELECTRICAL FIELDS
SEE ELECTRICITY-MAGNETISM, ELECTRICAL FIELDS

ELECTRICAL IMPEDANCE
SEE ALSO ELECTRICAL CONDUCTION
** R01HL-14688-05 Myocardial assessment by inverse electrocardiography (monkey)
R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)
R01HL-19118-03 Measurement of airways mechanics (human, dog)
** R01HL-19678-01 Quantification of intrathoracic fluid by impedance (human, dogs)

ELECTRICAL MEASUREMENTS (SEE ALSO SPECIFICS)*
R01HL-17702-04 Electro-optical dyes as probes of heart excitability

ELECTRICAL MEASUREMENTS, OSCILLOGRAPHY
R01HL-18040-04 Waveform dependency in defibrillation (calves)
R01HL-18947-02 Indirect mean arterial pressure (mammals)
R01HL-19118-03 Measurement of airways mechanics (human, dog)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL 22854-01 Non-invasive blood pressure measurement (rats)

ELECTRICAL MEASUREMENTS, POLAROGRAPHY*

R01HL 11901-12 0017 Effects of metabolic surgery on the hyperlipidemias Membrane permeability, blood viscosity, oxygen uptake Rheology studies (rabbits)
R01HL 19083-02 Rapid specific micro measurement of blood cholesterol

ELECTRICAL MEASUREMENTS, POTENTIOMETRY*

R01HL-19350-02 Prevention of thrombosis by applied electric fields (sheep)

ELECTRICAL POTENTIALS

SEE ELECTROPOTENTIALS

ELECTRICITY-MAGNETISM, DIELECTRIC PROPERTIES

P50HL-14147-08 0014 Specialized center of research in thrombosis - Theoretical models for electrostatic effects in blood clot formation

ELECTRICITY-MAGNETISM, DIPOLE MOMENTS

R01HL-16901-05 Multipolar linkage between heart geometry and surface (human, dogs)
** R01HL-19486-03 Dipole moment measurement of cardiac mass (rabbits, pigs)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-21283-02 Simulation studies of the ECG in acute ischemia (and human)

ELECTRICITY-MAGNETISM, ELECTRICAL FIELDS

** R01HL-19350-02 Prevention of thrombosis by applied electric fields (sheep)

ELECTRICITY-MAGNETISM, MAGNETIC FIELDS

R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
R01HL-13988-07 Elimination of reoperative cardiac pacemaker surgery (dogs)
M R01HL-17543-03 Magnetic tracers for diagnosis of lung disease
** R01HL-17543-03 0001 Magnetic tracers for diagnosis of lung disease - Chronic, interstitial lung disease (human, rabbits)
** R01HL-17543-03 0002 Magnetic tracers for diagnosis of lung disease - Magnetite as an index of asbestos exposure (human)
** R01HL-17543-03 0003 Magnetic tracers for diagnosis of lung disease - Occupationally accumulated magnetite for diagnosis of lung disease (human)
** R01HL-17543-03 0004 Magnetic tracers for diagnosis of lung disease - Magnetite retention, distribution, relaxation rate, viscosity (rabbits)
** R01HL-18321-03 Fluid shear or magnetic alignment of blood components (human)

ELECTROCARDIOCORDER

SEE HEART DISORDERS DIAGNOSIS, ELECTROCARDIOGRAPHY MONITOR, ELECTROCARDIOCORDER*

ELECTROCARDIOGRAPHY

SEE HEART DISORDERS DIAGNOSIS, ELECTROCARDIOGRAPHY*

ELECTROCARDIOGRAPHY FREQUENCIES

SEE HEART DISORDERS DIAGNOSIS, ELECTROCARDIOGRAPHY FREQUENCIES*

ELECTROCARDIOGRAPHY MONITOR

SEE HEART DISORDERS DIAGNOSIS, ELECTROCARDIOGRAPHY MONITOR*

ELECTROCARDIOGRAPHY MONITOR (PORTABLE)

SEE HEART DISORDERS DIAGNOSIS, ELECTROCARDIOGRAPHY MONITOR, ELECTROCARDIOCORDER*

ELECTROCHEMISTRY

SEE CHEMISTRY, ELECTROCHEMISTRY

ELECTRODES*

R01HL-22699-01 Defibrillation electrode studies (dogs, swine)

ELECTRODES, ENZYME*

R01HL-19083-02 Rapid specific micro measurement of blood cholesterol

ELECTRODES, MICROELECTRODES*

P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)
** P01HL-20592-02 0003 Cell biology of cardiac and skeletal muscle - Cellular magnesium and anion activities in ion-specific microelectrodes (frogs)
R01HL-23624-01 Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs)

ELECTRODES, PLATINUM*

R01HL-22815-01 Regional myocardial function after revascularization (dogs)

ELECTRODIFFUSION

SEE BIOLOGICAL TRANSPORT, PASSIVE TRANSPORT, DIFFUSION

ELECTROENCEPHALOGRAPHIC DETERMINATION OF DEATH

SEE DEATH, CEREBRAL

ELECTROENCEPHALOGRAPHY

SEE BRAIN ELECTRICAL ACTIVITY

ELECTROFOCUSING

SEE PHYSICAL SEPARATION, ELECTROFOCUSING*

ELECTROGENIC ION PUMP

SEE BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS

ELECTROKINETIC POTENTIAL

SEE ELECTROPOTENTIALS, ZETA POTENTIAL

ELECTROLYSIS, STATIONARY

SEE PHYSICAL SEPARATION, ELECTROFOCUSING*

ELECTROLYTE EXCHANGE AND TRANSPORT

SEE BIOLOGICAL TRANSPORT, ION EXCHANGE AND TRANSPORT

ELECTROLYTE-WATER BALANCE

SEE BODY FLUID BALANCE, IONIC

ELECTROLYTES

SEE IONS, ELECTROLYTES

ELECTROMAGNETIC BLOOD FLOWMETERS

SEE CARDIOVASCULAR DISORDERS DIAGNOSIS, BLOOD FLOW MEASUREMENTS, ELECTROMAGNETIC*

ELECTROMAGNETIC FIELDS

SEE ELECTRICITY-MAGNETISM, MAGNETIC FIELDS

ELECTROMAGNETIC FIELDS (HEART)

SEE HEART DISORDERS DIAGNOSIS, VECTOR MAGNETOCARDIOGRAPHY*

ELECTROMAGNETIC WAVES

SEE RADIATION, ELECTROMAGNETIC WAVES

ELECTROMYOGRAPHY

SEE MUSCLE FUNCTION, ELECTROMYOGRAPHY*

ELECTRON ACCELERATORS

SEE RADIATION, PARTICLE ACCELERATORS

ELECTRON CHARGE DISTRIBUTION

SEE ALSO ELECTRICITY-MAGNETISM, DIELECTRIC PROPERTIES
SEE ALSO ELECTRICITY-MAGNETISM, DIPOLE MOMENTS
R01HL-13164-07 Interaction of the alpha and beta chains of human hemoglobin
P50HL-14147-08 0015 Specialized center of research in thrombosis - Charge related properties of phospholipid surfaces in monolayers and vesicles
R01HL-16601-05 Structure and function of blood proteins (human, cattle)
R01HL-16860-05 Mossbauer studies of respiratory hemoproteins
R01HL-18737-03 Human erythrocyte membrane structure

ELECTRON DENSITY

SEE ELECTRON CHARGE DISTRIBUTION

ELECTRON MICROSCOPY

SEE OPTICS, MICROSCOPY, ELECTRON*

ELECTRON-PAIR BONDS

SEE CHEMICAL BONDS, COVALENT

ELECTRON PARAMAGNETIC RESONANCE

SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, ESR*

ELECTRON PROBE

SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, ELECTRON PROBE*

ELECTRON SPIN RESONANCE

SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, ESR*

ELECTRON SPIN (UNPAIRED)

SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, ESR*

ELECTRON TRANSPORT

SEE CHEMICAL TRANSFER, ELECTRON TRANSPORT

ELECTRONARCOSIS

SEE SENSORY DEPRESSION, ELECTRONARCOSIS

ELECTRONIC HEART STIMULATORS

SEE HEART PACEMAKERS ELECTRONIC

ELECTRONIC NEUROMUSCULAR STIMULATORS (FOR NEUROMOTOR DISORDERS)

SEE NEUROMUSCULAR STIMULATORS (FOR NEUROMOTOR DISORDERS)

ELECTRONIC RECORDING SYSTEMS

SEE BIOMEDICAL SYSTEMS AUTOMATED, ELECTRONIC RECORDING SYSTEMS

ELECTRONIC RESPIRATORY STIMULATORS

SEE RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, ELECTRONIC RESPIRATORY STIMULATORS

ELECTRONIC SPECTRA

SEE ALSO CHEMICAL BONDS
SEE ALSO CHEMICAL BONDS, VIBRATIONS
SEE ALSO CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY*
SEE ALSO METALS, DIVALENT METALS
SEE ALSO OPTICS, CHROMOPHORE*
** R01HL 16087-05 Structural and dynamic study of model heme complexes (yeast)
** N01HV 32913-11 Study electrodeless glow discharge for modifying polymer surface

ELECTRONIC SPECTRA, ATOMIC ORBITALS

** P01HL 16833-04 0008 Hemoglobin and red cell system in hemoglobinopathies Membrane associated phenomena in SS disease

ELECTRONIC SPECTRA, FREE RADICALS

P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease Role of intravascular coagulation (human, animals)
** P01HL-06370-17 0006 Cardiopulmonary and renal pathology research center Chemical basis of ultrastructural changes in disease (rats)
R01HL 15104-07 A mechanism for oxidative phosphorylation
R01HL 15980-06 Reactions of hemeproteins and oxygen (cattle)
** R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
R01HL-19532-01 Oxygen toxicity in the red cell (human)
** R23HL-22621-01 Blood cell-mediated pulmonary (human)

ELECTRONIC SPECTRA, MOLECULAR ORBITALS

** R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin
R01HL-22432-01 Molecular studies of human erythrocyte membranes

ELECTRONIC SPECTRA, SINGLET STATE

R01HL-13652-08 Metal sites in metalloproteins (mushroom)

ELECTRONIC STIMULATORS (GENERAL)

SEE ALSO BRAIN STIMULATORS ELECTRONIC
SEE ALSO HEART PACEMAKERS ELECTRONIC
SEE ALSO NEUROMUSCULAR STIMULATORS (FOR NEUROMOTOR DISORDERS)
SEE ALSO RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, ELECTRONIC RESPIRATORY STIMULATORS
R01HL-08696-15 0020 Orthotopic heart transplantation - Complete cardiopulmonary transplantation (dogs)
** R01HL-22844-01 Phrenic nerve pacing--Noninvasive diaphragm analysis (human, dogs)

ELECTRONIC STIMULATORS, RADIOFREQUENCY CONTROLLED

** R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)
R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
** R01HL-21706-02 Nuclear magnetic resonance and myocardial ischemia (rats)
R01HL-22844-01 Phrenic nerve pacing--Noninvasive diaphragm analysis (human, dogs)

ELECTROPHORESIS

SEE PHYSICAL SEPARATION, ELECTROPHORESIS*

ELECTROPHRENIC STIMULATORS

SEE RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, ELECTRONIC RESPIRATORY STIMULATORS

ELECTROPHYSIOLOGY

SEE ALSO BRAIN ELECTRICAL ACTIVITY
SEE ALSO ELECTROPOTENTIALS
SEE ALSO ELECTROSTIMULUS
SEE ALSO NEUROPHYSIOLOGY (GENERAL)
R01HL-00082-30 Transmembrane movements (barnacles, frogs, rats)
** R01HL-01486-23 Quantitative study of T-wave mechanisms (human, rabbits, dogs, chickens)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
** R01HL-05883-18 0004 Reflex control of resistance and capacitance vessels - Left ventricular receptors with nonmedullated vagal afferents (cats)
** R01HL-05883-18 0005 Reflex control of resistance and capacitance vessels - Differential blockade of medullated and non-medullated vagal afferents in the cat
R01HL-05883-18 0006 Reflex control of resistance and capacitance vessels - Cardiopulmonary vagal afferents in the conscious dog
P01HL-06285-18 0196 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Epithelial cell membranes (toads)
M P01HL-06308-18 Mechanisms and therapy of circulatory disease
** P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
** P01HL-06308-18 0029 Mechanisms and therapy of circulatory disease - Characterization of the patient with recurrent ventricular arrhythmias
** P01HL-06308-18 0035 Mechanisms and therapy of circulatory disease - Mechanisms for electrophysiological changes in myocardial infarction (dogs)
P01HL-06308-18 0037 Mechanisms and therapy of circulatory disease - Electrophysiology, blood flow, and ANS in ventricular fibrillation (dogs)
** P01HL-06308-18 0039 Mechanisms and therapy of circulatory disease - ANS in regulation of electrophysiology--Role of cyclic nulceotides (animals)
** P01HL-06308-18 0040 Mechanisms and therapy of circulatory disease - Metabolism and fatty acid utilization--Heart electrical stability (rats, dogs)
P01HL-06308-18 0042 Mechanisms and therapy of circulatory disease - Echocardiographic assessment of arrhythmias--Myocardial tissue type (human, dogs)
P01HL-06308-18 0044 Mechanisms and therapy of circulatory disease - Echocardiography to determine site of ectopic impulse formation (human, dogs)
P01HL-06312-17 0025 Surgical cardiology - Effect of denervation on arrhythmias and function with coronary occlusion (dogs)
** P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)
** R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
P01HL-07896-15 0008 Environmental biomedical research program - Otologic studies under hyperbaric conditions (human, animals)
P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
P01HL-07896-15 0030 Environmental biomedical research program - Narcosis caused by inert gases at raised pressures (human, animals)
P01HL-07896-15 0062 Environmental biomedical research program - Vectorcardiograms during diving (human, dogs)
** R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
M P01HL-08682-15 Regulation of the cardiovascular system
** P01HL-08682-15 0015 Regulation of the cardiovascular system - Projection of autonomic nerves onto the heart (dog)
** P01HL-08682-15 0016 Regulation of the cardiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)
** P01HL-08682-15 0017 Regulation of the cardiovascular system - Neurally induced cardiac dysrhythmias (dog)
** P01HL-08682-15 0018 Regulation of the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)
P01HL-08682-15 0022 Regulation of the cardiovascular system - Blood pressure responses and preganglionic sympathetic outflow (cat)
** P01HL-08682-15 0025 Regulation of the cardiovascular system - Physiology of preganglionic cell bodies (cat)
** P01HL-08682-15 0031 Regulation of the cardiovascular system - Cardiac electrophysiology in hibernation (ground squirrel, marmot)
** P01HL-08682-15 0037 Regulation of the cardiovascular system - Central nervous regulation of cardiopulmonary mechanisms (cats)
P01HL-08899-14 0030 Tolerance to respiratory gases in health and disease - Dynamic characteristics of respiratory control components (human, cats)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
** R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
M P01HL-11307-12 Biophysical studies in pediatric cardiology
** P01HL-11307-12 0002 Biophysical studies in pediatric cardiology - Cardiac extracellular electrophysiology (human, dog, chimpanzee)
P01HL-11307-12 9001 Biophysical studies in pediatric cardiology - Core support--computer science
** P01HL-11307-12 9002 Biophysical studies in pediatric cardiology - Biomedical engineering
M P01HL-11310-12 Mechanisms of cardiovascular disease
** P01HL-11310-12 0071 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial flutter (human)
** P01HL-11310-12 0072 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial tachycardia with block (human)
** P01HL-11310-12 0073 Mechanisms of cardiovascular disease - Electrophysiological study of atrial fibrillation (human)
** P01HL-11310-12 0074 Mechanisms of cardiovascular disease - Electrophysiological studies of paraxysmal atrial tachycardia (human)
** P01HL-11310-12 0075 Mechanisms of cardiovascular disease - Bipolar atrial electrograms from Bachmann's bundle (dogs)
P01HL-11310-12 0077 Mechanisms of cardiovascular disease - Abnormalities of rhythm and conduction following heart surgery (human)
** P01HL-11310-12 0079 Mechanisms of cardiovascular disease - Electrophysiological studies of complete heart block (human)
** P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
M P01HL-11351-12 Cellular and molecular mechanisms of myocardial function
** P01HL-11351-12 0003 Cellular and molecular mechanisms of myocardial function - Mechanical and electrical properties of cardiac muscle (rabbits)
** P01HL-11351-12 0005 Cellular and molecular mechanisms of myocardial function - Electrophysiology of cardiac muscle (rats)
** P01HL-11351-12 0020 Cellular and molecular mechanisms of myocardial function - Electrophysiology of cultured heart cells
P01HL-12157-11 0055 Functions and mechanisms of cell membrane ion transport - Growth and development of synthetic strand heart cells in culture (chick embryo)
P01HL-12157-11 0057 Functions and mechanisms of cell membrane ion transport - Electrophysiological investigations of synthetic strands of heart muscles (rats)
R01HL-12611-10 Basic and clinical studies of the ST-T deflection (human, dogs)
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
** P01HL-12738-10 0044 Physiologic pharmacology and its clinical applications - Cardioactive drugs and electrophysiological properties of cardiac cells (sheep)
** P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
** P01HL-12738-10 0080 Physiologic pharmacology and its clinical applications - Electrophysiology of cardiac muscle in the mitral valve (monkeys)
** P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
** P01HL-12738-10 0107 Physiologic pharmacology and its clinical applications - Blood superfused cardiac fibers (dogs)
** P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
** P01HL-12738-10 0110 Physiologic pharmacology and its clinical applications - Physiology and pharmacology of arrhythmias (dogs)
** P01HL-12738-10 0127 Physiologic pharmacology and its clinical applications - Cardiac electrical activity (human, animals)
P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications - Myocardial cells in tissue culture (rats, chick embryo)
** P01HL-12738-10 0136 Physiologic pharmacology and its clinical applications -
M P01HL-13108-09 Clinical heart transplantation
** P01HL-13108-09 0008 Clinical heart transplantation - Physiology and pharmacology of the transplanted human heart
** P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
** P01HL-13108-09 0018 Clinical heart transplantation - Electrophysiologic studies of cardiac drugs in the denervated heart
** R01HL-13134-07 Mechanism of chemoreceptor discharge (cats)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
** R01HL-13375-09 Cellular potential changes causing cardiac arrhythmias (dogs)
R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
M P01HL-13480-09 Cardiac electrophysiology
** P01HL-13480-09 0017 Cardiac electrophysiology - Body surface potential mapping (human, dogs)
** P01HL-13480-09 0026 Cardiac electrophysiology - Neural influences on cardiac electrophysiology and contraction (dog, cat)
** P01HL-13480-09 0028 Cardiac electrophysiology - Stress electrocardiography (human, dogs)
** P01HL-13480-09 0032 Cardiac electrophysiology - Cardiac activation sequence (dogs)
** P01HL-13480-09 0042 Cardiac electrophysiology - Computer modeling of arrhythmias
P01HL-13737-07 0030 Assisted circulation - Myocardial ischemia--Effects of phase-shift balloon pumping (dogs)
R01HL-13988-07 Elimination of reoperative cardiac pacemaker surgery (dogs)
P50HL-14159-08 0018 Specialized center of research in hypertension - Sympathetic nervous system in hypertension (rats)
P50HL-14214-07 0027 Newborn lung center for hyaline membrane disease - Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep)
P01HL-14388-07 0152 Regulation of the circulation in pathological states - Ion flux alterations in caudal artery in SHR
P01HL-14388-07 0178 Regulation of the circulation in pathological states - Structural and functional consequences of denervation (rats)
P01HL-14388-07 0201 Regulation of the circulation in pathological states - Central sympathetic discharge in spontaneously hypertensive rats
** P01HL-14414-07 0010 Environmental influences on cardiorespiratory and cellular functions - Pressure effects on cardiac electrical phenomena (animals)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
** R01HL-14614-07 Voltage control of contraction in heart (sheep)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
** R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
** P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
** R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
** P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
R01HL-15740-06 In vitro studies on heart cell function (rats)
R01HL-15805-06 Cerebral arterial tone and reactivity (rabbits)
R01HL-15991-05 Evaluation of heart stimulants in sea anemones
** R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
P01HL-16117-05 0004 Ion movements and membranes in cardiovascular control - Optical studies of excitation-contraction coupling (frogs, snakes)
R01HL-16135-05 Mechanisms of cardiac autorhythmicity (dogs, bats)
** R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
R01HL-16318-21 Biochemistry and pharmacology of Na-K transport
** R01HL-16328-06 Membrane electrical properties of vascular muscle (human, animals)
R01HL-16430-05 Neural control of respiration (cats)
R01HL-16507-04 Heart cell interactions and cell junction biogenesis (mice, rats, rabbits)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
** R01HL-16567-04 Differentiation of the heart-cell membrane (mice, chick)
P01HL-16607-05 0001 Calcium ion and control of cardiovascular function - Bilayer lipid membranes, antibiotic probes, and SR function
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
P01HL-16878-05 0003 Control of ventilation in health and disease - Brain stem respiratory neurons in response mechanical/chemical loading (animal)
P01HL-16878-05 0004 Control of ventilation in health and disease - Neurotransmitters in the respiratory system (cats)
P60HL-17269-04 0007 National heart and blood vessel research and demonstration center - Correlative studies of experimental myocardial ischemia (dog)
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
R01HL-17370-03 Synaptic chemistry and cardioregulation in Limulus
R01HL-17451-05 Digitalis effects on cardiac automaticity mechanisms
R01HL-17532-04 Infarct size--ECG, angio, path, correlation in dogs
** P50HL-17648-04 0014 Study of ischemic heart disease - Antidysrhythmic drugs and mammalian cardiac Purkinje fibers (sheep, dog)
** P50HL-17648-04 0028 Study of ischemic heart disease - Electrophysiology of sympathetic innervation in tissue culture
** P50HL-17651-04 0022 Ischemic heart disease specialized center of research - Electrophysiology--Mechanism and pharmacology of arrhythmias (human, dog)
** P50HL-17651-04 0046 Ischemic heart disease specialized center of research - Clinical core--Physiological changes/biochemical effects of myocardial ischemia
P50HL-17667-04 0031 Study of ischemic heart disease - Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey)
** P50HL-17670-04 0008 Study of ischemic heart disease - Surgical treatment of cardiac rhythm disorders (human, dogs)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-17800-04 Pulmonary reflexes--Central pathways (cats, dogs, rabbits)
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
** R01HL-18032-03 Devalopmant of normal and myopathic mammalian haart (hamstars)
** R01HL-18053-03 Intracallular lonic activitias in haart muscle (frogs)
** R01HL-18398-04 Machanisms of delayed and asymatric ventricular conduction (human, dogs)
** R01HL-18538-03 Tha role of electrotonus in His-Purkinje function (dog)
R01HL-18598-03 Role of Na, K-ATPase inhibition on digitalis action
** R01HL-18711-03 Electrophysiology of heart calls (rats, chicks)
** R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
** R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
R01HL-18943-03 Contractile activity of single caidiac cells
P01HL-18974-03 0001 Exparimental neuroganic hypertension program - Central neural systems regulating arterial pressure (rabbits)
P01HL-18974-03 0006 Experimental neuroganic hypertension program - Model of sustained arterial hypertension (cats)
R01HL-19044-03 Effect of drugs on devalopmant of cardiac failure (cats)
** R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
R01HL-19048-03 Structure of baroreceptors in hypertansion (rats)
R01HL-19076-03 Vagal control of haart rate--A biophysical model (rabbits)
R01HL-19138-03 Contractila activation of skinned cardiac cells (mammals)
** R01HL-19216-03 Characterization of cardiac pacamakar activity (cat, dog, rabbit)
M P01HL-19242-02 Study of vascular smooth muscla
P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to sarum lipoproteins (rats)
** P01HL-19242-02 0009 Study of vascular smooth muscle - Electrophysiology of vascular smooth muscle (rats, chick embryo)
P01HL-19259-03 0004 Oigoxin-specific antibody in human therapy - Digitalis-spacific antibodies pharmacological studies (human, dogs, shaep)
R01HL-19398-03 Ragional conduction abnormalities and arrhythmias (dogs)
R01HL-19487-03 Cardiac actions of digitalis (dogs, cats)
R01HL-19768-02 Recording and analysis of low levals c- diac signals (human, dogs)
R01HL-19995-02 Sensory transduction in cardiac machanoreceptors (cats, frogs, rats)
** R01HL-20153-02 Intracallular pH and myocardial electropharmacology (dogs, guinaa pigs)
R01HL-20238-02 Prospectiva bundla branch block study (human)
** R01HL-20558-02 Cardiac electrophysiology--Effacts of ions and drugs
P01HL-20581-01 0001 Vascular neuroeffector mechanisms in health and disease - Vascular neuroeffector machanism (rabbits)
P01HL-20581-01 0003 Vascular nauroeffector mechanisms in health and disease - Cerebrovascular neuroeffector characteristics (animals)
P01HL-20581-01 0005 Vascular neuroeffector mechanisms in health and disease - Changes in the neuroeffector mechanism in hypertension (rabbits)
M P01HL-20592-02 Cell biology of cardiac and skeletal muscle
P01HL-20592-02 0003 Cell biology of cardiac and skeletal muscle - Cellular magnesium and anion activities in ion-specific microelectrodes (frogs)
P01HL-20592-02 0004 Cell biology of cardiac and skeletal muscle - Excitation, conduction and contraction--Modelling in Purkinje fibers
P01HL-20592-02 0005 Cell biology of cardiac and skeletal muscle - Quantitative voltage studies
P01HL-20592-02 0006 Cell biology of cardiac and skeletal muscle - Permeability and ultrastructure of cardiac nexuses (rabbits, cattle, rats)
** R01HL-20597-02 Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits)
R01HL-20847-02 Respiratory neurochemical control (human, goats)
R01HL-20864-01 Postnatal maturation of cardiovascular regulatory system (minipig)
R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)
R01HL-21145-02 Response of atria to hyperosmolality--Mechanisms (rabbits)
R23HL-21151-02 Ischemic myocardium--Delivery of blood flow and drugs (dogs)
** R23HL-21167-02 The electrophysiology of cardiac hypertrophy (rats)
R01HL-21294-02 Voltage clamp of isolated cardiac Purkinje calls (dogs)
R01HL-21312-01 Sarcomere mechanics in disrupted vantricular muscle (guinea pigs)
R01HL-21314-02 Raspiratory tract secretion of ions, water and mucus (human, dogs)
R01HL-21342-02 Isolation and analysis of sodium channel from heart (frogs)
R23HL-21347-02 Accessory pathways and supraventricular tachycardia
R01HL-21351-02 Renal and vascular control by sympathetic ganglia (animals)
** R23HL-21368-02 Parinatal cardiac electrophysiology (dogs)
R01HL-21527-01 Prospective study of bundle branch block (human)
R01HL-21574-01 Automaticity of AV noda and its adjacent tissues (dogs)
R01HL-21654-01 Autonomic determinants of arrhythmia due to ischemia (cats)
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac calls
** R01HL-21735-01 Electrophysiology aftar haalad myocardial infarction (cats)
R23HL-21783-01 Ionic control of contractility in anoxic myocardium (rabbits, rats)
R23HL-21914-01 Studies of vasomotor control (rats)
R01HL-22135-01 Control of calcium fluxes across cardiac mambranas (dogs, rabbits, guinea pigs)
R01HL-22235-01 Mechanism of cardiac pacemaking (rabbits)
R23HL-22245-02 Functional charactaristics of atrial receptors (rats)
** R01HL-22269-01 Excitation-contraction coupling in anlargad haarts (rabbits)
** R01HL-22418-01 Naural control of cardio-raspiratory function (cats)
R01HL-22470-01 Liposoma myocardial uptake in infarct and ischamia (dogs, rats, mice)
R01HL-22594-01 Raflax control of the circulation in heart failure (dogs)
R01HL-22715-01 Neural intagration of the cardiovascular reflaxes (dogs))
R23HL-22728-01 Naural control of renin secretion (dogs)
R01HL-22732-01 Cantral organization of cardiac afferant nerves (cats, monkeys)
** R01HL-22862-01 CNS-mediatad effects of antiarrhythmic drugs (dogs)
** R01HL-23071-01 Elactrophysiology of lathal arrhythmias (dog, human)
R13HL-23072-01 Gordon Resaarch Conference--Cardiac and skalatal muscle (Naw Hampshire)
R01HL-23183-01 Voltage dependent conductance in mambranes
** R01HL-23599-01 Mechanisms of ischemic rhythm disordars (dogs)
R01HL-23614-02 Pharmacology of ralaxation in smooth muscle (mollusks)
R01HL-23624-01 Effect of drugs on ischamic cardiac calls (dogs, guinea pigs, pigs)
** R01HL-23970-01 Mechanisms and control of sudden cardiac daath (human, dog)

ELECTROPOTENTIALS

SEE ALSO ELECTRICAL IMPEDANCE
SEE ALSO ELECTRODES*
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
** P01HL-12157-11 0060 Functions and mechanisms of cell membrane ion transport - Ion transport and electrical properties of giant-celled aiga
P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications - Myocardial cells in tissue culture (rats, chick embryo)
P01HL-12738-10 0136 Physiologic pharmacology and its clinical applications -
R01HL-19995-02 Sensory transduction in cardiac mechanoreceptors (cats, frogs, rats)
R01HL-20230-02 Analysis of the action potential of cardiac muscle (sheep)
** R01HL-22738-01 Role of bioelectric potentials in platelet adherence (bats, rats, hamsters)

ELECTROPOTENTIALS, ACTION POTENTIALS

** P01HL-06308-18 0035 Mechanisms and therapy of circulatory disease - Mechanisms for electrophysiological changes in myocardial infarction (dogs)
P01HL-08682-15 0018 Regulation of the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)
P01HL-08682-15 0031 Regulation of the cardiovascular system - Cardiac electrophysiology in hibernation (ground squirrel, marmot)
P01HL-11307-12 0003 Biophysical studies in pediatric cardiology - Cellular biophysics (animals)
P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
P01HL-11351-12 0020 Cellular and molecular mechanisms of myocardial function - Electrophysiology of cultured heart cells
** P01HL-12157-11 0052 Functions and mechanisms of cell membrane ion transport - Active electrical properties of the synthetic strand
P01HL-12157-11 0057 Functions and machanisms of call membrane ion transport - Electrophysiological investigations of synthetic strands of heart muscles (rats)
P01HL-12738-10 0044 Physiologic pharmacology and its clinical applications - Cardioactiva drugs and electrophysiological properties of cardiac cells (sheep)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Padiatric cardiac alectrophysiology and pharmacology (human, dogs)
P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
P01HL-12738-10 0107 Physiologic pharmacology and its clinical applications - Blood superfused cardiac fibers (dogs)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Devalopmental electrophysiology and pharmacology (human, animals)
P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications - Myocardial calls in tissue culture (rats, chick embryo)
P01HL-12738-10 0136 Physiologic pharmacology and its clinical applications -
R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
** R01HL-13339-08 Pharmacology of devaloping cardiac tissuas (chick ambryo)
** R01HL-13349-06 Analysis of activation process in haart muscle (guinea pigs, rabbits, human)
P01HL-14414-07 0016 Environmantal influences on cardioraspiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
R01HL-14614-07 Voltage control of contraction in haart (shaep)
R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specializad alectrophysiology fibers--Elactrogenic basis of glycosides (mammals)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
R01HL-16657-06 Innervation of coronary arteries and haart (rats)
R01HL-17451-05 Oigitalis affects on cardiac automaticity machanisms
P50HL-17648-04 0014 Study of ischemic heart diseasa - Antidysrhythmic drugs and mammalian cardiac Purkinje fibers (sheep, dog)
P50HL-17648-04 0028 Study of ischemic heart disaase - Electrophysiology of sympathetic innervation in tissua culture
R01HL-18032-03 Devalopment of normal and myopathic mammalian heart (hamsters)
R01HL-18538-03 The role of alectrotonus in His-Purkinja function (dog)
R01HL-19216-03 Characterization of cardiac pacemakar activity (cat, dog, rabbit)
R01HL-20122-02 Operational mechanisms of airway receptors (dogs, pigs)
** R01HL-20230-02 Analysis of tha action potential of cardiac muscle (sheep)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
R01HL-20708-02 Voltage clamp of embryonic heart cell aggregates (rat and chick embryos)
R01HL-21283-02 Simulation studies of the ECG in acute ischemia (and human)
** R01HL-21342-02 Isolation and analysis of sodium channel from heart (frogs)
R23HL-21368-02 Perinatal cardiac electrophysiology (dogs)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL-21735-01 Electrophysiology after healed myocardial infarction (cats)
R01HL-21860-18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)
** R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
** R01HL-22269-01 Excitation-contraction coupling in enlarged hearts (rabbits)
** R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
** R01HL-22562-02 Mechanism of cardiac action potential propagation (tunicates)
** R01HL-22767-01 Model system for cardiac action potentials (squid, axons)
R01HL-23624-01 Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs)

ELECTROPOTENTIALS, EVOKED POTENTIALS

P01HL-07896-15 0032 Environmental biomedical research program - Fluorometry study of brain exposed to hyperbaric oxygen (dogs, cats)

(contd)

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P01HL-07896-15 0051 Environmental biomedical research program - Relationships of retinal circulation to disease (rabbits)
P01HL-07896-15 0056 Environmental biomedical research program - Neuromuscular blocking effects of nondepolarizing muscular relaxants (frogs)
P01HL-08805-15 0046 Regulation of ventilation and pulmonary circulation - Sites and modes of interaction of peripheral and central chemoreceptors
** P50HL-14214-07 0032 Newborn lung center for hyaline membrane disease - Evoked electroencephalographic potential in infants with HMD (human)
P50HL-19187-02 0011 Pediatric pulmonary SCOR--Hyaline membrane disease - Effects of hypoxia and hypercapnia on developing nervous system (monkey, human)

ELECTROPOTENTIALS, MEMBRANE POTENTIALS

SEE ALSO ELECTROPOTENTIALS, ZETA POTENTIAL
R01HL-01486-23 Quantitative study of T-wave mechanisms (human, rabbits, dogs, chickens)
P01HL-06285-18 0199 Cardiovascular-respiratory physiology and biochemistry - Renal tubular reabsorption of sodium chloride (hamsters, rabbits)
P01HL-06664-17 0037 Cardiopulmonary function in remediable vascular disease - Salt and water balance of cells and tissues (rabbits)
R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
P01HL-08682-15 0031 Regulation of the cardiovascular system - Cardiac electrophysiology in hibernation (ground squirrel, marmot)
** R01HL-09906-13 0019 Membrane transport processes in red blood cells - Hemoglobin change and membrane potentials in red blood cells at varying volumes
** R01HL-09906-13 0020 Membrane transport processes in red blood cells - Calibration of a fluorescent probe for erythrocytes
** R01HL-09906-13 0021 Membrane transport processes in red blood cells - Membrane potentials in human red blood cells due to proton gradients
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
P01HL-11307-12 0003 Biophysical studies in pediatric cardiology - Cellular biophysics (animals)
P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
P01HL-11351-12 0005 Cellular and molecular mechanisms of myocardial function - Electrophysiology of cardiac muscle (rats)
P01HL-12157-11 0049 Functions and mechanisms of cell membrane ion transport - Ouabain-insensitive cation transport in duck red cells
P01HL-12157-11 0052 Functions and mechanisms of cell membrane ion transport - Active electrical properties of the synthetic strand
P01HL-12157-11 0054 Functions and mechanisms of cell membrane ion transport - Simulation of electrogenic ion transport in cardiac muscle
** P01HL-12157-11 0057 Functions and mechanisms of cell membrane ion transport - Electrophysiological investigations of synthetic strands of heart muscles (rats)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
R01HL-12690-09 Systemic and local vascular adjustment in shock (monkeys, cats)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
P01HL-12738-10 0127 Physiologic pharmacology and its clinical applications - Cardiac electrical activity (human, animals)
P01HL-12738-10 0132 Physiologic pharmacology and its clinical applications - Coronary occlusions and arrhythmias (dogs)
P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications - Myocardial cells in tissue culture (rats, chick embryo)
** R01HL-12774-08 Ionic coupling in activation of cardiac muscle (frogs, guinea pigs)
R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
** R01HL-13375-09 Cellular potential changes causing cardiac arrhythmias (dogs)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)
P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
P60HL-15162-07 0020 Comprehensive sickle cell center - Biophysical studies of normal and sickle red cells (human)
P01HL-15835-06 0013 Study of muscles related to heart disease - Cardiac bioenergetics (rats)
P01HL-15835-06 0019 Study of muscles related to heart disease - Vascular smooth muscle--Electron microscopy, excitation contraction (animal)
P01HL-16117-05 0004 Ion movements and membranes in cardiovascular control - Optical studies of excitation-contraction coupling (frogs, snakes)
R01HL-16135-05 Mechanisms of cardiac autorhythmicity (dogs, bats)
R01HL-16328-06 Membrane electrical properties of vascular muscle (human, animals)
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
R01HL-17555-05 Distribution and metabolism of labeled digitaloids (dogs, guinea pigs)
P50HL-17648-04 0014 Study of ischemic heart disease - Antidysrhythmic drugs and mammalian cardiac Purkinje fibers (sheep, dog)
P50HL-17648-04 0028 Study of ischemic heart disease - Electrophysiology of sympathetic innervation in tissue culture
R01HL-17702-04 Electro-optical dyes as probes of heart excitability
R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
** R01HL-19076-03 Vagal control of heart rate--A biophysical model (rabbits)
R01HL-19216-03 Characterization of cardiac pacemaker activity (cat, dog, rabbit)
P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
P01HL-19242-02 0009 Study of vascular smooth muscle - Electrophysiology of vascular smooth muscle (rats, chick embryo)
R01HL-19639-02 Permeability transients of carriers, channels and heart
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
P01HL-19737-02 0002 Cellular and molecular aspects of respiratory physiology - Airway smooth muscle in health and disease (human, animals)
R01HL-19848-02 Contractile activation by rapid temperature jumps (frogs)
R01HL-19995-02 Sensory transduction in cardiac mechanoreceptors (cats, frogs, rats)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
R01HL-20230-02 Analysis of the action potential of cardiac muscle (sheep)
** R01HL-20254-02 Probes of heart and nerve membranes--Fluorescent dyes
R01HL-20273-02 Cardiac fiber direction and the QRS complex (dogs)
R01HL-20708-02 Voltage clamp of embryonic heart cell aggregates (rat and chick embryos)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-21099-02 Subcellular changes of blood vessels in hypertension (rats)
R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)
R23HL-21167-02 The electrophysiology of cardiac hypertrophy (rats)
** R01HL-21179-01 Volume regulation--Role of the membrane potential (amphiuma)
R23HL-21213-01 A model for calcium homeostasis in excitable tissue (marine worms)
R01HL-21217-01 Ion and 5-hydroxytryptamine transport by platelets
R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
R01HL-21574-01 Automaticity of AV node and its adjacent tissues (dogs)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
R01HL-21922-01 Transient currents induced by strophanthidin in the heart
R01HL-22137-02 Structure-function pathology of isolated heart cells (mice, rats)
R01HL-22235-01 Mechanism of cardiac pacemaking (rabbits)
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
R01HL-22562-02 Mechanism of cardiac action potential propagation (tunicates)
R01HL-22767-01 Model system for cardiac action potentials (squid, axons)
R01HL-23013-01 Smooth muscle development in vitro (chick embryo)
** R01HL-23183-01 Voltage dependent conductance in membranes

ELECTROPOTENTIALS, SLOW POTENTIALS

P01HL-08682-15 0037 Regulation of the cardiovascular system - Central nervous regulation of cardiopulmonary mechanisms (cats)
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
P01HL-19242-02 0009 Study of vascular smooth muscle - Electrophysiology of vascular smooth muscle (rats, chick embryo)

ELECTROPOTENTIALS, SPIKE POTENTIAL

R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
R01HL-22418-01 Neural control of cardio-respiratory function (cats)

ELECTROPOTENTIALS, ZETA POTENTIAL

SEE ALSO ELECTROPOTENTIALS, MEMBRANE POTENTIALS
P50HL-14147-08 0014 Specialized center of research in thrombosis - Theoretical models for electrostatic effects in blood clot formation
P50HL-14147-08 0015 Specialized center of research in thrombosis - Charge related properties of phospholipid surfaces in monolayers and vesicles
R01HL-14271-07 Physico-chemical properties of tracheal mucus (dogs, frogs)
R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
R01HL-20365-03 Molecular mechanisms of anion transport

ELECTRORETINOGRAPHY

SEE EYE DISORDERS DIAGNOSIS, RETINOGRAPHY, ELECTRORETINOGRAPHY*

ELECTROSTIMULUS

SEE ALSO ELECTRONIC STIMULATORS (GENERAL)
** P01HL-06308-18 0037 Mechanisms and therapy of circulatory disease - Electrophysiology, blood flow, and ANS in ventricular fibrillation (dogs)
** P01HL-06308-18 0038 Mechanisms and therapy of circulatory disease - Electrophysiology of ventricular arrhythmias associated with ischemia (dogs)
P01HL-06835-17 0060 Cardiovascular disease - Ventricular performance experimental models of arterial hypertension (rats, dogs)
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
P01HL-08682-15 0033 Regulation of the cardiovascular system - Functional and anatomical relations during cardiac re-innervation (dog)
P01HL-08805-15 0046 Regulation of ventilation and pulmonary circulation - Sites and modes of interaction of peripheral and central chemoreceptors
P01HL-11678-11 0031 Cardiovascular dynamics and their control - Hypertension caused by stimulation of renal sympathetic nerves (dogs)
P01HL-11678-11 0069 Cardiovascular dynamics and their control - Nervous control of the cirulation (dogs)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-14388-07 0203 Regulation of the circulation in pathological states - Activation of sympathetic nervous systems in spontaneously hyperactive rats
R01HL-14614-07 Voltage control of contraction in heart (sheep)
R01HL-15805-06 Cerebral arterial tone and reactivity (rabbits)
P01HL-16137-05 0013 Alveolar biology - Development and pathology of surfactant--Formation of alveolar (rabbits, sheep)
P01HL-19242-02 0007 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (animals)
R01HL-20273-02 Cardiac fiber direction and the QRS complex (dogs)
R23HL-21042-01 Cardiopulmonary reflexes and their anatomical basis (dogs)
R01HL-21187-01 Potassium, norepinephrine, and coronary arterial tone (dogs)
R01HL-21436-02 Autonomic control of renal function (cats)
R01HL-21570-01 The mechanical basis of myocardial energetics (cats)
P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
** R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
R01HL-22484-01 Neural control of cardiac conduction and excitation (dogs)
R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))
R01HL-22732-01 Central organization of cardiac afferent nerves (cats, monkeys)
R23HL-22747-01 Cardiodynamics and hypertension under cerebellar control (dogs)
R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)
R23HL-22920-01 Dynamic airway behavior (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R23HL-22972-D1 Microcirculatory function in hypotension (rats, hamsters)
R01HL-23285-D1 Role of the diaphragm in regional lung mechanics (dogs)

ELECTROTHERAPY
SEE HEALTH CARE SERVICES, PHYSICAL THERAPY, ELECTROTHERAPY

ELECTROVALENT BONDS
SEE CHEMICAL BONDS, IONIC

ELEMENTS, TRACE
SEE CHEMICALS (GENERAL), ELEMENTS, TRACE ELEMENTS

ELLIPTOCYTOSIS HEREDITARY
SEE BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC CONGENITAL, ELLIPTOCYTOSIS HEREDITARY

EMBDEN-MEYERHOF PATHWAY
SEE HEXOSES, GLYCOLYSIS ANAEROBIC, E-M PATHWAY

EMBOLISM
SEE CARDIOVASCULAR DISORDERS, EMBOLISM

EMBOLISM (AIR)
SEE CAROIOVASCULAR DISORDERS, EMBOLISM, AIR

EMBOLISM (FAT)
SEE CAROIOVASCULAR DISOROERS, EMBOLISM, FAT

EMBOLIZATION THERAPEUTIC
SEE CAROIOVASCULAR SURGERY, VASCULAR OCCLUSION THERAPEUTIC

EMBRYO, MAMMALIAN
SEE PREGNANCY, EMBRYO-FETUS

EMBRYO CHEMOTHERAPY, MAMMALIAN
SEE PREGNANCY, EMBRYO-FETUS CHEMOTHERAPY

EMBRYO-FETAL DISORDERS (GENERAL)
SEE PREGNANCY DISOROERS, EMBRYO-FETAL DISORDERS (GENERAL)

EMBRYO-FETUS DRUGS ADVERSE EFFECT
SEE PREGNANCY, EMBRYO-FETUS DRUGS ADVERSE EFFECTS

EMBRYO-FETAL GROWTH-DEVELOPMENT DISORDERS
SEE PREGNANCY DISOROERS, EMBRYO-FETAL GROWTH-DEVELOPMENT DISORDERS (SEE ALSO APPROPRIATE SPECIFICS)

EMBRYO-FETUS PHARMACOLOGY
SEE PREGNANCY, EMBRYO-FETUS PHARMACOLOGY

EMBRYO RESORPTION
SEE PREGNANCY LOSS, FETAL DEATH

EMBRYO SURGERY, MAMMALIAN
SEE PREGNANCY, EMBRYO-FETUS SURGERY

EMBRYO TRANSFER, MAMMALIAN
SEE PREGNANCY, EMBRYO-FETUS TRANSPLANTATION

EMBRYO TRANSPLANTATION, MAMMALIAN
SEE PREGNANCY, EMBRYO-FETUS TRANSPLANTATION

EMBRYOLOGY
SEE ALSO CARDIOVASCULAR SYSTEM, DUCTUS ARTERIOSUS EMBRYONIC
SEE ALSO HEART, FORAMEN OVALE EMBRYONIC
SEE ALSO PREGNANCY
P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)
RD1HL-07047-16 Comparative study of cardiac conduction system (human, birds, mammals)
RD1HL-13339-D8 Pharmacology of developing cardiac tissues (chick embryo)
RD1HL-13831-08 Factors regulating embryonic cardiac morphogenesis (chick, salamandra)
R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)
** R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
** R01HL-16567-04 Differentiation of the heart-cell membrane (mice, chick)
** RD1HL-17367-05 Functional sympathetic development in neonatal hearts (dogs, human)
RD1HL-17581-D3 Patent ductus arteriosus and pulmonary hypertension (dogs)
RD1HL-1805D-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)
RD1HL-18711-D3 Electrophysiology of heart cells (rats, chicks)
** R01HL-18714-04 Cardiovascular matrix–Morphogenesis and maturation (human, chick embryo, mammal)
R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
** RD1HL-19D68-03 Changes in membrane properties during erythropoiesis (chick embryo)
RD1HL-22226-D1 Autonomic nervous elements in the developing heart (rabbits)
R01HL-2255D-D2 Genetic cardiomyopathias in salamanders and hamsters
RD1HL-24048-01 Regulation of hemoglobin synthesis in chick embryos

EMBRYOLOGY (HUMAN) AND DEVELOPMENT STUDY SECTION
** RD1HL-D1755-25 Fetal and neonatal cardiovascular function (sheep)
** R01HL-10834-D9 Fetal and neonatal pulmonary circulation (goats)
** R01HL-15341-D6 Lung hormonal and chromosomal regulation (rats, rabbits)
** RD1HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
** R01HL-17367-05 Functional sympathetic development in neonatal hearts (dogs, human)
** RD1HL-19136-D3 Mucopolysaccharide metabolism in cardiac anomalies (rats)
** RD1HL-19430-03 Congenital heart malformations and situs inversus (mice)
** R01HL-2D337-D2 Thromboembolic diseases (human)
** RD1HL-2D635-03 Factors in lung development (rat and chick embryo)
** R23HL-21405-D1 Respiratory muscles in regulation of infant breathing (human)
** R23HL-21409-D2 Perinatal control of the ductus arteriosus (sheep)
** R01HL-22226-01 Autonomic nervous elements in the developing heart (rabbits)
** R01HL-2250D-D1 Conversion of choline to phosphatidylcholine in lung (rabbits, pigs)
** RD1HL-22859-01 Effect of carbon monoxide on the developing heart (rats)

EMBRYONIC CELL LINES
SEE TISSUE (CELL) CULTURE, EMBRYONIC-FETAL CELL LINES

EMBRYONIC NEOPLASMS
SEE NEOPLASMS, EMBRYONIC

EMBRYOPATHY
SEE PREGNANCY DISORDERS, EMBRYO-FETAL DISOROERS (GENERAL)

EMERGENCY CARE
SEE HEALTH CARE SERVICES, PATIENT CARE, EMERGENCY CARE

EMERGENCY SERVICES
SEE HEALTH CARE SERVICES, PATIENT CARE, EMERGENCY CARE

EMESIS
SEE GASTROINTESTINAL DISOROERS, EMESIS

EMI SCAN
SEE RADIOGRAPHY, SCANNING, CAT*

EMISSION SPECTROGRAPH (LASER PROBE)
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, LASER*

EMOTIONAL ADJUSTMENT
SEE PSYCHOLOGICAL ADAPTATION, EMOTIONAL ADJUSTMENT

EMOTIONAL DEPENDENCY-INDEPENDENCY
SEE PSYCHOLOGY, EMOTIONAL DEPENDENCY-INDEPENDENCY

EMOTIONAL DISORDERS
SEE PSYCHOLOGY ABNORMAL, EMOTIONAL DISORDERS

EMOTIONAL STRESS
SEE PSYCHOLOGIC STRESS

EMOTIONS
SEE PSYCHOLOGY, EMOTIONS

EMPATHY
SEE PSYCHOLOGY, EMOTIONS, EMPATHY

EMPHYSEMA, PULMONARY
SEE RESPIRATORY DISORDERS, BRONCHITIS CHRONIC AND EMPHYSEMA

EMPLOYMENT
SEE OCCUPATIONS, EMPLOYMENT

EMULSIONS
SEE PHYSICAL PROPERTIES, EMULSIONS

EMULSIONS (DOSAGE FORM)
SEE DOSAGE FORMS

ENDARTECTOMY
SEE CAROIOVASCULAR SURGERY, BLOOD VESSELS RESTORATION, ENDARTECTOMY

ENDOCARDIAL FIBROELASTOSIS
SEE HEART DISOROERS, ENDOCARDIAL FIBROELASTOSIS

ENDOCARDITIS BACTERIAL
SEE HEART DISOROERS, ENDOCARDITIS BACTERIAL

ENDOCARDIUM
SEE HEART, ENDOCARDIUM

ENDOCRINE DISORDERS
SEE ENDOCRINOLOGY, ENDOCRINE DISOROERS

ENDOCRINE DISORDERS CHEMOTHERAPY
SEE ENDOCRINOLOGY, ENDOCRINE DISOROERS CHEMOTHERAPY

ENDOCRINE DISORDERS DIAGNOSIS
SEE ENDOCRINOLOGY, ENDOCRINE DISOROERS DIAGNOSIS

ENDOCRINE GLANDS
SEE ENDOCRINOLOGY, ENDOCRINES

ENDOCRINE GLANDS DISORDERS
SEE ENDOCRINOLOGY, ENDOCRINE DISORDERS

ENDOCRINE GLANDS NEOPLASMS
SEE NEOPLASMS OF ENDOCRINES

ENDOCRINE GLANDS TRANSPLANTATION
SEE ENDOCRINOLOGY, ENDOCRINE TRANSPLANTATION

ENDOCRINE PHARMACOLOGY
SEE ALSO ENDOCRINOLOGY, ENDOCRINE DISOROERS CHEMOTHERAPY
RD1HL-10567-12 Erythropoietin--Immunoassay and characterization (dogs)
R01HL-12085-1D Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-12557-09 Effects of steroids and pregnancy on arteries and veins (guinea pigs)
R01HL-18148-04 Adrenal catecholamine secretion
P50HL-18323-04 D037 SCDR hypertension center - Adrenocortical factors in childhood hypertension
R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
R01HL-18893-03 Mechanism of angiotensin action--Role of receptor (rats)
R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
RD1HL-19644-D3 Etiological factors in hypertension (human, dogs, rats)
RD1HL-19898-03 Desferrioxamine therapy in thalassemia (dogs, rats, children)

ENDOCRINE REGULATION AND CONTROL (MECHANISMS)
SEE ENDOCRINOLOGY, HORMONAL REGULATION AND CONTROL (MECHANISMS)

ENDOCRINOLOGY (GENERAL)
P01HL-11678-11 0046 Cardiovascular dynamics and their control - Regulation of aldosterone secretion and related factors (dogs)

ENDOCRINOLOGY, ENDOCRINES
SEE ALSO ADRENAL GLANDS
SEE ALSO NERVOUS SYSTEM, PARAGANGLIA
SEE ALSO NEUROENDOCRINE SYSTEMS
SEE ALSO PITUITARY-DIENCEPHALON (HORMONES)
SEE ALSO PITUITARY GLAND
SEE ALSO REPRODUCTIVE SYSTEM, GONADS
P01HL-11678-11 D017 Cardiovascular dynamics and their control - Overall control of circulation--Mathematical analyses

ENDOCRINOLOGY, ENDOCRINE DISORDERS
SEE ALSO ADRENAL GLANDS DISORDERS
SEE ALSO CARBOHYDRATES METABOLISM DISOROERS, DIABETES
SEE ALSO DISEASES, SIGNS-SYMPTOMS, HIRSUTISM
SEE ALSO METABOLIC DISORDERS (INBORN), DIABETES INSIPIDUS
SEE ALSO PANCREATIC ISLETS DISOROERS
SEE ALSO REPRODUCTIVE AND SEX DEVELOPMENT DISOROERS
SEE ALSO SKELETAL DISORDERS, BONE DEVELOPMENT, DWARFISM, PITUITARY
SEE ALSO THYROID GLAND DISOROERS
PD1HL-D6835-17 0021 Cardiovascular disease - Animal study in atherosclerosis (dog, guinea pig)
R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
RD1HL-18938-D3 Pulmonary fatty acid and phospholipid metabolism (rats)
RD1HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
R01HL-19195-03 Hormonal regulation of lung function (rats)
RD1HL-19898-D3 Desferrioxamine therapy in thalassemia (dogs, rats, children)

ENDOCRINOLOGY, ENDOCRINE DISORDERS CHEMOTHERAPY
SEE ALSO ENDOCRINE PHARMACOLOGY
PD1HL-06835-17 0D5D Cardiovascular disease - 18-Hydroxylase block in the 17 alpha-hydroxylase deficiency syndrome (human)
RD1HL-13632-D8 Vascular changes in diabetes mellitus (human)
RD1HL-17749-03 Adrenocortical factors in human hypertension (human)
P01HL-18574-D3 DDD6 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
RD1HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

ENDOCRINOLOGY, ENDOCRINE DISORDERS DIAGNOSIS

SEE ALSO THYROID FUNCTION

R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
P50HL-14192-08 0007 Specialized center of research in hypertension - Role of new mineralocorticoids in hypertension (human, rats)
** R01HL-17749-03 Adrenocortical factors in human hypertension (human)
R01HL-19961-03 Management of hemosiderosis in thalassemia (children, adults)

ENDOCRINOLOGY, ENDOCRINE SURGERY

SEE ADRENALECTOMY
SEE BLOOD AND RE SYSTEM, THYMECTOMY
SEE ENDOCRINOLOGY, ENDOCRINE TRANSPLANTATION
SEE PARATHYROIDECTOMY
SEE PITUITARY REMOVAL

ENDOCRINOLOGY, ENDOCRINE TRANSPLANTATION

R01HL-13408-05 Environmental-genetic interactions in hypertension (rats)

ENDOCRINOLOGY, HORMONAL REGULATION AND CONTROL (MECHANISMS)

** R01HL-01813-25 Regulation of metabolism by drugs and hormones (rats)
R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
R01HL-05360-19 Cholesterol biosynthesis and its control in liver (rats)
** P01HL-06285-18 0193 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Aldosterone (rats, toads)
** P01HL-06285-18 0194 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--RNA synthesis (rats, toads)
** P01HL-06285-18 0195 Cardiovascular-respiratory physiology and biochemistry - Thyroid thermogenesis and sodium transport (rats)
** P01HL-06285-18 0196 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Epithelial cell membranes (toads)
P01HL-06285-18 0200 Cardiovascular-respiratory physiology and biochemistry - Medullary counter-current system (animals)
P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
P01HL-08682-15 0019 Regulation of the cardiovascular system - Hepatic immunophysiology and host-defense in shock (rat, dog, human)
P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
R01HL-08893-14 Structure and function of membrane proteins (human)
** R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
R01HL-09911-12 Hormonal and dietary modification of NaCl toxicity (rats) mice)
R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
** R01HL-10612-13 0021 Humoral factors in heart failure and hypertension - The control of aldosterone secretion (dogs)
** R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)
P01HL-11678-11 0027 Cardiovascular dynamics and their control - Vasopressin and thirst in control of body fluid volumes and osmolality (dogs)
** P01HL-11678-11 0047 Cardiovascular dynamics and their control - Unidentified pituitary factor in regulation of aldosterone secretion (rats)
R01HL-11901-12 0014 Effects of metabolic surgery on the hyperlipidemias - Effect of bypass on gastrin levels (dogs, human)
** R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
** R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
** R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)
R01HL-13626-06 Lipoprotein lipase and lipoprotein removal (human, rats, bacteria)
R01HL-13630-08 Control of glycogen synthesis in heart (cattle)
R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
R01HL-13841-16 Respiration during altitude acclimatization (goats, dogs, rats, rabbits)
P50HL-14159-08 0008 Specialized center of research in hypertension - Renal function and sodium metabolism in hypertension (rats, human, rabbits)
P50HL-14192-08 0007 Specialized center of research in hypertension - Role of new mineralocorticoids in hypertension (human, rats)
** P50HL-14214-07 0015 Newborn lung center for hyaline membrane disease - Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal)
P50HL-14214-07 0021 Newborn lung center for hyaline membrane disease - Development of surfactant system--Surfactant production and release (rat, rabbit)
P50HL-14214-07 0024 Newborn lung center for hyaline membrane disease - Synthesis and receptors for ACTH in fetal lung (human)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
R01HL-14990-07 Lipid transport in avian species (chickens)
R01HL-15427-06 Secretion of plasma lipoproteins (rats)
R01HL-15646-03 Lipid studies in vascular smooth muscle cells (human, monkeys)
R01HL-15685-05 Hemopoietic regulators produced in cell culture (human, animals)
** R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
** R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
** P60HL-16005-05 0013 Comprehensive sickle cell center - Study of regulation of erythropoiesis in vitro (human, rat, hamster, rabbit)
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
** R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
** P01HL-16387-04 0009 The blood vessel and thrombogenesis - Role of pituitary gland in the pathogenesis of arteriosclerotic lesions (rats)
R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
R01HL-16577-04 Lipoprotein lipase chemistry and function (rats, cattle, human)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R01HL-17976-18 Chemical agents and heart glycolytic enzymes (sheep)
R01HL-18095-04 Human dopamine-beta-hydroxylase (also cattle)
R01HL-18176-02 Effect of thyroid hormone on cultured cardiac cells (rats)
** R01HL-18185-04 Cardiac glycosides and diuretics--Role of NaO pump (dogs)
R01HL-18260-04 Cyclic nucleotide metabolism in lung tissue (cattle)
P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
R01HL-18567-03 A routine diagnostic test for minimal heart damage (human, rat)
** P01HL-18645-03 0007 Biology of the artery wall and atherosclerosis - Lipoprotein metabolism in subhuman primates
R01HL-18705-03 Regulation of plasma triglyceride metabolism (rats)
R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)
R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)
R01HL-18948-03 Pulseless flow and circulatory assistance (dogs, calves)
** R01HL-18952-03 Metabolism in perfused fetal and newborn rabbit lungs
R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
R01HL-19063-03 Cholesterol and lipoprotein metabolism (rat hepatocytes)
R01HL-19068-03 Changes in membrane properties during erythropoiesis (chick embryo)
** R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
P50HL-19160-02 0001 Mucus abnormality in cystic fibrosis - Regulation of respiratory secretions (rat, human)
P50HL-19160-02 0002 Mucus abnormality in cystic fibrosis - Ultrastructure, cytochemistry of pulmonary secretion (human, rat)
** R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
R01HL-19181-02 Regulation of heart cAMP-dependent protein kinase (rodents)
** R01HL-19195-03 Hormonal regulation of lung function (rats)
R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
** R01HL-19322-03 Role of pituitary hormones in the action of vitamin K (rats)
P50HL-19362-02 0002 A/S SCOR--Atherosclerosis in nonhuman primates - Infant caloric intake, adipose tissue development and atherosclerosis (baboon)
R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
R01HL-19379-03 Characterization of small-granule cells in the lung (mammals)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
** R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)
R01HL-19669-03 Lung organ culture and surfactant biosynthesis (adult and fetal rats)
R01HL-19684-03 Histotypic lung culture in circumfusion systems (mice)
** R01HL-19752-03 Phospholipid synthesis by fetal lung in organ culture (rats)
R01HL-20061-02 Serum lipoproteins and cell cholesterol metabolism (rats, human)
R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)
R01HL-20339-02 Vascular alpha-adrenergic receptor molecular properties
R01HL-20364-01 Episodic hypertension associated with human behavior (air traffic controllers)
R01HL-20476-03 Effects of diabetes on cardiac performance (rat)
R01HL-20517-03 Diabetes, somatotropin, factor VIII and atherosclerosis (human, animal)
R01HL-20859-02 Beta adrenergic catecholamine receptor
R01HL-20905-02 Synthesis of fetal hemoglobin in erythroid cells (sheep, human)
R01HL-20912-02 Control on non-alpha chain synthesis in thassemic mice
R01HL-20922-02 Control of human fetal hemoglobin synthesis
R01HL-20939-02 Regulation of fetal hemoglobin in humans
R23HL-21189-01 Regulation of pulmonary endothelial cell activities (human, cattle)
R01HL-21799-01 Circumventricular sites of pressor action of angiotensin II (rats)
R01HL-21800-01 Angiotensin effects on water intake and excretion
R01HL-22051-01 Role of angiotensin II in vasopressin release (human)
** R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
R01HL-22069-02 Experimental renal arterial hypertension (dogs)
R01HL-22088-02 Metabolic basis for diabetic microangiopathy (cattle)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
R01HL-22136-02 Histamine and cardiac adenyl cyclase
R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease
** R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
R01HL-22361-01 Regulation of cardiac adaptation to exercise (rats)
R01HL-22444-01 Bronchial mucus production in organ culture (human)
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
** R01HL-22561-01 Hormonal control of mesenteric circulation (cats)
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
R01HL-22729-01 Intracellular degradation of newly synthesized collagen (human, chick, rabbit)
R01HL-22812-01 Regulation of hepatic production of HDL (rats)
** R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis
R01HL-23115-01 Regulation of active sodium transport (frogs, rats)
R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
R01HL-23604-01 Hepatic microvascular regulatory mechanisms (rat)
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

ENDOCRINOLOGY, HORMONE BINDING PROTEINS

SEE ALSO GLOBULINS, CORTICOSTEROID BINDING GLOBULIN

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

SEE ALSO HALOPROTEINS, THYROXINE BINDING PROTEINS
** R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
P01HL-06285-18 0193 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport -Aldosterone (rats, toads)
R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)
** R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
R01HL-19279-03 Intracellular action of aldosterone in hypertension (human, rats)
R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)
R01HL-20645-01 Etiology of myocardial infarction (human)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)

ENDOCRINOLOGY, HORMONE RECEPTORS

R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
** P01HL-06285-18 0193 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport -Aldosterone (rats, toads)
P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology
R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)
** P01HL-12738-10 0114 Physiologic pharmacology and its clinical applications - Receptor specificites and metabolism of neurohypophysiel hormones (rats)
R01HL-13715-08 Myocardial adenyl cyclase (rats)
P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
** P50HL-14214-07 0024 Newborn lung center for hyaline membrane disease - Synthesis and receptors for ACTH in fetal lung (human)
R01HL-14509-07 Hypertension--Chemistry and biophysics of angiotensin
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
** R01HL-16918-05 Role of steroids in hypertension (human)
** P01HL-17813-04 0008 Lung disease and the oxygenation of blood and tissue - Pulmonary regulation of systemic blood pressure (human, rabbits, rats)
R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
R01HL-18272-03 Heart adenyl cyclase complex (beef heart)
R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
R01HL-18826-04 Interaction of peptides and target cells in lung (human)
R01HL-18893-03 Mechanism of angiotensin action--Role of receptor (rats)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
** P50HL-19185-02 0005 Pulmonary SCOR--Neonatal respiratory distress syndromes - Role and mechanism of glucocorticoids in fetal lung maturation (human, rabbit)
P50HL-19190-02 0003 Pulmonary SCOR--Pathophysiology, management of IRDS - Type II cells--Regulation and differentiation (rat)
R01HL-19195-03 Hormonal regulation of lung function (rats)
R01HL-19279-03 Intracellular action of aldosterone in hypertension (human, rats)
** R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
R01HL-20544-02 Integrated regulation of myocardial energy metabolism (rats, guinea pigs)
** R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
** R01HL-22367-01 Estrogen receptors in very low density lipoproteins (chicken livers)
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)
** R01HL-22990-01 Angiotensin II receptors--Mechanisms of regulation (rats)
R01HL-23115-01 Regulation of active sodium transport (frogs, rats)

ENDOCRINOLOGY, HORMONES

SEE ALSO ADRENAL CORTEX HORMONES
SEE ALSO ADRENAL MEDULLA HORMONES
SEE ALSO ANDROSTANE SERIES, ANDROGENS
SEE ALSO BLOOD AND RE SYSTEM, HEMATOPOIETIC FACTORS
SEE ALSO CELL GROWTH REGULATION, CHALONES
SEE ALSO ESTRATRIENE SERIES, ESTROGENS
SEE ALSO GASTROINTESTINAL HORMONES
SEE ALSO LIPID MOBILIZING FACTORS
SEE ALSO NERVE GROWTH FACTOR
SEE ALSO NEUROHORMONES
SEE ALSO NEUROTRANSMITTERS (GENERAL)
SEE ALSO PANCREAS HORMONES
SEE ALSO PARATHYROID HORMONES
SEE ALSO PEPTIDES, VASOACTIVE PEPTIDES
SEE ALSO PITUITARY DIENCEPHALON (HORMONES)
SEE ALSO PLANTS GROWTH REGULATORS
SEE ALSO PROGESTERONE
SEE ALSO PROGESTINS
SEE ALSO THYROID HORMONES
** P01HL-06314-17 0052 Immunologic mechanisms in cardiovascular disease - Role of cyclic nucleotides in neutrophil function (human)
P01HL-08805-15 0047 Regulation of ventilation and pulmonary circulation - Extracranial metabolic control of ventilation (dogs, goats)
** R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)
R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
R01HL-14102-07 Human physiology at 5360 meters - Mountain environment
R01HL-14706-07 Fetal hearts in organ culture (mice)
R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
** P01HL-17419-04 0006 Studies on mechanisms of hemostasis - Effect of hormones, drugs and other agents on fibrinogen synthesis (chick)
R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
P01HL-19242-02 0001 Study of vascular smooth muscle - Energy metabolism and protein turnover in vascular smooth muscle (rats)
R01HL-20344-02 Regulation of protein turnover in lung tissue (rats)
R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
R01HL-21140-01 Studies of pulmonay alveolar macrophage function (rabbits)
R01HL-21418-02 Experimental myocardial infarction (rats)
R01HL-22883-01 Lung epithelial cell interactions in vitro
R01HL-23969-01 Surfactant synthesis by type II cells in vitro (rats)

ENDOCRINOLOGY, HORMONES, PEPTIDE-POLYPEPTIDE HORMONES

SEE ALSO BLOOD AND RE SYSTEM, HEMATOPOIETIC FACTORS, ERYTHROPOIETIN
SEE ALSO GASTROINTESTINAL HORMONES, GASTRIN
SEE ALSO GASTROINTESTINAL HORMONES, PANCREOZYMIN-CHOLECYSTOKININ
SEE ALSO GASTROINTESTINAL HORMONES, SECRETIN
SEE ALSO GROWTH FACTORS (INCL. ANABOLICS), EPIDERMAL GROWTH FACTOR
SEE ALSO PANCREAS HORMONES, GLUCAGON
SEE ALSO PANCREAS HORMONES, INSULIN
SEE ALSO PARATHYROID HORMONES
SEE ALSO PEPTIDES, VASOACTIVE PEPTIDES
SEE ALSO PITUITARY-DIENCEPHALON (HORMONES)
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, OXYTOCIN
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, PROLACTIN
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, SOMATOTROPIN
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, THYROTROPIN
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, VASOPRESSIN
SEE ALSO THYROID HORMONES, (THYRO)CALCITONIN
P50HL-14214-07 0021 Newborn lung center for hyaline membrane disease - Development of surfactant system--Surfactant production and release (rat, rabbit)
P60HL-16005-05 0013 Comprehensive sickle cell center - Study of regulation of erythropoiesis in vitro (human, rat, hamster, rabbit)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
R01HL-19195-03 Hormonal regulation of lung function (rats)
R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
** R01HL-21676-02 Purification and properties of erythropoietin (human)
** R01HL-21683-02 Purification of erythropoietin (human)
** R01HL-21692-02 Purification of erythropoietin (human)
** R01HL-21701-02 Purification of erythropoietin (human)
R01HL-22115-02 Lipid-mobilization and diabetic atherosclerosis (human)
R01HL-22411-01 Neuroendocrine involvement in hypertension (rats)

ENDOCRINOLOGY, HORMONES, STEROID HORMONES

SEE ALSO ADRENAL CORTEX HORMONES
SEE ALSO ANDROSTANE SERIES, ANDROGENS
SEE ALSO ESTRATRIENE SERIES, ESTROGENS
SEE ALSO PROGESTERONE
SEE ALSO PROGESTINS
SEE ALSO REPRODUCTIVE HORMONES, SEX HORMONES
R01HL-13630-08 Control of glycogen synthesis in heart (cattle)
R01HL-14663-07 Pulmonary oxygen toxicity in newborn lung (human, mice)
P60HL-17292-04 0009 Vermont Lung Center - Controlled clinical trials on a clinical care unit (human)
P01HL-17419-04 0006 Studies on mechanisms of hemostasis - Effect of hormones, drugs and other agents on fibrinogen synthesis (chick)
** P50HL-18323-04 0038 SCOR hypertension center - Unknown adrenocortical mechanisms in hypertension (human)
P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins-EM studies (guinea pigs)
R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
** R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
R01HL-20922-02 Control of human fetal hemoglobin synthesis
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
R01HL-21112-02 Aldosterone binding, clearence, and secretion in man
** R01HL-22079-01 Heart receptor sites for digitalis and steroid hormones (animals)
R01HL-22500-01 Conversion of choline to phosphatidylcholine in lung (rabbits, pigs)

ENDOCRINOLOGY, HORMONES ANALOGS

SEE ALSO PEPTIDES, VASOACTIVE PEPTIDES
** P01HL-12738-10 0129 Physiologic pharmacology and its clinical applications - Receptor specificities and metabolism of vasopressin analogs
P60HL-16008-06 0015 Wayne State University comprehensive sickle cell center - Trace elements in sickle cell disease (human)
R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
R01HL-18272-03 Heart adenyl cyclase complex (beef heart)

ENDOCRINOLOGY, HORMONES BIOSYNTHESIS

SEE ALSO PROTEINS BIOSYNTHESIS
SEE ALSO STEROIDOGENESIS
P01HL-06285-18 0193 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Aldosterone (rats, toads)
R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
R01HL-15685-05 Hemopoietic regulators produced in cell culture (human, animals)
** R01HL-16524-02 Selective inhibitors of prostaglandin biosynthesis (dogs)
R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
R01HL-19455-03 Role of endothelial cells in vascular permeability (tissue culture)
R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)
** R23HL-21917-01 Adrenal steroids in adolescent and adult hypertension

ENDOCRINOLOGY, HORMONES BIOSYNTHESIS, PEPTIDE-POLYPEPTIDE HORMONES BIOSYNTHESIS

** P50HL-14214-07 0024 Newborn lung center for hyaline membrane disease - Synthesis and receptors for ACTH in fetal lung (human)
P60HL-16005-05 0022 Comprehensive sickle cell center - Regulation of erythropoiesis in patients with sickle cell anemia
R01HL-19653-03 Circulatory system effects of angiotensin analogs (rats)
R01HL-21686-02 Purification of erythropoietin (human)

ENDOCRINOLOGY, HORMONES BIOSYNTHESIS, STEROID HORMONES BIOSYNTHESIS

P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension
P50HL-18318-03 0004 Pathogenesis and complications of hypertension - Steroid and renin profiles in hypertension (rats, human)
P50HL-18318-03 0009 Pathogenesis and complications of hypertension - The mineralocorticoid-hypertensive syndrome in man

ENDOCRINOLOGY, HORMONES INHIBITORS

SEE ALSO ADRENAL CORTEX HORMONES, ALDOSTERONE INHIBITORS
SEE ALSO ADRENAL CORTEX (HORMONES) INHIBITORS
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, ACTH INHIBITORS
SEE ALSO THYROID ANTAGONISTS
** P01HL-06835-17 0032 Cardiovascular disease - Synthesis of angiotensin II as inhibitors for aldosterone

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-11897-11 Pathogenesis of experimental atherosclerosis (rabbits, guinea pigs)
P50HL-14192-08 0007 Specialized center of research in hypertension - Role of new mineralocorticoids in hypertension (human, rats)
R01HL-14509-07 Hypertension--Chemistry and biophysics of angiotensin
P50HL-18323-04 0037 SCOR hypertension center - Adrenocortical factors in childhood hypertension
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
R01HL-22069-02 Experimental renal arterial hypertension (dogs)
R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)
R01HL-22520-01 Pulmonary vascular response to group B Streptococci (human, mammals)

ENDOCRINOLOGY, HORMONES METABOLISM
R01HL-22051-01 Role of angiotensin II in vasopressin release (human)

ENDOCRINOLOGY STUDY SECTION
** R01HL-13715-08 Myocardial adenyl cyclase (rats)
** R01HL-19195-03 Hormonal regulation of lung function (rats)
** R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)
** R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis

ENDOCYTOSIS
SEE BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, PINOCYTOSIS

ENDOLYMPH
SEE EAR, LABYRINTHINE FLUIDS, ENDOLYMPH

ENDOMYOCARDIAL FIBROSIS
SEE HEART DISORDERS, ENDOMYOCARDIAL FIBROSIS

ENDONUCLEASE
SEE NUCLEASES, ENDONUCLEASES (GENERAL)

ENDOPEROXIDES
SEE FATTY ACIDS, UNSATURATED FATTY ACIDS, PROSTAGLANDINS

ENDOPLASMIC RETICULUM
SEE CELL COMPONENTS, ENDOPLASMIC RETICULUM

ENDOSCOPY
SEE DIAGNOSTIC TESTS, ENDOSCOPY*

ENDOTHELIOMA VASCULAR
SEE NEOPLASMS OF CARDIOVASCULAR SYSTEM, HEMANGIOENDOTHELIOMA

ENDOTHELIUM VASCULAR
SEE CARDIOVASCULAR SYSTEM, ENDOTHELIUM

ENDOTHELIUM VASCULAR PERMEABILITY
SEE CARDIOVASCULAR SYSTEM, ENDOTHELIUM PERMEABILITY

ENDOTOXIN SHOCK
SEE BLOOD TOXICOLOGY, BACTEREMIA-SEPTICEMIA

ENDOTOXINS
SEE IMMUNOLOGY, ANTIGENS BACTERIAL, ENDOTOXINS

ENDOXAN
SEE HALOALKYLAMINES, CYCLOPHOSPHAMIDE

ENERGETICS OF BIOLOGICAL TRANSPORT
SEE BIOLOGICAL TRANSPORT, TRANSPORT ENERGETICS

ENERGY DEPENDENT TRANSPORT
SEE BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT

ENERGY SYSTEMS, BIOLOGICAL POWER SOURCES
SEE BIOMEDICAL ENGINEERING, BIOLOGICAL POWER SYSTEMS

ENGINEERING, BIOMEDICAL
SEE BIOMEDICAL ENGINEERING

ENOLATES
SEE CARBOXYLIC ACIDS, ENOLATES

ENOLS
SEE ALCOHOLS, ENOLS

ENOVID
SEE FERTILITY, ANTIFERTILITY DRUGS, MESTRANOL-NORETHYNODREL

ENTERIC BACTERIA
SEE BACTERIA, ENTERIC (GENERAL)*

ENTEROCHROMAFFINOMA
SEE NEOPLASMS OF NERVOUS SYSTEM, CARCINOID

ENTEROCOCCI (STREPTOCOCCUS)
SEE BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS, ENTEROCOCCUS GROUP*

ENTEROHEPATIC CIRCULATION
SEE BILE ACIDS AND SALTS, ENTEROHEPATIC CIRCULATION

ENVELOPE, VIRAL
SEE VIRUS COMPONENTS, CAPSID AND ENVELOPE

ENVIRONMENT
SEE ALSO CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), ENVIRONMENT-ASSOCIATED
SEE ALSO SOCIOENVIRONMENT
** P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)

ENVIRONMENT, ADAPTATION
SEE ALSO PSYCHOLOGICAL ADAPTATION
SEE ALSO WATER ENVIRONMENT, DIVING REFLEX
M P01HL-06296-18 Cardiovascular and pulmonary adaptation to stress
P01HL-06296-18 0003 Cardiovascular and pulmonary adaptation to stress - Human exercise studies (human, dogs)
P01HL-07896-15 0039 Environmental biomedical research program - Development of resistance to lethal effects of oxygen (rats)
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
P01HL-08899-14 0007 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on visual function (human, animals)
** P01HL-08899-14 0015 Tolerance to respiratory gases in health and disease - Respiratory adaptations to increases in breathing (human)
** P01HL-08899-14 0064 Tolerance to respiratory gases in health and disease - Narcotic effects of inert gases on functional systems (rats)
** P01HL-08899-14 0065 Tolerance to respiratory gases in health and disease - Adaptation and effects of narcotic gases exposure (human)
** P01HL-13108-09 0023 Clinical heart transplantation - Adaptive mechanisms of the denervated heart (human)
M P01HL-14985-07 Adaptation to hypoxia
** P01HL-14985-07 0002 Adaptation to hypoxia - Oxygen transport in man at high altitude
** P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
** P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
** P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
** P01HL-14985-07 0008 Adaptation to hypoxia - Ventilatory drive and exercise capacity (human, dogs)
** P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
** P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
** P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
** P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
** P01HL-14985-07 0013 Adaptation to hypoxia - Chronic mountain sickness (men)
** P01HL-14985-07 0014 Adaptation to hypoxia - High altitude pulmonary edema (human, rats, dogs)
** P01HL-14985-07 0015 Adaptation to hypoxia - Pregnancy at high altitude (human, animals)
** P01HL-14985-07 0016 Adaptation to hypoxia - Administrative core
** P01HL-14985-07 0017 Adaptation to hypoxia - Core laboratories
** P01HL-14985-07 0018 Adaptation to hypoxia - Bioengineering core
** R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)
** R01HL-15469-06 Human ventilatory adaptation (also, dogs, rats)
R01HL-16330-06 Aging-tissue injury and repair (rats)
R01HL-16657-06 Innervation of coronary arteries and heart (rats)
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
R01HL-17970-04 Vascular effects of inhibitory behavioral adaptations (dogs)
R01HL-18145-03 Oxygen transport mechanisms in hypoxia (dogs, rats, rabbits)
** R01HL-18560-03 Cardiovascular adaptation to stress (miniature swine)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
** R01HL-19248-03 Breathing pattern variation and mechanical influences
R01HL-20655-02 Autonomic predictors of hypertension in children
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
** R01HL-21117-01 Altitude adaptation in chronic lung disease (human)
** R01HL-21282-01 Dynamics of interstitial space in whole animals (rats)
** R01HL-22154-01 Cardiac adaptation to physical training (dog)
** R01HL-22361-01 Regulation of cardiac adaptation to exercise (rats)
** R01HL-22667-01 Mechanisms of baroreceptor adaptation in hypertension (dogs)
** R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)

ENVIRONMENT, ADAPTATION, ACCLIMATIZATION
P01HL-08899-14 0008 Tolerance to respiratory gases in health and disease - Hypoxia in regards to respiratory and brain circulatory control (goats)
R01HL-10009-13 Regional lung function in man
** R01HL-13841-16 Respiration during altitude acclimatization (goats, dogs, rats, rabbits)
** R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
** P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
R01HL-17732-03 Peripheral venomotor control in thermal stress (human)
** R01HL-20634-01 Blood volume and venous return in thermal strain (human)
R01HL-21282-01 Dynamics of interstitial space in whole animals (rats)

ENVIRONMENT, ADAPTATION, ESTIVATION
** P01HL-08805-15 0006 Regulation of ventilation and pulmonary circulation - Adaptation of lungfish--Estivation

ENVIRONMENT, ADAPTATION, HIBERNATION
P01HL-07896-15 0058 Environmental biomedical research program - Lung synthesis of disaturated phosphatidylcholine (rats, dogs, bats)
M P01HL-08682-15 Regulation of the cardiovascular system
** P01HL-08682-15 0006 Regulation of the cardiovascular system - Cardiovascular studies of mammalian hibernators (sciuromorpha)
P01HL-08682-15 0011 Regulation of the cardiovascular system - Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels)
** P01HL-08682-15 0031 Regulation of the cardiovascular system - Cardiac electrophysiology in hibernation (ground squirrel, marmot)
** R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-17847-04 Cardiovascular and renal functions of marmots

ENVIRONMENT, ALTITUDE
SEE ALSO ENVIRONMENT, STRESS, ALTITUDE
R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
** P01HL-07896-15 0033 Environmental biomedical research program - Breathing mechanism in birds
R01HL-10009-13 Regional lung function in man
R01HL-13841-16 Respiration during altitude acclimatization (goats, dogs, rats, rabbits)
R01HL-17711-05 Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs)
R01HL-18082-03 Erythrocyte phosphates and vertebrate gas transport (amphibians, reptiles)
R01HL-18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)
** R01HL-21117-01 Altitude adaptation in chronic lung disease (human)
R01HL-21126-02 Exercise-induced bronchospasm in children
R01HL-21159-02 Pathophysiological effects of hypoxia (rats)

ENVIRONMENT, ATMOSPHERE (WEATHER)
SEE ALSO AIR POLLUTION
SEE ALSO ENVIRONMENT, EXTRATERRESTRIAL, SUPRATERRESTRIAL
R01HL-22528-02 Early risk predictors for chronic pulmonary disease (human)

ENVIRONMENT, ATMOSPHERE, HUMIDITY
R01HL-13824-06 Defense mechanisms in pathogenesis of emphysema (human, dogs)
P01HL-14414-07 0004 Environmental influences on cardiorespiratory and cellular functions - Role of diffusion in gas exchange (chicken egg)
R01HL-21126-02 Exercise-induced bronchospasm in children

ENVIRONMENT, ATMOSPHERIC PRESSURE
SEE ALSO ENVIRONMENTAL CHAMBER CONTROLLED, HYPERBARIC FACILITY
SEE ALSO INJURIES, DYSBARISM
SEE ALSO RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, HYPERBARIC OXYGENATION
SEE ALSO RESPIRATORY GAS LEVELS
P01HL-07896-15 0033 Environmental biomedical research program - Breathing mechanism in birds

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-07896-15 0059 Environmental biomedical research program - Hyperoxygenation at elevated atmospheric pressure on myocardial blood flow (dogs)
** P01HL-07896-15 0060 Environmental biomedical research program - Effect of pressure on development of marine crustacean larvae
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
** P01HL-08899-14 0006 Tolerance to respiratory gases in health and disease - Effects of extreme pressures of inert gases in macaque monkey
P01HL-08899-14 0017 Tolerance to respiratory gases in health and disease - Pulmonary tolerance (human, dogs)
** P01HL-08899-14 0018 Tolerance to respiratory gases in health and disease - Effects of respiratory gases at extreme pressures (human)
P01HL-08899-14 0023 Tolerance to respiratory gases in health and disease - Hypoxia and hyperoxia in respiratory response in regards to PCO2 (human)
** P01HL-08899-14 0030 Tolerance to respiratory gases in health and disease - Dynamic characteristics of respiratory control components (human, cats)
P01HL-08899-14 0031 Tolerance to respiratory gases in health and disease - Studies in exercise (human, dogs)
P01HL-08899-14 0033 Tolerance to respiratory gases in health and disease - Acid-base related influences of hypoxia (human)
** P01HL-08899-14 0064 Tolerance to respiratory gases in health and disease - Narcotic effects of inert gases on functional systems (rats)
** P01HL-08899-14 0065 Tolerance to respiratory gases in health and disease - Adaptation and effects of narcotic gases exposure (human)
P01HL-08899-14 0066 Tolerance to respiratory gases in health and disease - Neurophysiological effects of inert gases in man
P01HL-08899-14 0067 Tolerance to respiratory gases in health and disease - Inert gas influences upon visual function in man
P01HL-08899-14 0072 Tolerance to respiratory gases in health and disease - Inert gas exchange isobaric gas counterdiffusion and decompression
P01HL-08899-14 0075 Tolerance to respiratory gases in health and disease - Gas diffusion rates and bubble formation across membranes (animals)
P01HL-08899-14 0076 Tolerance to respiratory gases in health and disease - Bubble formation during gas counterdiffusion (hamsters)
P01HL-08899-14 0077 Tolerance to respiratory gases in health and disease - Isobaric gas supersaturation patterns
P01HL-08899-14 0079 Tolerance to respiratory gases in health and disease - Physiological factors in counterdiffusion bubble formation (human, pigs)
P01HL-08899-14 0080 Tolerance to respiratory gases in health and disease - Dynamic quantitation of continuous isobaric gas embolization
** P01HL-14414-07 0004 Environmental influences on cardiorespiratory and cellular functions - Role of diffusion in gas exchange (chicken egg)
R01HL-14495-05 Solid and structural mechanics of lungs (mammals)
R01HL-16666-05 Micropinocytosis in isolated capillary endothelium
R01HL-22259-01 Modification of susceptibility to oxygen poisoning (rats)
R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)

ENVIRONMENT, ATMOSPHERIC PRESSURE, COMPRESSION-DECOMPRESSION

SEE ALSO ENVIRONMENT, EXTRATERRESTRIAL, SUPRATERRESTRIAL
SEE ALSO WATER ENVIRONMENT, DIVING AND SWIMMING
M P01HL-07896-15 Environmental biomedical research program
** P01HL-07896-15 0009 Environmental biomedical research program - Decompression sickness and computation of safe diving tables (human, animals)
** P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
** P01HL-07896-15 0019 Environmental biomedical research program - Hyperoxic myopia (human)
** P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
** P01HL-07896-15 0030 Environmental biomedical research program - Narcosis caused by inert gases at raised pressures (human, animals)
** P01HL-07896-15 0045 Environmental biomedical research program - Extravascular lung water dynamics in pulmonary oxygen toxicity (human, baboons)
** P01HL-07896-15 0050 Environmental biomedical research program - Fundamental decompression concepts using the rat animal model
** P01HL-07896-15 0057 Environmental biomedical research program - Effects of dipyridamole and aspirin on decompression thrombocytopenia (human)
** P01HL-07896-15 0062 Environmental biomedical research program - Vectorcardiograms during diving (human, dogs)
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
** P01HL-08899-14 0003 Tolerance to respiratory gases in health and disease - Inert gas exchange in the eye (human, dogs)
P01HL-08899-14 0020 Tolerance to respiratory gases in health and disease - Oxygen tolerance (human, rats, guinea pigs)
** P01HL-08899-14 0022 Tolerance to respiratory gases in health and disease - Effect of inert gas and hydrostatic pressures on physiological functions (monkey)
P01HL-08899-14 0028 Tolerance to respiratory gases in health and disease - Inert gas exchange, oxygen influences organs and tissues (human, rabbits, dogs)
P01HL-08899-14 0029 Tolerance to respiratory gases in health and disease - Isobaric gas counter diffusion phenomena (human, pigs)
P01HL-08899-14 0052 Tolerance to respiratory gases in health and disease - Oxygen effects on auditory and vestibular function (human, guinea pigs)
** P01HL-08899-14 0056 Tolerance to respiratory gases in health and disease - Extension of pulmonary oxygen tolerance at increased pressures (animals)
** P01HL-08899-14 0072 Tolerance to respiratory gases in health and disease - Inert gas exchange isobaric gas counterdiffusion and decompression
** P01HL-08899-14 0073 Tolerance to respiratory gases in health and disease - Biophysical mechanisms involved in isobaric gas counterdiffusion syndrome
** P01HL-08899-14 0074 Tolerance to respiratory gases in health and disease - Biomathematical analysis of isobaric gas exchange and bubble formation
** P01HL-08899-14 0075 Tolerance to respiratory gases in health and disease - Gas diffusion rates and bubble formation across membranes (animals)
** P01HL-08899-14 0076 Tolerance to respiratory gases in health and disease - Bubble formation during gas counterdiffusion (hamsters)
** P01HL-08899-14 0077 Tolerance to respiratory gases in health and disease - Isobaric gas supersaturation patterns
** P01HL-08899-14 0078 Tolerance to respiratory gases in health and disease - Isobaric gas counterdiffusion--Sensory, cutaneous and systemic function (animals)
P01HL-08899-14 0079 Tolerance to respiratory gases in health and disease - Physiological factors in counterdiffusion bubble formation (human, pigs)
P01HL-08899-14 0080 Tolerance to respiratory gases in health and disease - Dynamic quantitation of continuous isobaric gas embolization
** P01HL-08899-14 0085 Tolerance to respiratory gases in health and disease - Search for gas bubbles in vestibular fluids (animals)
** P01HL-08899-14 0089 Tolerance to respiratory gases in health and disease - Decompression by applications of optimal control theory
P01HL-14414-07 0003 Environmental influences on cardiorespiratory and cellular functions - Exposure to abnormal gaseous environments (human, dogs, rabbits)
** R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
R01HL-16855-03 Cavitation in biological systems (microorganisms, animals)

ENVIRONMENT, CLIMATE

SEE ALSO ENVIRONMENT, ADAPTATION, ACCLIMATIZATION
P50HL-14136-07 0016 Pulmonary SCOR--Airways obstructive diseases - Environmental factors in airways obstructive diseases (human)
R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
P60HL-15996-06 0005 Cincinnati comprehensive sickle cell center - Factors precipitating crises (human)

ENVIRONMENT, CLIMATE, COLD

SEE ALSO TEMPERATURE, COLD
** R01HL-20719-02 Cold induced pulmonary hypertension (cattle)

ENVIRONMENT, CLIMATE, SEASONS

R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
R01HL-19487-03 Cardiac actions of digitalis (dogs, cats)

ENVIRONMENT, ECOLOGY ANIMAL

SEE ALSO TOXICOLOGY, ENVIRONMENTAL
R01HL-01979-22 Arteriosclerosis in zoo animals on controlled diets (animals)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
** R01HL-18082-03 Erythrocyte phosphates and vertebrate gas transport (amphibians, reptiles)

ENVIRONMENT, ECOLOGY HUMAN

SEE ALSO CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), ENVIRONMENT-ASSOCIATED
SEE ALSO ENVIRONMENTAL HEALTH (GENERAL)
SEE ALSO POPULATION STUDIES HUMAN
SEE ALSO SOCIAL GROUPS, ETHNIC
SEE ALSO SOCIOENVIRONMENT
SEE ALSO TOXICOLOGY, ENVIRONMENTAL
** R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
R01HL-20910-07 The alternative diet for coronary disease prevention (human)
** R01HL-21126-02 Exercise induced bronchospasm in children

ENVIRONMENT, ECOLOGY ORGANISMS, HOST-ORGANISM

SEE ALSO VIRUS DISEASE CHARACTERISTICS, HOST-VIRUS
R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-induced membrane damage in Hb SS disease (human, animals)
P50HL-19171-02 0006 Pulmonary SCOR--Lung injury by childhood infections - Development of model systems (bacteria, viruses, hamsters)
** P50HL-19171-02 0008 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Electron microscopy, radioautography, histochemistry
** P50HL-19171-02 0009 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Scanning electron microscopy, freeze-fracture methods
** P50HL-19171-02 0010 Pulmonary SCOR--Lung injury by childhood infections - Metabolic pathways of normal and injured respiratory cells
R01HL-20170-02 Pulmonary infection in splenectomized animals (mice)
R23HL-22823-01 Phagocytic and immune defense mechanisms of the lung (mice)

ENVIRONMENT, EXTRATERRESTRIAL, SUPRATERRESTRIAL

SEE ALSO ENVIRONMENT, ATMOSPHERE (WEATHER)
SEE ALSO ENVIRONMENT, ATMOSPHERIC PRESSURE, COMPRESSION-DECOMPRESSION
SEE ALSO ENVIRONMENT, STRESS, ALTITUDE
P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)

ENVIRONMENT, GRAVITY-MOTION

P01HL-04664-18 0005 Cardiovascular and lung dynamics - Applications of current research, equipment and techniques
P01HL-11678-11 0058 Cardiovascular dynamics and their control - Overall control of the circulation--Computer analysis
R01HL-14495-05 Solid and structural mechanics of lungs (mammals)
P01HL-15832-06 0005 Chemical-structural predispositions to lung injury - Pulmonary structure and stress-strain relationships (rats)
R01HL-21518-01 Improvement in regional ventilation-perfusion resolution (human)
P01HL-21584-02 0002 Respiratory mechanics in normal and abnormal states - Lung mechanics--Regional deformation and ventilation (dogs)
R01HL-23985-01 Role of the diaphragm in regional lung mechanics (dogs)

ENVIRONMENT, ORIENTATION

SEE ALSO SENSORY-PERCEPTUAL PROCESSES, PROPRIOCEPTION
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)

ENVIRONMENT, ORIENTATION, CHEMOTAXIS

P01HL-03174-23 0001 Mechanisms of acute vascular reaction to injury - Response of the vascular intima to injury (human, rats)
** P01HL-06314-17 0052 Immunologic mechanisms in cardiovascular disease - Role of cyclic nucleotides in neutrophil function (human)
P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
R01HL-17964-04 The alternate pathway for fibrinolysis (human)
P01HL-17827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)
** R01HL-21988-01 Biochemistry of human platelet chemotaxis

ENVIRONMENT, STRESS

SEE ALSO ENVIRONMENT, ADAPTATION
SEE ALSO INJURIES (HAZARDS AND INSULTS)
SEE ALSO PREGNANCY, PRENATAL STRESS
SEE ALSO PSYCHOLOGIC STRESS
** R01HL-02228-24 Respiration, circulation, and heat regulation in exercise (bird, mammals)
P01HL-06285-18 0125 Cardiovascular-respiratory physiology and biochemistry - Myocardial function in the fetal and neonatal lamb
P01HL-06285-18 0157 Cardiovascular-respiratory physiology and biochemistry - Left ventricle outflow impedance analysis (human)
M P01HL-06296-18 Cardiovascular and pulmonary adaptation to stress

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-08682-15 0023 Regulation of the cardiovascular system - Cardiovascular control--Effects of spinal pathways lesions (dog)
P01HL-08899-14 0041 Tolerance to respiratory gases in health and disease - Blood gas transport and brain circulatory control (human)
P01HL-08899-14 0064 Tolerance to respiratory gases in health and disease - Narcotic effects of inert gases on functional systems (rats)
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
R01HL-13193-09 Pathophysiology of post-traumatic and shock states (rodents, dogs)
** R01HL-13408-05 Environmental-genetic interactions in hypertension (rats)
P50HL-14159-08 0018 Specialized center of research in hypertension - Sympathetic nervous system in hypertension (rats)
M P01HL-14414-07 Environmental influences on cardiorespiratory and cellular functions
R01HL-14495-05 Solid and structural mechanics of lungs (mammals)
R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
R01HL-16135-05 Mechanisms of cardiac autorhythmicity (dogs, bats)
R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
R01HL-16330-06 Aging-tissue injury and repair (rats)
R01HL-16420-02 Effect of training-detraining on the rat heart
R01HL-16916-04 0011 The role of albumins in lung water accumulation - Whole body distribution and exchange of albumin (rabbits, human, monkeys)
R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
** R01HL-17580-04 The impact of stress on coronary heart disease (men)
R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
P01HL-17731-04 0002 Physiological basis of pulmonary disease - Biomechanics of the lung (frogs, cats)
R25HL-18418-03 Role of a supporting partner in adherence (human)
R01HL-18644-03 Prosthesis for aortocoronary bypass (dogs, baboons)
** R01HL-18907-03 Objective evaluation early after MI and heart surgery (human)
R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
R01HL-19410-03 Dynamic interrelations underlying exercise hyperpnea (human)
R01HL-19567-03 Impact of emotion on coronary arteries (human)
R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)
R01HL-20364-01 Episodic hypertension associated with human behavior (air traffic controllers)
R01HL-20384-09 Social stimulation, RNA and cardiovascular disease (animals)
R01HL-20655-02 Autonomic predictors of hypertension in children
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
R01HL-20920-01 Control of hemoglobin synthesis (baboon)
R01HL-21126-02 Exercise-induced bronchospasm in children
** R01HL-21282-01 Dynamics of interstitial space in whole animals (rats)
** R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
R01HL-22650-01 Regulatory mechanisms of erythropoietin production (human, rats, mice)
R01HL-22651-01 Control of protein metabolism in heart muscle
R01HL-22809-01 Coronary-prone behavior and cardiovascular reactivity (human)
R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)
R01HL-23161-01 0003 Biology of myocardial ischemia - Phosphorylase coupling to myocardial sarcoplasmic reticulum (dog)

ENVIRONMENT, STRESS, ALTITUDE

R01HL-02228-24 Respiration, circulation, and heat regulation in exercise (bird, mammals)
P01HL-06285-18 0146 Cardiovascular-respiratory physiology and biochemistry - Pathogenesis and detection of hypoxic pulmonary edema (human, animals)
P01HL-08899-14 0030 Tolerance to respiratory gases in health and disease - Dynamic characteristics of respiratory control components (human, cats)
** R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
P50HL-14187-07 0015 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pathophysiologic responses of pulmonary capillary bed (dog, human)
M P01HL-14985-07 Adaptation to hypoxia
** P01HL-14985-07 0002 Adaptation to hypoxia - Oxygen transport in man at high altitude
** P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
** P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
** P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
** P01HL-14985-07 0008 Adaptation to hypoxia - Ventilatory drive and exercise capacity (human, dogs)
** P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
** P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
** P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
** P01HL-14985-07 0013 Adaptation to hypoxia - Chronic mountain sickness (men)
** P01HL-14985-07 0014 Adaptation to hypoxia - High altitude pulmonary edema (human, rats, dogs)
** P01HL-14985-07 0015 Adaptation to hypoxia - Pregnancy at high altitude (human, animals)
** P01HL-14985-07 0016 Adaptation to hypoxia - Administrative core
** P01HL-14985-07 0017 Adaptation to hypoxia - Core laboratories
** P01HL-14985-07 0018 Adaptation to hypoxia - Bioengineering core
** R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
R01HL-15469-06 Human ventilatory adaptation (also, dogs, rats)
R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
R01HL-18145-03 Oxygen transport mechanisms in hypoxia (dogs, rats, rabbits)
** R23HL-22621-01 Blood cell-mediated pulmonary (human)
R01HL-23224-01 Hypoxia and pulmonary vascular smooth muscle (rat, cat)

ENVIRONMENT, STRESS, COLD INDUCED

P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in RDS (sheep, cat)
R01HL-21323-02 Raynaud's disease and temperature self-regulation (human)

ENVIRONMENT, STRESS, HEAT INDUCED

SEE ALSO INJURIES, TEMPERATURE DEPENDENT, HEAT INDUCED
R01HL-02228-24 Respiration, circulation, and heat regulation in exercise (bird, mammals)
P01HL-07896-15 0036 Environmental biomedical research program - Respiratory heat loss in deep diving (infants, dogs)
** R01HL-17732-03 Peripheral venomotor control in thermal stress (human)
** R01HL-20634-01 Blood volume and venous return in thermal strain (human)
R01HL-20663-02 Regulation of skin blood flow in man
** R01HL-20766-02 Control of circulation in heat stress (baboons)
R01HL-21282-01 Dynamics of interstitial space in whole animals (rats)
** R01HL-21451-01 Control of circulation during heat stress and fever (baboon)

ENVIRONMENT, STRESS MECHANICAL

SEE ALSO MUSCLE FUNCTION, MUSCLE STRESS
SEE ALSO PHYSICAL PROPERTIES, TENSILE STRENGTH
P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
** R01HL-11289-12 Analysis of stress in pulsatile dynamics
R01HL-12083-11 Flow field in aorta and its major branches (dogs, phantom models)
R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
** R01HL-13437-09 Physical and mechanical parameters in the microcirculation (animals)
R01HL-13803-07 Advanced cardiac valvular and vascular prosthesis (dogs, baboons)
** P01HL-14388-07 0214 Regulation of the circulation in pathological states - Deformation pattern and stress analysis of the left ventricle
** P01HL-14388-07 0215 Regulation of the circulation in pathological states - Left ventricle model in pathophysiologic states
P01HL-14388-07 0216 Regulation of the circulation in pathological states - Development and regression of ventricular hypertrophy (cats, rats)
P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
P01HL-14388-07 0221 Regulation of the circulation in pathological states - Experimental myocardial infarction (dogs)
** P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
** P50HL-15062-07 0020 Study of lipoproteins, artery wall, and atherosclerosis - Artery wall reactions--Elevated pressure and hyperlipemia (monkey)
P60HL-15162-07 0019 Comprehensive sickle cell center - RBC-Blood rheology in sickle cell anemia and related disorders (human, animal)
** P01HL-15195-04 0003 Program project in biological materials - Mechanical evaluation and fabrication
** R01HL-15270-06 Local mechanical properties of the aortic tissue (dogs, pigs)
** P01HL-15832-06 0005 Chemical-structural predispositions to lung injury - Pulmonary structure and stress-strain relationships (rats)
R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
** R01HL-16938-05 Effect of physical forces on blood (dogs, human)
P60HL-17269-04 0032 National heart and blood vessel research and demonstration center - Clinical circulatory assist device fabrication
** R01HL-17437-03 'Perfusion lung'--Role of traumatized leukocytes (dogs, human)
P01HL-17731-04 0001 Physiological basis of pulmonary disease - Mechanisms of blood flow and ventilation (dogs)
R01HL-17821-03 Cavitation phenomena near prosthetic devices
R01HL-18156-02 Hemodynamics in curved arteries
P01HL-18208-04 0006 Center for the study of blood cell rheology - Analysis of flow in arterioles and capillaries (human)
R01HL-18321-03 Fluid shear or magnetic alignment of blood components (human)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
** P01HL-18576-03 0001 Thrombosis research program project - Platelet damage from physical forces and artificial surfaces (human)
R01HL-18584-03 Effects of physical forces on platelets (human)
R01HL-19677-03 Venous structure and function (dogs)
** R01HL-19830-02 Shear to aortic histamine synthesis and permeability (dogs)
R01HL-19995-02 Sensory transduction in cardiac mechanoreceptors (cats, frogs, rats)
P01HL-21584-02 0001 Respiratory mechanics in normal and abnormal states - Engineering analysis of lung deformation (human, animals)
R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)
N01HV-72918-01 Test polymers for circulatory assist devices
N01HV-72919-01 Test polymers for circulatory assist divices

ENVIRONMENT-ASSOCIATED HYPERTENSION

SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), ENVIRONMENT-ASSOCIATED

ENVIRONMENT CONTROLLED

SEE ALSO ENVIRONMENTAL CHAMBER CONTROLLED
P01HL-08899-14 0015 Tolerance to respiratory gases in health and disease - Respiratory adaptations to increases in breathing (human)

ENVIRONMENTAL CHAMBER CONTROLLED

P01HL-08682-15 0006 Regulation of the cardiovascular system - Cardiovascular studies of mammalian hibernators (sciuromorpha)
** R01HL-15810-06 Electrolyte physiology and respiratory acid-base (dogs)
R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)
P50HL-19170-02 0004 Harvard pulmonary SCOR--Chronic diseases of the airways - Exercise, increased ventilation effect on airway exposure and responses (rodent)

ENVIRONMENTAL CHAMBER CONTROLLED, HYPERBARIC FACILITY

SEE ALSO INJURIES, DYSBARISM
SEE ALSO RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, HYPERBARIC OXYGENATION
P01HL-07896-15 0030 Environmental biomedical research program - Narcosis caused by inert gases at raised pressures (human, animals)
P01HL-07896-15 0036 Environmental biomedical research program - Respiratory heat loss in deep diving (infants, dogs)
P01HL-07896-15 0051 Environmental biomedical research program - Relationships of retinal circulation to disease (rabbits)
P01HL-14414-07 0004 Environmental influences on cardiorespiratory and cellular functions - Role of diffusion in gas exchange (chicken egg)
P01HL-14414-07 0010 Environmental influences on cardiorespiratory and cellular functions - Pressure effects on cardiac electrical phenomena (animals)
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

pressure on membrane and cellular function (human, rabbits)
** P01HL 14414-07 9003 Environmental influences on cardiorespiratory and cellular functions Machine and electronics shop--Core facility

ENVIRONMENTAL CONTAMINANTS (GENERAL)
SEE ENVIRONMENTAL HEALTH, CONTAMINATION (GENERAL)

ENVIRONMENTAL HEALTH (GENERAL)
SEE ALSO CONSUMER PRODUCTS
SEE ALSO ENVIRONMENT, ECOLOGY HUMAN
SEE ALSO EPIDEMIOLOGY AND DISEASE CONTROL STUDY SECTION
SEE ALSO OCCUPATIONAL HEALTH
SEE ALSO PHYSICAL PROPERTIES, SOUND, NOISE POLLUTION
SEE ALSO RESPIRATORY DISORDERS, ENVIRNOMENTAL POLLUTANTS ASSOCIATED
P60HL-17292-04 0003 Vermont Lung Center - Subclinical pulmonary disease in a rural environment (human)

ENVIRONMENTAL HEALTH, CONTAMINATION (GENERAL)
SEE ALSO AIR POLLUTION
SEE ALSO CONGENITAL ABNORMALITIES, TERATOGENIC AGENTS
SEE ALSO GENETICS, MUTAGENS
SEE ALSO NEOPLASTIC TRANSFORMATION, CARCINOGENS (GENERAL)
SEE ALSO PESTICIDES BIOLOGICAL EFFECTS (GENERAL)
SEE ALSO PHYSICAL AND/OR CHEMICAL AGENTS INTERACTION (BIOLOGICAL AND ECOLOGICAL), POLLUTANTS INTERACTION
SEE ALSO TOXICOLOGY
SEE ALSO TOXICOLOGY, ENVIRONMENTAL
P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury - Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)
M P01HL-06370-17 Cardiopulmonary and renal pathology research center
P01HL-06370-17 0015 Cardiopulmonary and renal pathology research center - Pathogenesis of chemically induced tissue injury (rats)
R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
** P01HL-16137-05 0008 Alveolar biology - Macromolecular events in pulmonary cells in toxic environments (animals)
R23HL-21327-02 Molecular mechanisms of chemical myocardiopathies (rats)
R23HL-21369-02 Tracheal mucin synthesis in experimental bronchitis (rats)
R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)

ENVIRONMENTAL POLLUTANTS (GENERAL)
SEE ENVIRONMENTAL HEALTH, CONTAMINATION (GENERAL)

ENVIRONMENTAL POLLUTANTS ASSOCIATED RESPIRATORY DISORDERS
SEE RESPIRATORY DISORDERS, ENVIRNOMENTAL POLLUTANTS ASSOCIATED

ENVIRONMENTAL TOXICOLOGY
SEE TOXICOLOGY, ENVIRONMENTAL

ENZYME COMPLEXES
R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
R01HL-13035-08 Heart mitochondrial malate dehydrogenase regulation
R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
P50HL-14147-08 0006 Specialized center of research in thrombosis - Clearance mechanisms of coagulation moieties (human, rabbits, rodents)
R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
R01HL-14992-07 Mechanism of thrombin action (human)
R01HL-16549-04 Cardiotonic steroid-NaK ATPase interactions (cattle)
** R01HL-16628-05 Regulation of lipid metabolism (rats)
R01HL-17559-03 Structural elucidation of heart cytochrome-C oxidase
R01HL-18089-04 Fatty acid metabolism in heart and its regulation (swine, rats)
R01HL-18304-03 FT-infrared spectroscopy of heart muscle energetics (cattle)
R01HL-19129-04 Cardiac glycosides--Mechanisms of cellular actions
R01HL-20794-02 Prostaglandin synthesis in human platelets (also in sheep, rabbit)
R01HL-21120-02 Membrane dynamics in alveolar macrophages (rabbits)
R01HL-22050-01 Organization of succinic oxidase in heart
R01HL-22174-01 Assembly of membranes in heart and yeast mitochondria
** R01HL-22538-01 Myosin as a multi-enzyme complex (dogs, rabbits)
R01HL-22996-01 Venom proteases--Action on plasma protease inhibitors (human)
R01HL-23161-01 0003 Biology of myocardial ischemia Phosphorylase coupling to myocardial sarcoplasmic reticulum (dog)

ENZYME DEFICIENCY DISORDERS
SEE METABOLIC DISORDERS INBORN

ENZYME DEREPRESSION
SEE ENZYME INDUCTION REPRESSION DEREPRESSION

ENZYME ELECTRODES
SEE ELECTRODES, ENZYME*

ENZYME FEEDBACK
** P01HL-06285-18 0207 Cardiovascular-respiratory physiology and biochemistry - Feedback control of cholesterol synthesis in non-hepatic tissues (animals)
P50HL-14147-08 0013 Specialized center of research in thrombosis - Mathematical models of blood coagulation kinetics
R01HL-18219-04 Regulation of cholesterol metabolism (rats)

ENZYME IMMOBILIZATION
SEE ALSO ELECTRODES, ENZYME*
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)

ENZYME INDUCTION
SEE ENZYME INDUCTION-REPRESSION-DEREPRESSION

ENZYME INDUCTION-REPRESSION-DEREPRESSION
R01HL-03734-18 Metabolism of arterial tissue in atherosclerosis (rabbits)
P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)
R01HL-11901-12 0012 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Animal atherosclerosis implications (pigeons, dogs, rabbits)
** R01HL-12138-08 Nutritional regulation of enzyme activity (rats, human)
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
** R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
** R01HL-13035-08 Heart mitochondrial malate dehydrogenase regulation
** R01HL-13630-08 Control of glycogen synthesis in heart (cattle)
P50HL-14230-07 0099 A/S SCOR--Lipids, atherosclerosis and thrombosis - Morphological, cytochemical study of normal and altered vasculature (mice)
P01HL-14388-07 0172 Regulation of the circulation in pathological states - cAMP-dependent protein kinase from heart and vascular smooth muscle (guinea pigs)
** P01HL-14388-07 0194 Regulation of the circulation in pathological states - Dopamine-beta-hydroxylase localization and release in hypertension
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
** R01HL-15979-05 Elastase, serum inhibitors and the vasculature (human, swine)
P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
** R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
P01HL-18974-03 0009 Experimental neurogenic hypertension program - Biochemistry of brain tyrosine hydroxylase (rats)
P01HL-18974-03 0010 Experimental neurogenic hypertension program - Biochemistry and regulation of PNMT in brain (rats)
R01HL-19181-02 Regulation of heart cAMP-dependent protein kinase (rodents)
** R01HL-19237-03 Obstructive lung disease and alveolar macrophages (human, animals)
R01HL-19654-03 Biochemical-pharmacological evaluation of lung cells (rabbits)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R01HL-20807-02 Detection of familial hypercholesterolemia (human)
R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
R01HL-21246-02 Roles of cholesterol and its metabolic regulation (CHO cell mutants)
R23HL-21421-01 Myocardial and vascular contractility and cyclic nucleotides (cattle, rats)
R01HL-22242-01 The converting enzyme of lung (cattle, human)
R01HL-22265-02 Isozymes of heart glutamate aspartate transaminase (swine, ducks)
R01HL-22266-01 Production of proteases by lung cells in culture (human, rodents, rabbits, sheep)
** R23HL-22383-01 Biosynthesis--Response to oxygen depletion (human, primates, rats)
R01HL-22486-01 Enzyme regulation in cultured arterial cells (swine)
R01HL-22538-01 Myosin as a multi-enzyme complex (dogs, rabbits)

ENZYME INHIBITORS
SEE ALSO BLOOD COAGULATION, ANTITHROMBIN
SEE ALSO PEPTIDES, VASOACTIVE PEPTIDES, ANTIRENIN
P01HL-08805-15 0047 Regulation of ventilation and pulmonary circulation Extracranial metabolic control of ventilation (dogs, goats)
R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
R01HL-10612-13 0019 Humoral factors in heart failure and hypertension Pathogenesis of hypertension in the spontaneous hypertensive rat
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
R01HL-12585-10 Structural properties of malate dehydrogenase (swine)
R01HL-13035-08 Heart mitochondrial malate dehydrogenase regulation
R01HL-13160-08 Human thrombin (also cattle)
** R01HL-13587-06 Synthesis of renin inhibitors and analog phosphatides (rats)
R01HL-13715-08 Myocardial adenyl cyclase (rats)
P50HL-14192-08 0004 Specialized center of research in hypertension - Isolation and characterization of pure renin (swine, rats, human, rabbits)
P50HL-14214-07 0026 Newborn lung center for hyaline membrane disease - Hemodynamic studies of HMD--Prostaglandins production and blockers (lambs)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
R01HL-14509-07 Hypertension--Chemistry and biophysics of angiotensin
P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
R01HL-15476-05 Mechanism and control of sterol biosynthesis (rats)
P01HL-15832-06 0004 Chemical-structural predispositions to lung injury - Proteolytic activity leucocytes in patients with obstructive lung disease
R01HL-16240-05 The cardiac histamine receptor (rabbits, guinea pigs)
R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)
R01HL-16796-05 Cholesterol regulation by HMG-CoA reductase (rats, human)
R01HL-16872-04 Antihemophilic factor (human)
R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
** R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
P01HL-17871-04 0010 Kidney, sodium, cardiac output, arterioles and hypertension - Renal prostaglandins metabolism in hypertension (rats, dogs)
P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
P50HL-18323-04 0012 SCOR hypertension center - Renin as a risk factor (human)
P50HL-18323-04 0033 SCOR hypertension center - Core laboratory--Renin, aldosterone and bradykinin methodology
P50HL-18323-04 0042 SCOR hypertension center - Blood viscosity and blood volume in hypertensive disease (human, dog)
P50HL-18323-04 0044 SCOR hypertension center - Angiotensin blockade to identify angiotensin II factor in hypertension (human)
P50HL-18323-04 0046 SCOR hypertension center - Coronary artery bypass surgery--Associated hypertension (human)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
** R01HL-18598-03 Role of Na, K-ATPase inhibition on digitalis action
R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)
R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
P50HL-19153-02 0001 SCOR--Pulmonary edemas--Etiology, pathogenesis - Prostaglandins and the lung circulation (sheep)
R01HL-19237-03 Obstructive lung disease and alveolar macrophages (human, animals)
R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
** R01HL-19517-03 Synthesis of inhibitors for the study of renal renin (dogs, monkeys)
** R01HL-19538-03 Synthesis of potential antihypertensive agents
R01HL-19653-03 Circulatory system effects of angiotensin analogs (rats)
P01HL-19717-02 0002 Response of the lung to injury - Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)

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**Oriented significantly to above subject.

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R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)
R01HL-20544-02 Integrated regulation of myocardial energy metabolism (rats, guinea pigs)
R01HL-20577-03 The mechanism of action of vitamin K
R01HL-20658-01 Myocardial energy transport--Creative kinase (human, cattle, dog)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
P01HL-20984-02 0001 Cellular mechanisms in cardiac hypertrophy - Contractile proteins in cardiac hypertrophy (rabbits, calves)
R01HL-21274-01 Prorenin-Physiological and biochemical analysis (human)
R23HL-21421-01 Myocardial and vascular contractility and cyclic nucleotides (cattle, rats)
R01HL-21457-01 C(17)-side group geometry and cardenolide activity (cats, guinea pigs)
R01HL-21540-02 Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs)
R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
R01HL-22288-01 Renin and precursors--Structure and function (mice)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R23HL-22438-01 The etiology of genetic hypertension (rats)
P01HL-22619-01 0004 Cellular mechanisms of heart failure - Mechanism of action of Na, K-ATPase (sheep, cattle)
** R01HL-22813-01 Palmitylcarnitine inhibition of ion pumps in ischemia (dogs)
R01HL-22990-01 Angiotensin II receptors--Mechanisms of regulation (rats)
** R01HL-22996-01 Venom proteases--Action on plasma protease inhibitors (human)
R01HL-23161-01 0002 Biology of myocardial ischemia - Palmitylcarnitine inhibition of ion pumps in myocardial ischemia (dog, sheep)
** N01HR-72921-01 Cystic fibrosis factor identification and quantification (human)

ENZYME INHIBITORS, ANTIESTERASES

R01HL-15690-07 Hydrolytic enzymes of blood in health and disease (human, animals)

ENZYME INHIBITORS, CARBONIC ANHYDRASE INHIBITORS

P01HL-07896-15 0019 Environmental biomedical research program - Hyperoxic myopia (human)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
P01HL-17731-04 0010 Physiological basis of pulmonary disease - Gas exchange kinetics (dogs)
R01HL-17963-04 Human erythrocyte carbonic anhydrase
R01HL-19008-02 Carbon dioxide diffusion in lung and muscle tissues (dogs)
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase

ENZYME INHIBITORS, DECARBOXYLASES INHIBITORS

R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)

ENZYME INHIBITORS, ELASTASE INHIBITORS

R01HL-15979-05 Elastase, serum inhibitors and the vasculature (human, swine)
P01HL-19717-02 0003 Response of the lung to injury - The role of elastolysis in emphysema (hamsters, rabbits)
P01HL-19717-02 0016 Response of the lung to injury - The alveolar macrophage in elastase emphysema (guinea pigs, hamsters)
R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
R23HL-22437-01 Leukotactic mediators in lung inflammatory reactions (rats, rabbits, human)
R01HL-23595-01 Experimental emphysema--Depression of protease inhibitors (rats, hamsters)

ENZYME INHIBITORS, MONOAMINE OXIDASE INHIBITORS

R01HL-12647-08 Inactivation of norepinephrine in vascular tissue
P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotherapeutic drugs and cardiovascular system (human, rats)
P01HL-16251-06 0007 Membrane-bound enzymes in heart and other tissues - Flavins and flavoproteins
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
R01HL-20194-01 Brain catecholamines in control of blood pressure (rats)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)

ENZYME INHIBITORS, OXIDOREDUCTASE INHIBITORS

R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)

ENZYME INHIBITORS, PHOSPHATASE INHIBITORS

R01HL-19129-04 Cardiac glycosides--Mechanisms of cellular actions

ENZYME INHIBITORS, PHOSPHODIESTERASE INHIBITORS

P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
P01HL-12738-10 0109 Physiologic pharmacology and its clinical applications - Effects of calcium blockers on skeletal and cardiac muscle (cats)
R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in RDS (sheep, cat)
P01HL-15835-06 0018 Study of muscles related to heart disease - Pharmacology of excitation coupling in muscle (frog, barnacles)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
** R01HL-19062-03 Pharmacologic control of mast cell phosphodiesterase (human, rats)
** R01HL-19325-03 Phosphodiesterase inhibition and muscle contraction
** R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors
R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)

ENZYME INHIBITORS, PROTEASE INHIBITORS (GENERAL)

R01HL-03180-21 Relation of lymphatics to cardiopulmonary function (dogs)
P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
P50HL-14192-08 0005 Specialized center of research in hypertension - New techniques for recognition of renovascular hypertension (human, dogs)
R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
** R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
R01HL-14778-10 Proteolytic enzymes and inhibitors in lung disease (mammals, human)
** R01HL-15892-05 Inhibitors of proteinases (human, cattle, swine)
R01HL-15965-06 Experimental atherosclerosis and elastin metabolism (chicks)
P01HL-16387-04 0008 The blood vessel and thrombogenesis - Factor VIII in hemostasis (human, rabbits)
R01HL-16920-02 Proteases in normal and immunologically injured lung (guinea pigs, rabbits)
R01HL-18618-04 Purification and function of human HMW kininogen
R01HL-18625-03 Organization of arterial ground substance (cattle)
** R01HL-18679-04 Synthetic protease inhibitors
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
** P50HL-18828-03 0002 Specialized center of research in thrombosis - Endothelial cell biology (human, guinea pig)
** P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
** R01HL-19514-03 Proteinase inhibitor model with clinical potential
** R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)
R01HL-20199-02 Drug-induced alterations in infarct size in the rat
R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
R01HL-20337-02 Thromboembolic diseases (human)
P01HL-20552-02 0001 The development and regression of cardiac hypertrophy - Biochemical events in cardiac hypertrophy (rats)
R01HL-20666-02 Cell biology of platelet preservation (human)
M P01HL-20994-02 Dynamics of neutrophil elastase in the lung
** P01HL-20994-02 0005 Dynamics of neutrophil elastase in the lung - Protease inhibitors in pulmonary inflammation and emphysema (rabbits)
** P01HL-20994-02 0006 Dynamics of neutrophil elastase in the lung - Protease inhibitors in human bronchial mucus
R01HL-21113-01 Control mechanisms in coagulation (cattle)
R23HL-21411-02 Control of extracellular lysosomal hydrolase levels (rats)
R01HL-21540-02 Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs)
R23HL-22799-01 Interaction of the complement and coagulation systems (monkeys)
R01HL-22896-01 Immediate metabolic fates of kinins and angiotensins (rat, rabbit, guinea pig)
R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)
** R01HL-23595-01 Experimental emphysema--Depression of protease inhibitors (rats, hamsters)

ENZYME INHIBITORS, TRYPSIN INHIBITORS

P01HL-06314-17 0051 Immunologic mechanisms in cardiovascular disease - Conformational studies of phospholipid membranes and proteins
R01HL-15817-06 Plasminogen activators from tissues (human, pig, cattle)
R01HL-15892-05 Inhibitors of proteinases (human, cattle, swine)
R01HL-15979-05 Elastase, serum inhibitors and the vasculature (human, swine)
P01HL-18577-03 0005 Lipoproteins--Cell surface interactions - Chemical synthesis of apolipoproteins and apolipoprotein fragments
R01HL-19514-03 Proteinase inhibitor model with clinical potential
P01HL-20994-02 0006 Dynamics of neutrophil elastase in the lung - Protease inhibitors in human bronchial mucus

ENZYME INHIBITORS, TRYPSIN INHIBITORS, ANTITRYPSIN

R01HL-04366-19 Plasminogen--Activation and structure-function relations (mammals, birds)
R01HL-09739-13 Biophysical studies of proteins (human)
** R01HL-14865-07 Biochemical studies on the pathogenesis of emphysema (human, rats)
R01HL-15125-07 Molecular pathology of genetic disorders in man
** R01HL-15892-05 Inhibitors of proteinases (human, cattle, swine)
** R01HL-16166-05 Structure of alpha-1-antitrypsin in relation to emphysema (human)
** R01HL-17194-03 Comparison of two inherited forms of alpha-1-antitrypsin (human)
P01HL-17430-05 0005 Control of coagulation - The activation of prothrombin (human, cattle, dogs)
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
** R01HL-18876-03 Human alpha-1-antitrypsin synthesis in vitro
P50HL-19157-02 0008 Studies in cystic fibrosis and bronchiolitis - Serum proteins in cystic fibrosis (human)
R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
** R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)
M P01HL-20994-02 Dynamics of neutrophil elastase in the lung
** P01HL-20994-02 0004 Dynamics of neutrophil elastase in the lung - Mechanism of enzyme inhibition by alpha-1 antitrypsin (cattle)
P01HL-20994-02 0005 Dynamics of neutrophil elastase in the lung - Protease inhibitors in pulmonary inflammation and emphysema (rabbits)

ENZYME MECHANISMS

R01HL-01974-24 Ion-pump in the erythrocyte (rabbits, guinea pigs)
R01HL-01979-22 Arteriosclerosis in zoo animals on controlled diets (animals)
R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
** R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
R01HL-02986-21 Zonal renal change with potassium deficiency (rats, human)
R01HL-03734-18 Metabolism of arterial tissue in atherosclerosis (rabbits)
R01HL-05209-18 Lipid metabolism (monkeys)
R01HL-05360-19 Cholesterol biosynthesis and its control in liver (rats)
P01HL-06285-18 0210 Cardiovascular-respiratory physiology and biochemistry - Physicochemical and enzymatic studies of lung surfactant (Halobacterium)
P01HL-06308-18 0040 Mechanisms and therapy of circulatory disease - Metabolism and fatty acid utilization--Heart electrical stability (rats, dogs)
P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)

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P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease Genetics and cell biology
P01HL-06314-17 0057 Immunologic mechanisms in cardiovascular disease Antigens in cardiovascular disease (human)
P01HL-07896-15 0049 Environmental biomedical research program Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
P01HL-08214-15 0041 Chemical and biological properties of lipids Physico-chemical regulation of enzymes in lipid metabolism
** R01HL-08634-15 Enzymic cholesterol synthesis (human, rats, protozoa, yeast)
P01HL-08899-14 0055 Tolerance to respiratory gases in health and disease - Oxygen effects on organ functions Extension of tolerance
P01HL-09011-15 0021 A research and resource program in blood - Regulation of transfer RNA methylating enzymes (rats, E coli)
R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
P01HL-11351-12 0019 Cellular and molecular mechanisms of myocardial function - Mechano-chemical kinetics of small perturbations
R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-12138-08 Nutritional regulation of enzyme activity (rats, human)
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
R01HL-12647-08 Inactivation of norepinephrine in vascular tissue
** R01HL-12684-09 Angiotensin I and converting enzyme in hypertension (human, primates, dogs)
R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
** R01HL-12944-09 Enzymatic and biochemical studies on blood cells (human)
R01HL-13193-09 athophysiology of post-traumatic and shock states (rodents, dogs)
P01HL-13262-07 0015 Arterial wall in atherosclerosis - Crosslinkage biosynthesis in aortic elastin and collagen (animals)
R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
R01HL-13630-08 Control of glycogen synthesis in heart (cattle)
** R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
P50HL-14138-05 0014 Center for research on atherosclerosis - Core biostatistics laboratory
P50HL-14138-05 0015 Center for research on atherosclerosis - Arterial wall--Intermediary metabolism, enzyme activity and bioenergetics
P50HL-14141-05 0003 SCOR for atherosclerosis in childhood - Detection of abnormalities in lipid metabolism (human, rabbits, rats)
P50HL-14192-08 0004 Specialized center of research in hypertension - Isolation and characterization of pure renin (swine, rats, human, rabbits)
P50HL-14214-07 0015 Newborn lung center for hyaline membrane disease - Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal)
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in RDS (sheep, cat)
** P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
** P01HL-14388-07 0173 Regulation of the circulation in pathological states - Mechanisms of cardiac myosin ATPase
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
** R01HL-14456-07 Lung metabolism--Enzymes in the pulmonary circulation (human, animals)
R01HL-14509-07 Hypertension--Chemistry and biophysics of angiotensin
R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
R01HL-14890-07 Platelet prostaglandins (human, rabbits)
R01HL-14990-07 Lipid transport in avian species (chickens)
R01HL-14992-07 Mechanism of thrombin action (human)
** P50HL-15062-07 0008 Study of lipoproteins, artery wall, and atherosclerosis--Lipid modifying enzymes (human, monkey)
P60HL-15170-05 0017 Support for center for sickle cell anemia - Control of hemoglobulin synthesis (human)
R01HL-15376-06 Intermediary metabolism of sterols (mice)
R01HL-15567-05 Cardiovascular phosphoinositide metabolism (rats)
P01HL-15832-06 0001 Chemical-structural predispositions to lung injury - Chemical composition of lung connective tissue proteins (human, animals)
P01HL-15832-06 0002 Chemical-structural predispositions to lung injury - Connective tissue in lung in development and repair of injury (human, rats, mice)
P01HL-15832-06 0004 Chemical-structural predispositions to lung injury - Proteolytic activity leucocytes in patients with obstructive lung disease
P01HL-15832-06 0008 Chemical-structural predispositions to lung injury Interstitial fibrosis--Connective tissue components in normal and diseased lungs
** P01HL-15832-06 0009 Chemical-structural predispositions to lung injury - Immunology-Enzyme degradation products of human lung elastin and microfibril
P01HL-15832-06 9001 Chemical-structural predispositions to lung injury - Tissue culture studies of lung cell function--Core facility
** R01HL-15887-05 Enzymes of blood coagulation and fibrinolysis (human)
R01HL-15979-05 Elastase, serum inhibitors and the vasculature (human, swine)
P60HL-15999-05 0021 Miami comprehensive sickle cell center - Diphosphonates--Erythrocyte calcium loading, maturation (human, chick embryo)
R01HL-16101-05 Protein-lipid interaction (bacteria, models)
M P01HL-16251-06 Membrane-bound enzymes in heart and other tissues
P01HL-16251-06 0002 Membrane-bound enzymes in heart and other tissues - Structural basis of regulation of cardiac succinate dehydrogenase
** P01HL-16251-06 0003 Membrane-bound enzymes in heart and other tissues - Regulation of cardiac succinate dehydrogenase (yeasts, mammals)
P01HL-16251-06 0007 Membrane-bound enzymes in heart and other tissues - Flavins and flavoproteins
** P01HL-16251-06 0008 Membrane-bound enzymes in heart and other tissues - Iron-sulfur centers and phospholipids modulation of succinate dehydrogenase
P01HL-16251-06 0009 Membrane-bound enzymes in heart and other tissues - NADH dehydrogenase and site I of oxidative phosphorylation (yeast)
** P01HL-16251-06 0010 Membrane-bound enzymes in heart and other tissues - Reversible activation of L-amino acid oxidase (snakes)
R01HL-16294-04 Effectors of cholesterol synthesis (rats)
** R01HL-16346-09 Enzyme assay for blood clotting (human)
** R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
R01HL-16577-04 Lipoprotein lipase chemistry and function (rats, cattle, human)
R01HL-16588-05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
R01HL-16628-05 Regulation of lipid metabolism (rats)
R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
** R01HL-16647-05 Studies on the control of sickle cell crisis (human)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
R01HL-16796-05 Cholesterol regulation by HMG-CoA reductase (rats, human)
P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-induced membrane damage in Hb SS disease (human, animals)
** P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
** P60HL-17269-04 0015 National heart and blood vessel research and demonstration center - Lipoprotein metabolism laboratory (human)
P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
** R01HL-17371-05 Regualtion of cholesteryl ester levels in the aorta (swine)
R01HL-17437-03 'Perfusion lung'--Role of traumatized leukocytes (dogs, human)
R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)
R01HL-17551-04 Biosynthesis and metabolism of procollagen (human, monkeys, mice)
R01HL-17596-03 Leukocyte-endothelial interactions (rats)
R01HL-17597-05 Role of plasma lipoproteins in atherosclerosis (swine, human)
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
P50HL-17648-04 0023 Study of ischemic heart disease Chemical mediators of inflammation in acute myocardial infarction (mammals)
P50HL-17648-04 0027 Study of ischemic heart disease Phospholipid metabolism following cardiac injury and repair (rat)
** P50HL-17667-04 0012 Study of ischemic heart disease Biochemistry of normal and ischemic heart-Glycolysis (rats)
P50HL-17682-04 0018 Study of ischemic heart disease Biochemistry of ischemia-Heart cell and organ culture (mice, rats, cattle)
** R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
R01HL-17729-04 Stimulus-response coupling in platelets (human)
R01HL-17783-04 Complex carbohydrates-Structure, function, synthesis (swine)
R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
** R01HL-17976-18 Chemical agents and heart glycolytic enzymes (sheep)
** R01HL-18089-04 Fatty acid metabolism in heart and its regulation (swine, rats)
R01HL-18094-04 Regulation of cholesterol biosynthesis (rats)
** R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
R01HL-18219-04 Regulation of cholesterol metabolism (rats)
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)
R01HL-18460-01 Effects of prolonged hypoperfusion on the myocardium (rabbits)
R01HL-18502-03 Enzymatic regulation of platelet function (human)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
R01HL-18560-03 Cardiovascular adaptation to stress (miniature swine)
P01HL-18574-03 0005 Lipoprotein methodology and biomedical applications - Structure and function of lipoproteins
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
R01HL-18618-04 Purification and function of human HMW kininogen
R01HL-18647-03 Ischemic myocardial injury in cultured heart cells (rats)
R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)
R01HL-18764-03 Biosorbable thromboresistant surfaces (dogs, rats, swine, human)
R01HL-18826-04 Interaction of peptides and target cells in lung (human)
** P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
R01HL-18908-03 Angiotensin converting enzyme of human serum
R01HL-18936-02 Heart preservation and transplantation studies (rat)
R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)
R01HL-19000-03 Irreversible myocardial injury (rats)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
R01HL-19063-03 Cholesterol and lipoprotein metabolism (rat hepatocytes)
R01HL-19077-01 Biochemistry and molecular biology of sarcoidosis (human, rabbits)
R01HL-19129-04 Cardiac glycosides--Mechanisms of cellular actions
R01HL-19132-04 Role of zinc transferrin in lymphocyte transformation (human)
R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
R01HL-19237-03 Obstructive lung disease and alveolar macrophages (human, animals)
P01HL-19242-02 0001 Study of vascular smooth muscle - Energy metabolism and protein turnover in vascular smooth muscle (rats)
** R01HL-19250-03 Mechanism of plasma cholesterol esterification (human)
R23HL-19605-01 Lipid requirement of the lung mono-oxygenase system (rabbits)
P01HL-19717-02 0001 Response of the lung to injury - Lung elastic tissue (animals)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-19717-02 0002 Response of the lung to injury - Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)
P01HL-19717-02 0003 Response of the lung to injury - The role of elastolysis in emphysema (hamsters, rabbits)
** P01HL-19717-02 0004 Response of the lung to injury - Regulatory and physical-chemical properties of lung lysyl oxidase (animals)
** P01HL-19717-02 0022 Response of the lung to injury - Localization of enzymes and sites of action in experimental emphysema (hamsters)
P01HL-19737-02 0005 Cellular and molecular aspects of respiratory physiology - Interaction of respiratory exchanges and blood gas parameters (human, animals)
R01HL-20143-02 Hypothermic circulatory arrest--Cerebral vascular change (dogs)
R01HL-20199-02 Drug-induced alterations in infarct size in the rat
R01HL-20219-02 Cryopreservation of the isolated heart (rats)
R01HL-20301-02 Genetics of glycosyltransferases in human blood
R01HL-20408-03 Hyperlipidemia in diabetics during muscular training (human)
R01HL-20794-02 Prostaglandin synthesis in human platelets (also in sheep, rabbit)
R01HL-20846-02 Purification of bovine plasminogen proactivator
R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
R01HL-20878-02 Cellular aspects of lung injury (rats, rabbits)
R01HL-20925-01 The acetylation of fetal hemoglobin (human)
P01HL-20948-02 0001 Molecular basis of cholesterol metabolism - Biochemical and ultrastructural characterization of LDL in human fibroblasts
P01HL-20993-02 0006 Population dynamics of arterial cells in atherogenesis - Mechanism of regression of atherosclerosis by diet and injury (swine)
P01HL-20994-02 0004 Dynamics of neutrophil elastase in the lung - Mechanism of enzyme inhibition by alpha-1 antitrypsin (cattle)
** P01HL-20994-02 0007 Dynamics of neutrophil elastase in the lung - The etiology of experimental emphysema (dogs)
R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)
R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
** R23HL-21189-01 Regulation of pulmonary endothelial cell activities (human, cattle)
R23HL-21225-02 Connective tissue precursor molecules in the lung (rabbits, hamsters)
R23HL-21271-02 Extracorporeal circulation and protein denaturation (human)
** R01HL-21274-01 Prorenin--Physiological and biochemical analysis (human)
R23HL-21327-02 Molecular mechanisms of chemical myocardiopathies (rats)
** R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
** R23HL-21421-01 Myocardial and vascular contractility and cyclic nucleotides (cattle, rats)
R01HL-21480-01 Structure, source and functions of alveolar glycoproteins (human, rabbits)
R01HL-21628-02 Biosynthesis of lung surfactant lipid (rabbit)
R01HL-21874-01 SRS-A--Its biosynthesis and action
** R23HL-21894-01 Pulmonary angiotensin converting enzyme (cattle)
** R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
R23HL-22075-01 Metabolism of arachidonic acid in blood vessels (chickens, mammals)
R01HL-22088-02 Metabolic basis for diabetic microangiopathy (cattle)
R01HL-22121-02 Dyslipoproteinemia in diabetes and vascular disease (human)
** R01HL-22242-01 The converting enzyme of lung (cattle, human)
R01HL-22259-01 Modification of susceptibility to oxygen poisoning (rats)
R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)
R01HL-22387-01 Metalloenzymes and disease
R23HL-22437-01 Leukotactic mediators in lung inflammatory reactions (rats, rabbits, human)
R01HL-22486-01 Enzyme regulation in cultured arterial cells (swine)
R01HL-22500-01 Conversion of choline to phosphatidylcholine in lung (rabbits, pigs)
R01HL-22530-01 Active site studies on blood proteases (human)
R01HL-22651-01 Control of protein metabolism in heart muscle
** R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)
R01HL-22924-01 The airway mucosal barrier (guinea pigs)
R01HL-22967-01 Structure and function of heparin releasable lipases (swine, human)
R01HL-23013-01 Smooth muscle development in vitro (chick embryo)
R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)
R01HL-23969-01 Surfactant synthesis by type II cells in vitro (rats)
R01HL-23981-01 Acute alveolar injury (dogs)

ENZYME MODELS

P50HL-14147-08 0013 Specialized center of research in thrombosis - Mathematical models of blood coagulation kinetics

ENZYME RECONSTITUTION

R01HL-12576-10 Bioenergetics apparatus in heart mitochondria
R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
R01HL-18905-04 Acquisition of native conformation of proteins (human, cattle)

ENZYME REPRESSION

SEE ENZYME INDUCTION-REPRESSION-DEREPRESSION

ENZYME STRUCTURE

R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
R01HL-04366-19 Plasminogen--Activation and structure-function relations (mammals, birds)
P01HL-08214-15 0027 Chemical and biological properties of lipids - Biological functions diol lipids (swine, rats, plants)
R01HL-08893-14 Structure and function of membrane proteins (human)
P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
** R01HL-12585-10 Structural properties of malate dehydrogenase (swine)
R01HL-13630-08 Control of glycogen synthesis in heart (cattle)
P50HL-14153-07 0015 Johns Hopkins Lung Center--Chronic diseases of airways - Kinins and human lung
P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
R01HL-14778-10 Proteolytic enzymes and inhibitors in lung disease (mammals, human)
R01HL-14990-07 Lipid transport in avian species (chickens)
P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
** P50HL-15062-07 0008 Study of lipoproteins, artery wall, and atherosclerosis - Lipid modifying enzymes (human, monkey)
** R01HL-15125-07 Molecular pathology of genetic disorders in man
R01HL-16101-05 Protein-lipid interaction (bacteria, models)
P01HL-16251-06 0001 Membrane-bound enzymes in heart and other tissues - Structure of covalently bound flavins (bacteria, yeast, mammals)
P01HL-16251-06 0002 Membrane-bound enzymes in heart and other tissues - Structural basis of regulation of cardiac succinate dehydrogenase
** R01HL-16686-04 Properties of cytochrome oxidase (cattle, bacteria)
R01HL-16796-05 Cholesterol regulation by HMG-CoA reductase (rats, human)
P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
R01HL-17371-05 Regualtion of cholesteryl ester levels in the aorta (swine)
** R01HL-17559-03 Structural elucidation of heart cytochrome-C oxidase
R01HL-17783-04 Complex carbohydrates--Structure, function, synthesis (swine)
R01HL-17879-04 Molecular structure of the ouabain sensitive ATPase (dogs)
R01HL-17963-04 Human erythrocyte carbonic anhydrase
** R01HL-17976-18 Chemical agents and heart glycolytic enzymes (sheep)
R01HL-18003-05 Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)
R01HL-18089-04 Fatty acid metabolism in heart and its regulation (swine, rats)
** R01HL-18094-04 Regulation of cholesterol biosynthesis (rats)
** R01HL-18095-04 Human dopamine-beta-hydroxylase (also cattle)
P01HL-18208-04 0007 Center for the study of blood cell rheology - RBC membrane protein (human)
R01HL-18272-03 Heart adenyl cyclase complex (beef heart)
** P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
** R01HL-18905-04 Acquisition of native conformation of proteins (human, cattle)
** R01HL-18908-03 Angiotensin converting enzyme of human serum
P01HL-18974-03 0009 Experimental neurogenic hypertension program - Biochemistry of brain tyrosine hydroxylase (rats)
P01HL-18974-03 0010 Experimental neurogenic hypertension program - Biochemistry and regulation of PNMT in brain (rats)
** P01HL-18974-03 0011 Experimental neurogenic hypertension program - Biochemistry and regulation of brain tryptophane hydroxylase (rats)
P01HL-18974-03 0015 Experimental neurogenic hypertension program - Neurochemistry core
R01HL-19392-03 Spectroscopic studies of respiratory metalloproteins
R01HL-19514-03 Proteinase inhibitor model with clinical potential
R01HL-20116-01 Heart lactate dehydrogenase--The complex with NAOH (pig)
** R01HL-20301-02 Genetics of glycosyltransferases in human blood
R01HL-20658-01 Myocardial energy transport--Creative kinase (human, cattle, dog)
R01HL-20794-02 Prostaglandin synthesis in human platelets (also in sheep, rabbit)
R01HL-21095-02 Enzymes of M tuberculosis and obstructive lung disease (human, rodents)
R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
R23HL-21411-02 Control of extracellular lysosomal hydrolase levels (rats)
R23HL-21894-01 Pulmonary angiotensin converting enzyme (cattle)
** R01HL-22050-01 Organization of succinic oxidase in heart
R01HL-22174-01 Assembly of membranes in heart and yeast mitochondria
R01HL-22242-01 The converting enzyme of lung (cattle, human)
R01HL-22265-02 Isozymes of heart glutamate aspartate transaminase (swine, ducks)
** R01HL-22530-01 Active site studies on blood proteases (human)
** P01HL-22619-01 0011 Cellular mechanisms of heart failure - Reaction of lipoproteins and apolipoproteins with lipoprotein lipase (cattle)
R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)
** R01HL-22967-01 Structure and function of heparin releasable lipases (swine, human)
R23HL-22984-01 Cyclic AMP dependent protein kinases in hypertension (rat)
R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)

ENZYME SUBSTRATE

** P01HL-06285-18 0134 Cardiovascular-respiratory physiology and biochemistry - Placental transfer in growth retarded fetuses (lambs)
P01HL-07896-15 0049 Environmental biomedical research program - Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
P01HL-11310-12 0080 Mechanisms of cardiovascular disease - Metabolism of the hypertrophied myocardium (human)
P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
P01HL-11310-12 0104 Mechanisms of cardiovascular disease - Structure of connective tissue proteoglycans (rabbits)
R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
R01HL-13160-08 Human thrombin (also cattle)
R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
P50HL-14214-07 0015 Newborn lung center for hyaline membrane disease - Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal)
P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
P60HL-17269-04 0015 National heart and blood vessel research and demonstration center - Lipoprotein metabolism laboratory (human)
P50HL-17667-04 0012 Study of ischemic heart disease - Biochemistry of normal and ischemic heart--Glycolysis (rats)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P50HL-17670-04 0022 Study of ischemic heart disease Myocardial metabolism in hypoxia and recover (rabbit, toad, dog)
R01HL-18089-04 Fatty acid metabolism in heart and its regulation (swine, rats)
R01HL-18143-03 Surgery and pulmonary tissue alterations (dogs, rats, human)
R01HL-18561-03 Radioimmunoassay of angiotensinogen (human)
R01HL-20388-03 Regulation of protein turnover in diabetic heart (rat)
R01HL-21140-01 Studies of pulmonary alveolar macrophage function (rabbits)
R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)
R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
R23HL-21894-01 Pulmonary angiotensin converting enzyme (cattle)
R01HL-22242-01 The converting enzyme of lung (cattle, human)
R01HL-22530-01 Active site studies on blood proteases (human)
R23HL-22818-01 Biosynthesis of human respiratory mucous glycoprotein (also dog)
R23HL-22984-01 Cyclic AMP dependent protein kinases in hypertension (rat)
R01HL-23161-01 0001 Biology of myocardial ischemia - Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)

ENZYME SUBSTRATE COMPLEX

R01HL-01662-25 Equilibria in the fibrinogen-fibrin conversion (human, cattle)
P50HL-15062-07 0008 Study of lipoproteins, artery wall, and atherosclerosis - Lipid modifying enzymes (human, monkey)
R01HL-16087-05 Structural and dynamic study of model heme complexes (yeast)
R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)
P01HL-17812-04 0001 Thrombosis and plasma proteins - Thrombosis and plasma proteins (cattle, guinea pigs)
R01HL-17963-04 Human erythrocyte carbonic anhydrase
R01HL-18272-03 Heart adenyl cyclase complex (beef heart)
** P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
** R01HL-20116-01 Heart lactate dehydrogenase--The complex with NAOH (pig)
R01HL-20658-01 Myocardial energy transport--Creative kinase (human, cattle, dog)
R23HL-21411-02 Control of extracellular lysosomal hydrolase levels (rats)
R01HL-22265-02 Isozymes of heart glutamate aspartate transaminase (swine, ducks)
R01HL-23161-01 0003 Biology of myocardial ischemia - Phosphorylase coupling to myocardial sarcoplasmic reticulum (dog)

ENZYME THERAPY

SEE ALSO GENETIC DISORDERS, GENE THERAPY
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
R01HL-21115-01 Prevention of 02 toxicity with superoxide dismutase (rats)

ENZYMES

SEE ALSO ALDOLASES
SEE ALSO AMIDINOTRANSFERASES
SEE ALSO AMINOHYDROLASES
SEE ALSO BIOLOGICAL TRANSPORT, TRANSPORT PROTEINS, PERMEASES
SEE ALSO CARBOHYDRASES
SEE ALSO CHEMICAL REACTIONS, CATALYSTS
SEE ALSO CHOLINE ESTERASES
SEE ALSO COENZYMES
SEE ALSO DEHYDRATASES
SEE ALSO ENZYME INHIBITORS
SEE ALSO ESTERASES
SEE ALSO HEMOPROTEINS, CYTOCHROME
SEE ALSO HYDROLASES
SEE ALSO ISOMERASES
SEE ALSO LIGASES
SEE ALSO LIPASES
SEE ALSO LIPID MOBILIZING FACTORS
SEE ALSO METALLOPROTEINS, FERREDOXIN
SEE ALSO NUCLEASES
SEE ALSO OXIDOREDUCTASES
SEE ALSO OXYGENASES
SEE ALSO PANCREAS, PANCREATIC ENZYMES
SEE ALSO PEROXIDASES
SEE ALSO PHOSPHATASES
SEE ALSO PHOSPHORYLASES
SEE ALSO PROTEASES AND PEPTIDASES
SEE ALSO RESPIRATORY PROTEINS, RESPIRATORY ENZYMES
SEE ALSO TRANSACYLASES
SEE ALSO TRANSFERASES
** P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology
P01HL-15832-06 0010 Chemical-structural predispositions to lung injury Kinin generating systems in pulmonary disease (human, animals)
P01HL-16769-05 0011 Pathobiologic and host defense reactions in the lung Core Laboratory for biomedical preparation (rabbits)
P50HL-17669-04 0011 Ischemic heart disease center (SCOR) Lysosomal function and lysosomal enzymes in normal and ischemic heart (rabbit)
R01HL-18554-03 Taurine metabolism in mammalian heart (rodents, cattle, swine)
R01HL-20909-02 Clofibrate enhanced lipid oxidation by peroxisomes (rats)

ENZYMES, APOENZYMES

R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)

ENZYMES, EXOENZYMES

** R01HL-21095-02 Enzymes of M tuberculosis and obstructive lung disease (human, rodents)
R23HL-21411-02 Control of extracellular lysosomal hydrolase levels (rats)

ENZYMES, FETAL ENZYMES

R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)

ENZYMES, HYBRID ENZYMES

R01HL-16628-05 Regulation of lipid metabolism (rats)

ENZYMES, ISOENZYMES

SEE ALSO ENZYMES, FETAL ENZYMES
P01HL-03174-23 0006 Mechanisms of acute vascular reaction to injury - Atherosclerotic plaque studies using mosaic analysis (human)
P01HL-06285-18 0164 Cardiovascular-respiratory physiology and biochemistry - CPK MB isoenzyme concentration to quantify infarct size (human, animals)
** P01HL-06312-17 0053 Surgical cardiology - Enzyme pattern following cardiac surgery (human)
R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)
P01HL-12157-11 0055 Functions and mechanisms of cell membrane ion transport - Growth and development of synthetic strand heart cells in culture (chick embryo)
** R01HL-12585-10 Structural properties of malate dehydrogenase (swine)
R01HL-12690-09 Systemic and local vascular adjustment in shock (monkeys, cats)
R01HL-13626-06 Lipoprotein lipase and lipoprotein removal (human, rats, bacteria)
P50HL-14192-08 0004 Specialized center of research in hypertension - Isolation and characterization of pure renin (swine, rats, human, rabbits)
R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
R01HL-15125-07 Molecular pathology of genetic disorders in man
R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
** P50HL-17646-04 0005 Study of ischemic heart disease - Biochemical markers and mediators of myocardial ischemic injury
P50HL-17646-04 0006 Study of ischemic heart disease - Mathematical models for predicting infarct size using CPK and other markers
** P50HL-17646-04 0007 Study of ischemic heart disease - Prediction of myocardial ischemic injury by analysis of plasma CPK isoenzymes
P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
P50HL-17651-04 0039 Ischemic heart disease specialized center of research - Measurement and prediction of infarct size (human, dog)
** P50HL-17665-04 0008 Study of ischemic heart disease - Core laboratory--CPK isoenzyme measurement and myocardial necrosis evaluation
** P50HL-17667-04 0043 Study of ischemic heart disease - Quantitation of myocardial infarct size by serial enzyme measurements (human)
P50HL-17669-04 0001 Ischemic heart disease center (SCOR) - Radioimmunoassays for CPK isoenzyme and myoglobin (human, dog)
P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
** P50HL-17670-04 0017 Study of ischemic heart disease - Core enzymology laboratory (human)
P50HL-17670-04 0021 Study of ischemic heart disease - Enzymatic evaluation of acute myocardial infarction (dogs)
P50HL-17682-04 0010 Study of ischemic heart disease - Core clinical enzyme laboratory (human, mice, dogs, rats)
P50HL-17682-04 0018 Study of ischemic heart disease - Biochemistry of ischemia--Heart cell and organ culture (mice, rats, cattle)
R01HL-17963-04 Human erythrocyte carbonic anhydrase
R01HL-17976-18 Chemical agents and heart glycolytic enzymes (sheep)
R01HL-18567-03 A routine diagnostic test for minimal heart damage (human, rat)
R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)
R01HL-18908-03 Angiotensin converting enzyme of human serum
R01HL-19062-03 Pharmacologic control of mast cell phosphodiesterase (human, rats)
R01HL-19974-02 Psychologic behavioral influences on heart pathology (rats)
P01HL-20552-02 0010 The development and regression of cardiac hypertrophy Energy metabolism in the hypertrophied heart animals
R01HL-20658-01 Myocardial energy transport Creative kinase (human, cattle, dog)
R01HL-21628-02 Biosynthesis of lung surfactant lipid (rabbit)
R01HL-22242-01 The converting enzyme of lung (cattle, human)
** R01HL-22265-02 Isozymes of heart glutamate aspartate transaminase (swine, ducks)
R01HL-22288-01 Renin and precursors--Structure and function (mice)
R01HL-22664-01 Regulation of myocardial cell growth (rats, guinea pigs)
R01HL-22967-01 Structure and function of heparin releasable lipases (swine, human)
R23HL-22984-01 Cyclic AMP dependent protein kinases in hypertension (rat)

ENZYMES, METALLOENZYMES

** R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)
R01HL-18679-04 Synthetic protease inhibitors
R01HL-18905-04 Acquisition of native conformation of proteins (human, cattle)
R01HL-19132-04 Role of zinc transferrin in lymphocyte transformation (human)
** R01HL-19392-03 Spectroscopic studies of respiratory metalloproteins
R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
** R01HL-22387-01 Metalloenzymes and disease

ENZYMES, ZYMOGENS

R01HL-04366-19 Plasminogen--Activation and structure-function relations (mammals, birds)
P50HL-15062-07 0008 Study of lipoproteins, artery wall, and atherosclerosis - Lipid modifying enzymes (human, monkey)
R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
R01HL-20106-02 Coupling of platelet contractile proteins to fibrin (human)
R01HL-21113-01 Control mechanisms in coagulation (cattle)
R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)
R01HL-22505-01 Molecular pathology of fibrinogen and factor XIII (human, animals)
** R01HL-22980-01 Kinetic and mechanistic studies of blood coagulation (human, cattle)

EOSINOPHIL LEUKOCYTES

SEE BLOOD CELLS, LEUKOCYTES, EOSINOPHILS

EPICARDIAL MAPPING

SEE HEART VISUALIZATION, EPICARDIAL MAPPING

EPIDEMIOLOGIC STUDIES REVIEW COMMITTEE

** R01HL-22472-01 Smoking risk-factor reduction--Maintenance strategies (human)

EPIDEMIOLOGY, EPIDEMIOLOGIC METHODS

SEE POPULATION STUDIES HUMAN, EPIDEMIOLOGY

EPIDEMIOLOGY AND DISEASE CONTROL STUDY SECTION

** R01HL-03341-22 Epidemiology of atherosclerosis in Evans Co Georgia
** R01HL-03429-18 Central nervous system and coronary heart disease (human)
** R01HL-12833-09 Genetic and environmental influences on lung disease (human)
** R01HL-13974-07 Ventricular premature beats and sudden coronary death (human)
** R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
** R01HL-15191-07 Multiparameter methods for cardiovascular research
** R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
** R01HL-15790-06 Follow-up study of acute coronary heart attacks (human)
** R01HL-16403-05 Prognostication by computer--Analyzed vectorcardiogram (human)
** R01HL-16461-05 Late results of valve replacement--Computer analysis (human)
** R01HL-16651-05 Evaluation of steroid therapy in sarcoidosis (human)
** R01HL-17580-04 The impact of stress on coronary heart disease (men)
** R01HL-18175-03 Drug taking for hypertension in a rural community
** R01HL-18235-03 Cardiovascular fitness and other risk factors (human)
** R01HL-18456-03 Cardiovascular follow-up of hypertensive adolescents

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-18683-03 Left ventricle function in aortic regurgitation (human)
** R01HL-18715-02 Hypertension incidence project (human)
** R01HL-18850-03 Classification code for Frank orthogonal ECG
** R01HL-18907-03 Objective evaluation early after MI and heart surgery (human)
** R01HL-19073-02 Heart disease and drinking water at home
** R01HL-19877-02 Prevention of high blood pressure in children
** R01HL-20124-02 Coronary risk factors (human)
** R01HL-20179-02 Epidemiology of sudden cardiac death among women
** R01HL-20637-02 Recovery after heart surgery--Bio-behavioral factors (human)
** R01HL-20662-02 Physical activity, fitness and epidemiology of CHD
** R01HL-20724-01 Behavioral consequences of hypertension (human)
** R01HL-21039-02 Vascular lesions of diabetes in Oklahoma Indians
** R01HL-21088-02 Genetic patterns in deaths from MI and stroke in Utah
** R01HL-21352-02 Community studies of obstructive lung disease (human)
** R01HL-21527-01 Prospective study of bundle branch block (human)
** R01HL-21971-01 Atherosclerotic disease and risk factors in twins (human)
** R01HL-22255-01 The etiology/prevalence of peripheral arterial disease (human)
** R01HL-22378-01 Psyco-somatic predictors of CHD in adolescence (human)
** R01HL-22514-01 Behavior patterns, stress, and catecholamines
** R01HL-22528-02 Early risk predictors for chronic pulmonary disease (human)
** R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)
** R01HL-22740-01 Behavior and cardiovascular disease--Basic mechanisms (human)
** R01HL-22802-01 A rural mining community hypertension control project (human)
** R01HL-22809-01 Coronary-prone behavior and cardiovascular reactivity (human)
** R01HL-22838-01 Post-transfusion hepatitis in newborn children
** R18HL-22934-01 Behavorial approaches to adolescent hypertension
** R01HL-22982-01 Multicenter postcoronary risk stratification program (human)

EPIDEMIOLOGY OF CARDIOVASCULAR DISORDERS
SEE CARDIOVASCULAR DISORDERS EPIDEMIOLOGY

EPIDEMIOLOGY OF MENTAL DISORDERS
SEE MENTAL HEALTH EPIDEMIOLOGY

EPIDEMIOLOGY OF NEOPLASTIC DISEASE
SEE NEOPLASTIC DISEASE EPIDEMIOLOGY-STATISTICS

EPIDEMIOLOGY OF NERVOUS DISORDERS
SEE NERVOUS DISORDERS EPIDEMIOLOGY

EPIDEMIOLOGY OF RESPIRATORY DISORDERS
SEE RESPIRATORY DISORDERS EPIDEMIOLOGY

EPIDERMAL GROWTH FACTOR
SEE GROWTH FACTORS (INCL. ANABOLICS), EPIDERMAL GROWTH FACTOR

EPIDERMIS
SEE SKIN (GENERAL)

EPIDIDYMIS
SEE REPRODUCTIVE SYSTEM MALE, EPIDIDYMIS AND DUCTS

EPILEPSY
SEE BRAIN DISORDERS, EPILEPSY

EPINEPHRINE
SEE PHENYLALKYLAMINES, CATECHOLAMINES, EPINEPHRINE

EPISTAXIS
SEE NASAL DISORDERS, EPISTAXIS

EPITHELIAL MYOCYTES
SEE MUSCLE CELLS, MYOEPITHELIAL CELLS

EPITHELIAL TRANSPORT DISORDERS INBORN
SEE METABOLIC DISORDERS INBORN, TRANSPORT DISORDERS

EPITHELIUM
SEE TISSUE, EPITHELIUM

EPIZOOTIOLOGY
SEE POPULATION STUDIES ANIMAL, EPIZOOTIOLOGY

EPOXIDES
SEE OXIDES, EPOXIDES

EPSTEIN-BARR VIRUS
SEE VIRUSES, HERPESVIRUSES, EB VIRUS

EQUILIBRIUM SENSE
SEE SENSORY-PERCEPTUAL PROCESSES, PROPRIOCEPTION

EQUIPMENT, LABORATORY
SEE BIOMEDICAL FACILITIES

EQUIPMENT FOR ANIMAL CARE
SEE ANIMALS, VETERINARY SCIENCE, ANIMAL CARE

ERGOT ALKALOIDS
SEE ALKALOIDS, ERGOT

ERYTHEMA
SEE SKIN DISORDERS, ERYTHEMA

ERYTHROBLASTIC ANEMIA (MEGALOBLASTIC)
SEE BLOOD AND RE DISORDERS, ANEMIA MEGALOBLASTIC

ERYTHROBLASTOSIS FETALIS ABO NEWBORN
SEE BLOOD GROUP INCOMPATIBILITY PERINATAL, ABO HEMOLYTIC DISEASE NEWBORN

ERYTHROBLASTS
SEE BLOOD CELLS, ERYTHROBLASTS AND ERYTHROID STEM CELLS

ERYTHROCEBUS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS (CATARRHINES)*

ERYTHROCUPREIN
SEE METALLOPROTEINS, CYTOCUPREINS

ERYTHROCYTE GHOST
SEE MEMBRANE, ERYTHROCYTE GHOST AND MEMBRANE

ERYTHROCYTE MEMBRANE
SEE MEMBRANE, ERYTHROCYTE GHOST AND MEMBRANE

ERYTHROCYTE SEDIMENTATION
SEE BLOOD (HEMATOLOGIC) TESTS, BLOOD SEDIMENTATION, ERYTHROCYTE*

ERYTHROCYTES
SEE BLOOD CELLS, ERYTHROCYTES

ERYTHROID STEM CELLS
SEE BLOOD CELLS, ERYTHROBLASTS AND ERYTHROID STEM CELLS

ERYTHROLEUKEMIA
SEE NEOPLASMS OF BLOOD AND RE SYSTEM, LEUKEMIA, ERYTHROLEUKEMIA

ERYTHROPOIESIS
SEE BLOOD AND RE SYSTEM, HEMATOPOIESIS, ERYTHROPOIESIS

ERYTHROPOIETIC INHIBITORS
SEE BLOOD AND RE SYSTEM, HEMATOPOIETIC FACTORS, ERYTHROPOIETIC INHIBITORS

ERYTHROPOIETIC PROTOPORPHYRIA
SEE METABOLIC DISORDERS INBORN, PORPHYRIA, PROTOPORPHYRIA

ERYTHROPOIETIN
SEE BLOOD AND RE SYSTEM, HEMATOPOIETIC FACTORS, ERYTHROPOIETIN

ESCAPE REACTION
SEE PSYCHOLOGY, BEHAVIOR, ESCAPE REACTION

ESERINE
SEE BENZOPYRROLES, PHYSOSTIGMINE

ESOPHAGEAL VARICES
SEE GASTROINTESTINAL CIRCULATORY DISORDERS, ESOPHAGEAL VARICES

ESOPHAGUS
SEE GASTROINTESTINAL SYSTEM, ESOPHAGUS

ESR
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, ESR*

ESSENTIAL FATTY ACIDS
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY LIPIDS, ESSENTIAL FATTY ACIDS

ESTERASES
SEE ALSO ENZYME INHIBITORS, ANTIESTERASES
SEE ALSO PHOSPHODIESTERASES
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
R01HL-15817-06 Plasminogen activators from tissues (human, pig, cattle)
R01HL-18089-04 Fatty acid metabolism in heart and its regulation (swine, rats)
R01HL-21008-02 Effect of pollutants on organotypic lung cultures (rats)
R01HL-21513-02 Metabolism of trans fatty acids (human, rats, swine)
R01HL-23969-01 Surfactant synthesis by type II cells in vitro (rats)

ESTERASES, CHOLESTEROL ESTERASE
** R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
P01HL-13262-07 0015 Arterial wall in atherosclerosis - Crosslinkage biosynthesis in aortic elastin and collagen (animals)
P01HL-13262-07 0025 Arterial wall in atherosclerosis - Phospholipid and cholesterol esters
R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
R01HL-14781-08 Lipid deposition in mammalian cells (mice)
** R01HL-17371-05 Regualtion of cholesteryl ester levels in the aorta (swine)
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
R01HL-18682-03 Protein kinase and cholesterol metabolism in aorta (rabbits)
R01HL-20061-02 Serum lipoproteins and cell cholesterol metabolism (rats, human)

ESTERIFICATION
** P01HL-06835-17 0015 Cardiovascular disease - Plasma cholesterol esterification in canine atherosclerosis
P01HL-06835-17 0063 Cardiovascular disease - Studies on prostaglandins (human, rabbits)
R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
P50HL-14164-07 0035 A/S SCOR--Comparative and experimental atherosclerosis - Lipid metabolism--Interaction with arterial metabolism (monkey, pigeon)
R01HL-14990-07 Lipid transport in avian species (chickens)
R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells

ESTERS
P01HL-08214-15 0005 Chemical and biological properties of lipids - Metabolism of lipids in animals
** P01HL-15596-05 0012 Coagulation, fibrinolysis, hemostasis and hepatitis - Platelet function--Phorbol ester and zymosan-induced release activity

ESTIVATION
SEE ENVIRONMENT, ADAPTATION, ESTIVATION

ESTRADIOL
SEE ESTRATRIENE SERIES, ESTRADIOL

ESTRATRIENE SERIES, ESTRADIOL
R01HL-10612-13 0021 Humoral factors in heart failure and hypertension The control of aldosterone secretion (dogs)
P01HL-16387-04 0002 The blood vessel and thrombogenesis - Hormonal effects on thrombogenesis (rats, rabbits)
** R01HL-19322-03 Role of pituitary hormones in the action of vitamin K (rats)
R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)

ESTRATRIENE SERIES, ESTRIOL
R01HL-10612-13 0021 Humoral factors in heart failure and hypertension - The control of aldosterone secretion (dogs)

ESTRATRIENE SERIES, ESTROGENS
SEE ALSO ESTRATRIENE SERIES, ESTRADIOL
SEE ALSO ESTRATRIENE SERIES, ESTRIOL
R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
R01HL-08888-12 Cooperative study of drugs and coronary heart disease (men)
R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
P01HL-14388-07 0232 Regulation of the circulation in pathological states - Idiopathic cyclic edema
R01HL-14526-07 Oral contraceptives and hypertension (rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-14692-D6 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
** P01HL-14985-07 0015 Adaptation to hypoxia - Pregnancy at high altitude (human, animals)
RD1HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
RD1HL-158D8-D6 Role of angiotensinogen in hypertension and stroke (human, rabbits)
RD1HL-16512-D4 Lipoprotein metabolism and hormonal regulation (chickens)
RD1HL-17721-04 Effect of sex hormones on vascular connective tissue (rats)
RD1HL-18D02-03 Circulatory shock, trauma and RE system function (rats)
P01HL-18574-03 00D6 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
RD1HL-1861D-03 Early intervention of age related arterial changes (pigeon)
P01HL-18645-03 0D03 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
P01HL-18645-D3 DD07 Biology of the artery wall and atherosclerosis - Lipoprotein metabolism in subhuman primates
RD1HL-18731-02 RES stimulating materials in experimental shock (dogs)
R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
** R01HL-2D645-01 Etiology of myocardial infarction (human)
** R01HL-2D685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)
R01HL-21418-02 Experimental myocardial infarction (rats)
** R01HL-22D79-01 Heart receptor sites for digitalis and steroid hormones (animals)
** R01HL-22367-01 Estrogen receptors in very low density lipoproteins (chicken livers)
R01HL-22812-01 Regulation of hepatic production of HDL (rats)

ESTRATRIENE SERIES, MESTRANOL
SEE ALSO FERTILITY, ANTIFERTILITY DRUGS, MESTRANOL-NORETHYNODREL
R01HL-12557-D9 Effects of steroids and pregnancy on arteries and veins (guinea pigs)
R01HL-14526-07 Oral contraceptives and hypertension (rats)
** RD1HL-17724-03 Oral contraceptives and hypertension (rats)
R01HL-19144-03 Contraceptive steroids and experimental hypertension (rats)

ESTRIOL
SEE ESTRATRIENE SERIES, ESTRIOL

ESTROGENS
SEE ESTRATRIENE SERIES, ESTROGENS

ETHANOL, ETHYL ALCOHOL
SEE ALCOHOLS, ETHANOL

ETHANOLAMINES
SEE AMINO ALCOHOLS, ETHANOLAMINES

1,4-ETHANOPIPERIDINES
SEE QUINUCLIDINES

ETHERS
SEE ALSO HALOETHERS
SEE ALSO OXIDES, EPOXIDES
R01HL-19203-D3 Surgical approach to congenital heart diseases (dogs, primates)
RD1HL-21367-02 Polyether ionophores--Synthesis of X537A and analogs
RD1HL-22612-01 Stabilized prostacyclins to treat vascular disease

ETHERS, GLYCEROL ETHERS
SEE LIPIDS, GLYCERYL ETHERS

ETHIONINE
SEE SULFUR AMINO ACIDS, ETHIONINE

ETHNIC GROUPS
SEE SOCIAL GROUPS, ETHNIC

ETHOLOGY (ANIMAL BEHAVIOR)
SEE PSYCHOLOGY, BEHAVIOR ANIMAL

ETHRANE
SEE HALOETHERS, ETHRANE

24BETA-ETHYL CHOLESTEROL
SEE CHOLESTANE SERIES, BETA-SITOSTEROL

ETHYLENEDIAMINE TETRAACETIC ACID
SEE AMINO ACIDS, ETHYLENEDIAMINO ACIDS, EDTA

ETHYLENE GLYCOL
SEE ALCOHOLS, DIOLS, ETHYLENE GLYCOL

ETHYLENE SUCCINIC ACID
SEE DICARBOXYLIC ACIDS, SUCCINIC ACID

ETIDRONATE
SEE PHOSPHATES, ALKYL PHOSPHATES, ETIDRONATE

ETIOCHOLANOLONE
SEE ANDROSTANE SERIES 5 BETA ETIOCHOLANOLONE

EUCHROMATIN
SEE GENETICS, CHROMOSOMES

EUKARYOTIC CELLS (ORGANISMS)
SEE CELLS (ORGANISMS), EUKARYOTIC (SEE ALSO SPECIFICS)

EUMYCOPHYTA
SEE FUNGI*

EVALUATION
SEE COMPUTER, DESIGN AND EVALUATION OF COMPUTERS (INCL HARDWARE)
SEE HOSPITALS ANALYSIS
SEE INFORMATION AND COMMUNICATION, SYSTEMS ANALYSIS
SEE THERAPY EVALUATION

EVALUATION AND ANALYSIS OF SYSTEMS (GENERAL)
SEE INFORMATION AND COMMUNICATION, SYSTEMS ANALYSIS

EVALUATION OF BIOMEDICAL RESEARCH PROGRAMS
SEE HEALTH SCIENCES RESEARCH ANALYSIS-EVALUATION-PLANNING

EVALUATION OF DIAGNOSTIC QUALITY-STANDARDS
SEE DIAGNOSTIC QUALITY-STANDARDS

EVALUATION (SCREENING) OF DRUGS
SEE DRUGS SCREENING

EVALUATION OF EDUCATIONAL PROGRAMS (SYSTEMS)
SEE EDUCATION PROGRAMS (SYSTEMS) EVALUATION-PLANNING

EVALUATION OF HEALTH CARE QUALITY
SEE HEALTH CARE QUALITY

EVALUATION OF HEALTH PERSONNEL PERFORMANCE
SEE HEALTH SCIENCES PROFESSIONS, HEALTH PERSONNEL PERFORMANCE

EVALUATION OF HEALTH SERVICES AND RESOURCES
SEE HEALTH CARE (SERVICES)(RESOURCES) ANALYSIS AND EVALUATION

EVALUATION OF INFORMATION GATHERING METHODS (GENERAL)
SEE INFORMATION GATHERING METHODS EVALUATION-STANDARDS

EVALUATION OF INSTRUMENTATION, CLINICALLY ORIENTED
SEE BIOMEDICAL ENGINEERING, INSTRUMENTATION CLINICALLY ORIENTED

EVALUATION OF INSTRUMENTATION, NOT CLINICALLY ORIENTED
SEE BIOMEDICAL ENGINEERING, INSTRUMENTATION NOT CLINICALLY ORIENTED

EVOKED POTENTIALS
SEE ELECTROPOTENTIALS, EVOKED POTENTIALS

EVOLUTION
SEE BIOLOGY, SYSTEMATIC, EVOLUTION AND PHYLOGENY

EVOLUTION BIOCHEMICAL
SEE BIOLOGY, SYSTEMATIC, EVOLUTION BIOCHEMICAL

EXCHANGE DIFFUSION
SEE BIOLOGICAL TRANSPORT, PASSIVE TRANSPORT, DIFFUSION

EXCHANGE TRANSFUSION
SEE BLOOD TRANSFUSION, EXCHANGE

EXCIPIENTS
SEE DRUGS VEHICLES

EXCRETION
SEE BIOLOGICAL TRANSPORT, SECRETORY MECHANISMS, EXCRETION

EXERCISE
SEE HEALTH, PHYSICAL ACTIVITY, EXERCISE

EXERCISE ELECTROCARDIOGRAPHY
SEE CARDIOVASCULAR DISORDERS DIAGNOSIS, EXERCISE STRESS TESTING*

EXERCISE STRESS TESTING
SEE CARDIOVASCULAR DISORDERS DIAGNOSIS, EXERCISE STRESS TESTING*

EXERTION
SEE HEALTH, PHYSICAL ACTIVITY, EXERCISE

EXOCYTOSIS
SEE BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, PINOCYTOSIS

EXOENZYMES
SEE ENZYMES, EXOENZYMES

EXOTOXINS
SEE IMMUNOLOGY, ANTIGENS BACTERIAL, EXOTOXINS

EXPECTANCY
SEE PSYCHOLOGY, COGNITION, EXPECTANCY

EXPECTORANTS
SEE RESPIRATORY DRUGS, EXPECTORANTS AND MUCOLYTICS

EXPERIMENTAL PSYCHOLOGY STUDY SECTION
** R01HL-17706-D4 Psychosocial hypertension, catecholamines and drugs (mice)
** RD1HL-17958-D4 Circulatory effects of operant cardiovascular control (baboons)
** RD1HL-18814-D3 Behavior[illegible] for clinical cardiac control (human[illegible]
[illegible] 4273[illegible]
blood pressure [illegible]
** RD1HL-18976-03 Blood pressure control Relation to behavioral stress (human [illegible])
** RD1HL-19568-D3 Hypertension--Analysis of drug and behavioral therapies (human)
** RD1HL-19680-D1 Cardiac correlates of behavioral stress in animals (dog)
** RD1HL-19974-02 Psychologic behavioral influences on heart pathology (rats)
** RD1HL-2D861-D1 Caro[illegible]spiratory-renal stress rea[illegible]ions (dogs)

EXPERIMENTAL VIROLOGY STUDY SECTION
** R01HL-19163-D2 Piscine erythrocytic necrosis in the Atlantic cod
** RD1HL-19164-03 Piscine erythrocytic necrosis in the Atlantic cod
** R01HL-19381-D3 Pathogenesis of viral induced atherosclerosis (human, chicken)
** RD1HL-21D47-01 Studies of coxsackievirus-induced myocarditis in mice
** R01HL-23588-01 NDV infection--Analysis at the subcellular level (chickens)

EXTINCTION (PSYCHOLOGY)
SEE PSYCHOLOGY, CONDITIONING, EXTINCTION

EXTRACELLULAR ENZYMES
SEE ENZYMES, EXOENZYMES

EXTRACELLULAR SPACE
SEE BODY FLUIDS, EXTRACELLULAR SPACE (COMPARTMENT)

EXTRACORPOREAL CIRCULATION
SEE CARDIOVASCULAR SURGERY, EXTRACORPOREAL CIRCULATION

EXTRACORPOREAL DIALYSIS
SEE BLOOD TREATMENT, HEMODIALYSIS

EXTRATERRESTRIAL, SUPRATERRESTRIAL ENVIRONMENT
SEE ENVIRONMENT, EXTRATERRESTRIAL, SUPRATERRESTRIAL

EXTREMITIES
SEE SKELETAL SYSTEM, LIMB

EXTRINSIC FACTOR
SEE VITAMIN B12

EXTRINSIC SURFACE ACTIVITY OF MEMBRANES
SEE MEMBRANE SURFACE (BIOLOGICAL) ACTIVITY (GENERAL)

EXUDATES AND TRANSUDATES
SEE BODY FLUIDS, EXUDATES AND TRANSUDATES

EYE, AQUEOUS HUMOR
PD1HL-08899-14 DD03 Tolerance to respiratory gases in health and disease - Inert gas exchange in the eye (human, dogs)

EYE, CONJUNCTIVA
RD1HL-22118-02 Microcirculation in patients with diabetes mellitus

EYE, CORNEA
** P01HL-226D2-01 0DD3 Pathophysiology of the endothelium - Mechanisms of endothelial proliferation (human, animals)

EYE, LENS
P01HL-08899-14 0003 Tolerance to respiratory gases in health and disease - Inert gas exchange in the eye (human, dogs)

EYE, PHOTORECEPTORS
PD1HL-14388-D7 9DD3 Regulation of the circulation in pathological states - Electron probe projects

EYE, RETINA
** P01HL-D6664-17 DD36 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
PD1HL-08899-14 DDD7 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on visual function (human, animals)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number

P01HL-08899-14 0049 Tolerance to respiratory gases in health and disease - Dose-response measures of severe oxygen toxicity (monkeys)
** P01HL-08899-14 0051 Tolerance to respiratory gases in health and disease - Oxygen effects upon isolated retinal metabolism (rabbits, monkeys)
P01HL-14388-07 9003 Regulation of the circulation in pathological states - Electron probe projects

EYE, TRABECULARMESHWORK
P60HL-15168-070005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)

EYE,VISION
SEE ALSO BRAIN, VISUAL PATHWAYS
P01HL-08899-14 0047 Tolerance to respiratory gases in health and disease - Oxygen effects on visual function (human)
** P01HL-08899-14 0048 Tolerance to respiratory gases in health and disease - Changes in human vision during known tolerable exposures

EYE, VISION, COLOR VISION
P01HL-08899-14 0048 Tolerance to respiratory gases in health and disease - Changes in human vision during known tolerable exposures

EYE, VISION, DARK ADAPTATION
P01HL-08899-14 0048 Tolerance to respiratory gases in health and disease - Changes in human vision during known tolerable exposures

EYE, VISUAL FIELDS
** P01HL-08899-14 0007 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on visual function (human, animals)
P01HL-08899-14 0047 Tolerance to respiratory gases in health and disease - Oxygen effects on visual function (human)
P01HL-08899-14 0048 Tolerance to respiratory gases in health and disease - Changes in human vision during known tolerable exposures
P01HL-08899-14 0067 Tolerance to respiratory gases in health and disease - Inert gas influences upon visual function in man

EYE, VISUAL PERCEPTION
P01HL-07896-15 0019 Environmental biomedical research program - Hyperoxic myopia (human)
P01HL-08899-14 0007 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on visual function (human, animals)

EYE, VISUAL PIGMENTS
P01HL-08899-14 0047 Tolerance to respiratory gases in health and disease - Oxygen effects on visual function (human)
P01HL-08899-14 0049 Tolerance to respiratory gases in health and disease - Dose-response measures of severe oxygen toxicity (monkeys)
** P01HL-08899-14 0050 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on visual pigment functions (monkeys)

EYE, VISUAL STIMULUS
P50HL-14214-07 0032 Newborn lung center for hyaline membrane disease - Evoked electroencephalographic potential in infants with HMD (human)

EYE, VITREOUS BODY
P01HL-08899-14 0003 Tolerance to respiratory gases in health and disease - Inert gas exchange in the eye (human, dogs)

EYE CIRCULATION
R01HL-22118-02 Microcirculation in patients with diabetes mellitus

EYE CIRCULATION, OPHTHALMIC ARTERY
R01HL-19038-02 Plethysmographic evaluation of carotid blood flow (human, rabbits, dogs)

EYE CIRCULATION, RETINAL ARTERIES
P01HL-07896-15 0019 Environmental biomedical research program - Hyperoxic myopia (human)

EYE CIRCULATION, RETINAL-CHOROIDAL CIRCULATION
** P01HL-07896-15 0051 Environmental biomedical research program - Relationships of retinal circulation to disease (rabbits)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)

EYE CIRCULATORY DISORDERS
SEE ALSO EYE DISORDERS, RETROLENTAL FIBROPLASIA
** P60HL-15168-07 0005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)

EYE CIRCULATORY DISORDERS, RETINAL CIRCULATORY DISORDERS
SEE ALSO CARBOHYDRATES METABOLISM DISORDERS, DIABETIC RETINOPATHY
** P01HL-07896-15 0051 Environmental biomedical research program - Relationships of retinal circulation to disease (rabbits)
P50HL-14217-08 0063 Specialized center of research in thrombosis - Special clinical studies laboratory
P50HL-14230-07 0097 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)
P60HL-15168-07 0005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)

EYE CIRCULATORY DISORDERS, RETINAL (INCLUDING VITREOUS) HEMORRHAGE
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
P60HL-15168-07 0005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)
** P01HL-21016-02 0016 Sickle cell anemia and other hemoglobinopathies - The treatment of sickle cell retinopathy (human)
R01HL-21117-01 Altitude adaptation in chronic lung disease (human)

EYE DISORDERS
SEE ALSO CARBOHYDRATES METABOLISM DISORDERS, DIABETIC RETINOPATHY
P01HL-08899-14 0003 Tolerance to respiratory gases in health and disease - Inert gas exchange in the eye (human, dogs)
P60HL-15158-07 0011 Comprehensive sickle cell center - Clinical services--Adult patients
** P60HL-15168-07 0005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)

EYE DISORDERS, GLAUCOMA
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase

EYE DISORDERS, LENS DISORDERS, CATARACT
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)

EYE DISORDERS, PAPILLEDEMA
R01HL-21117-01 Altitude adaptation in chronic lung disease (human)

EYE DISORDERS, RETINA AND CHOROID DISORDERS (GENERAL)
SEE ALSO CARBOHYDRATES METABOLISM DISORDERS, DIABETIC RETINOPATHY
P60HL-15168-07 0002 Comprehensive sickle cell disease center - Patient care
** P60HL-15168-07 0005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)

EYE DISORDERS, RETINA AND CHOROID DISORDERS, RETINA DETACHMENT
P60HL-15168-07 0005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)
P01HL-21016-02 0016 Sickle cell anemia and other hemoglobinopathies - The treatment of sickle cell retinopathy (human)

EYE DISORDERS, RETROLENTAL FIBROPLASIA
** P01HL-08899-14 0047 Tolerance to respiratory gases in health and disease - Oxygen effects on visual function (human)

EYE DISORDERS CHEMOTHERAPY
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase

EYE DISORDERS DIAGNOSIS (INCL EXAMS)*
P01HL-07896-15 0019 Environmental biomedical research program - Hyperoxic myopia (human)

EYE DISORDERS DIAGNOSIS, PUPILLOGRAPHY*
P01HL-08899-14 0051 Tolerance to respiratory gases in health and disease - Oxygen effects upon isolated retinal metabolism (rabbits, monkeys)

EYE DISORDERS DIAGNOSIS, RETINOGRAPHY*
** R01HL-14148-07 0004 The regional circulations - Funduscopic mapping by photography (human)

EYE DISORDERS DIAGNOSIS, RETINOGRAPHY, ELECTRORETINOGRAPHY*
P01HL-08899-14 0007 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on visual function (human, animals)
P01HL-08899-14 0048 Tolerance to respiratory gases in health and disease - Changes in human vision during known tolerable exposures
P01HL-08899-14 0049 Tolerance to respiratory gases in health and disease - Dose-response measures of severe oxygen toxicity (monkeys)
P01HL-08899-14 0051 Tolerance to respiratory gases in health and disease - Oxygen effects upon isolated retinal metabolism (rabbits, monkeys)

EYE EXAMINATIONS
SEE EYE DISORDERS DIAGNOSIS (INCL EXAMS)*

EYE INJURIES
SEE INJURIES, EYE

EYE REFRACTIVE DISORDERS, MYOPIA
** P01HL-07896-15 0019 Environmental biomedical research program - Hyperoxic myopia (human)

EYE SURGERY
** P60HL-15168-07 0005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)
P01HL-21016-02 0016 Sickle cell anemia and other hemoglobinopathies - The treatment of sickle cell retinopathy (human)

EYE SURGERY, VITRECTOMY
P60HL-15168-07 0005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)

FACILITATED DIFFUSION
SEE BIOLOGICAL TRANSPORT, PASSIVE TRANSPORT, DIFFUSION

FACILITIES
SEE ANIMAL FACILITIES, RESOURCES
SEE BIOMEDICAL ENGINEERING, INSTRUMENTATION CENTERS
SEE BIOMEDICAL FACILITIES
SEE BIOMEDICAL SYSTEMS AUTOMATED
SEE COMPUTER CENTERS
SEE HEALTH CARE FACILITIES (GENERAL)
SEE STATISTICAL SERVICE AND CENTERS

FACTOR I DEFICIENCY
SEE BLOOD COAGULATION DISORDERS, AFIBRINOGENEMIA

FACTOR II
SEE BLOOD COAGULATION, PROTHROMBIN

FACTOR II DEFICIENCY
SEE BLOOD COAGULATION DISORDERS, HYPOPROTHROMBINEMIAS

FACTOR III
SEE BLOOD COAGULATION, THROMBOPLASTIN

FACTOR V
SEE BLOOD COAGULATION, FACTOR V

FACTOR VI
SEE BLOOD COAGULATION, FACTOR V

FACTOR VII
SEE BLOOD COAGULATION, FACTOR VII

FACTOR VII DEFICIENCY
SEE BLOOD COAGULATION DISORDERS, FACTOR VII DEFICIENCY

FACTOR VIII
SEE BLOOD COAGULATION, FACTOR VIII

FACTOR VIII DEFICIENCY
SEE BLOOD COAGULATION DISORDERS, HEMOPHILIA

FACTOR IX
SEE BLOOD COAGULATION, FACTOR IX

FACTOR IX DEFICIENCY
SEE BLOOD COAGULATION DISORDERS, CHRISTMAS DISEASE

FACTOR X
SEE BLOOD COAGULATION, FACTOR X

FACTOR XI
SEE BLOOD COAGULATION, FACTOR XI

FACTOR XI DEFICIENCY
SEE BLOOD COAGULATION DISORDERS, FACTOR XI DEFICIENCY

FACTOR XII
SEE BLOOD COAGULATION, HAGEMAN FACTOR

FACTOR XIII
SEE BLOOD COAGULATION, FIBRIN STABILIZING FACTOR

FAD
SEE FLAVIN NUCLEOTIDES, RIBOFLAVIN NUCLEOTIDES, FAD

FAILURE TO THRIVE INTRAUTERINE
SEE PREGNANCY DISORDERS, EMBRYO-FETAL GROWTH-DEVELOPMENT DISORDERS (SEE ALSO APPROPRIATE SPECIFICS)

FAILURE TO THRIVE POSTNATAL
SEE GROWTH DISORDERS POSTNATAL (SEE ALSO APPROPRIATE SPECIFICS)

FAINTING
SEE NEUROLOGIC MANIFESTATIONS, SYNCOPE

FAMILIAL DISORDERS
SEE GENETIC DISORDERS (SEE ALSO APPROPRIATE CONGENITAL ABNORMALITIES)

FAMILIAL DISORDERS, METABOLIC ERRORS
SEE METABOLIC DISORDERS INBORN

FAMILIAL DYSAUTONOMIA
SEE CONGENITAL ABNORMALITIES, NEUROLOGICAL, DYSAUTONOMIA FAMILIAL

FAMILY
SEE ALSO CHILDREN

(contd)

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P60HL-15158-07 0009 Comprehensive sickle cell center Counseling and social services
P60HL-15169-05 0017 Support for center for sickle cell disease - Study of the natural history of sickle cell disease in the home
** R25HL-18414-03 Hypertension--Family strategies for patient adherence
R01HL-19877-02 Prevention of high blood pressure in children
R01HL-20910-02 The alternative diet for coronary disease prevention (human)
R01HL-22021-01 Asthma in families-- Behavior analysis of family interaction pattern
** N01HR-72973-01 Health education and attitudes of family toward asthmatic children
N01HR-72974-01 Self-management systems for asthmatic children

FAMILY, CHILD REARING
R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)

FAMILY, MARRIAGE
R01HL-20179-02 Epidemiology of sudden cardiac death among women

FAMILY, MATERNAL BEHAVIOR
** R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)

FAMILY, PARENT-OFFSPRING
P50HL-14141-05 0001 SCOR for atherosclerosis in childhood - Clinical implications (infants and children)
R01HL-22021-01 Asthma in families-- Behavior analysis of family interaction pattern

FAMILY, PARENTS
R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)

FAMILY, TWINS AND MULTIPLETS
R01HL-03429-18 Central nervous system and coronary heart disease (human)
P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
** R01HL-19930-03 A prospective study--Blood pressure in newborn twins
R01HL-20034-03 Hypertension--Psychophysiologic and genetic precursors (human)
R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
** R01HL-21971-01 Atherosclerotic disease and risk factors in twins (human)
** N01HV-53010-03 NAS-NRC twin registry
N01HV-72917-00 Plasma lipoproteins in identical twins

FAMILY MEDICINE
SEE HEALTH CARE SERVICES, PATIENT CARE MANAGEMENT, COMPREHENSIVE CARE, FAMILY MEDICINE

FAMILY PLANNING
SEE ALSO FERTILITY
SEE ALSO FERTILITY, ANTIFERTILITY DRUGS
SEE ALSO GENETIC DISORDERS, GENETIC COUNSELING
SEE ALSO POPULATION STUDIES HUMAN
SEE ALSO PREGNANCY
P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies--Dimensions, effectiveness
P60HL-15170-05 0030 Support for center for sickle cell anemia - Adult services--Counseling program

FAMILY THERAPY
SEE PSYCHOTHERAPY, FAMILY THERAPY

FARMERS
SEE OCCUPATIONS, AGRICULTURAL WORKERS

FARMER'S LUNG
SEE RESPIRATORY DISORDERS, PNEUMONITIS ALLERGIC INTERSTITIAL, FARMER'S LUNG

FARNESYL COMPOUNDS
SEE TERPENES, FARNESYL COMPOUNDS

FAST REACTIONS (CHEMISTRY)
SEE CHEMICAL REACTION RATES, FAST REACTIONS

FASTING
SEE NUTRITION, DIET, FASTING

FAT CELLS
SEE CONNECTIVE TISSUE, ADIPOSE, FAT CELLS

FAT EMBOLISM
SEE CARDIOVASCULAR DISORDERS, EMBOLISM, FAT

FAT INDUCED HYPERLIPEMIA FAMILIAL
SEE METABOLIC DISORDERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE I

FAT MOBILIZING FACTOR, PITUITARY
SEE LIPID MOBILIZING FACTORS PITUITARY

FAT TRANSPORT
SEE LIPIDS TRANSPORT

FATIGUE
SEE HEALTH, PHYSICAL ACTIVITY, FATIGUE

FATS
SEE LIPIDS, FATS

FATTY ACID BINDING PROTEIN (Z PROTEIN)
SEE PROTEINS, Z PROTEIN

FATTY ACID SYNTHETASE ACTIVITY
SEE LIGASES, FATTY ACID SYNTHETASE COMPLEX

FATTY ACIDS
SEE ALSO NUTRITION, DIETARY CONSTITUENTS, DIETARY LIPIDS, ESSENTIAL FATTY ACIDS
N01HI-32926-10 Analysis of lipoproteins (animals)
R01HL-02751-21 Function and metabolism of serum albumin (mammals, fish, amphibians)
** P01HL-06835-17 0018 Cardiovascular disease Fatty acid concentration (rats)
** P01HL-06835-17 0019 Cardiovascular disease Fatty acid distribution (rats)
P01HL-08214-15 0005 Chemical and biological properties of lipids - Metabolism of lipids in animals
P01HL-08214-15 0006 Chemical and biological properties of lipids - Analysis and properties of lipids
** P01HL-08214-15 0030 Chemical and biological properties of lipids - Fatty acid biosynthesis in plant cell cultures and in plants
P01HL-08214-15 0040 Chemical and biological properties of lipids - Nuclear magnetic resonance studies of lipids
R01HL-09364-14 Ion transport by heart mitochondria (cattle, rat, rabbit)
R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)
R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
R01HL-14461-08 Cardiac metabolism in heart failure (rats)
** R01HL-14781-08 Lipid deposition in mammalian cells (mice)
R01HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
R01HL-16553-05 Diagnosis of myocardial infarction by radioisotopes (mice, rats, goats)
R01HL-17371-05 Regulation of cholesteryl ester levels in the aorta (swine)
** R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
P01HL-17871-04 0010 Kidney, sodium, cardiac output, arterioles and hypertension - Renal prostaglandins metabolism in hypertension (rats, dogs)
R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)
R01HL-18746-02 Chemical studies on proteolipid apoproteins (cattle)
R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
** R01HL-21513-02 Metabolism of trans fatty acids (human, rats, swine)
R23HL-21842-01 Control of sugar entry in normal and diabetic heart (rats)
R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease
P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
R01HL-22813-01 Palmitylcarnitine inhibition of ion pumps in ischemia (dogs)

FATTY ACIDS, ACETATES
SEE ALSO DICARBOXYLIC ACIDS, OXALACETATE
SEE ALSO FATTY ACIDS, ACETOACETATES
SEE ALSO FATTY ACIDS, GLYCOLATES
R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)
R01HL-17403-03 Metabolic control of cardiac output (dogs)
R01HL-18554-03 Taurine metabolism in mammalian heart (rodents, cattle, swine)
R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)

FATTY ACIDS, ACETOACETATES
R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)

FATTY ACIDS, ARACHIDONIC ACID
R01HL-02262-23 Mechanisms regulating plasma proteins and solutes (human, dogs)
P01HL-06835-17 0016 Cardiovascular disease Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
P01HL-13262-07 0022 Arterial wall in atherosclerosis Mechanisms of platelet prostaglandin formation
R01HL-13715-08 Myocardial adenyl cyclase (rats)
P50HL-14147-08 0001 Specialized center of research in thrombosis Role of aspirin, other anti platelet agents in platelet function (rat, human)
P50HL-14147-08 0012 Specialized center of research in thrombosis - Tissue culture study of arterial cells (human, hamster)
P50HL-14214-07 0026 Newborn lung center for hyaline membrane disease - Hemodynamic studies of HMD - Prostaglandins production and blockers (lambs)
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
R01HL-14890-07 Platelet prostaglandins (human, rabbits)
R01HL-15215-06 Role of complement in intravascular coagulation (rabbits, mice)
R01HL-16489-04 Renal prostaglandins--Synthesis and function (human, dogs, rats)
R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
P50HL-17682-04 0021 Study of ischemic heart disease - Prostaglandin biosynthesis in blood vessels from ischemic myocardium (rat, sheep)
R01HL-18586-03 Role of platelet lipids in hemostasis and thrombosis (human)
R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
R01HL-19806-03 Chemotactic control of airway phagocytes (human, rabbits)
R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R01HL-21239-02 Isolation and mechanism of action of thromboxane A2 (human, rabbits)
R23HL-21490-02 Studies of enzymes in human platelet membranes
** R01HL-21874-01 SRS-A--Its biosynthesis and action
** R23HL-22075-01 Metabolism of arachidonic acid in blood vessels (chickens, mammals)
** R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
R01HL-22563-02 Prostaglandins, the kidney and hypertension (rats)
R01HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)
R01HL-22951-01 Studies on the affect of vitamin E on platelets (human, rats)

FATTY ACIDS, BUTYRIC ACID
SEE ALSO FATTY ACIDS, BETA-HYDROXYBUTYRIC ACID
R01HL-19324-02 Mechanisms of the inhibition of sickling by OBA (human)

FATTY ACIDS, FREE FATTY ACIDS
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
P50HL-17667-04 0040 Study of ischemic heart disease - Core biochemistry--Cardiac metabolism (human)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
** R01HL-18887-03 Hypolipidemic drugs--Effects on FFA-albumin association (human, cattle)
R01HL-20313-02 Surface-induced thrombosis--Modification of albumin variants (human, goat)
R01HL-20401-03 Relationship of insulin to catechol cardiomyopathy (rabbit, pig)
R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)
** R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
P01HL-22633-01 0001 Cellular and molecular biology of lipoprotein metabolism - Secretion of lipoproteins by the perfused liver (rats, rabbits)
R01HL-22812-01 Regulation of hepatic production of HDL (rats)
R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)
R01HL-23166-01 Pathology of mitochondria in ischemic myocardium (rats, cattle)

(contd)

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R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

FATTY ACIDS, GLYCOLATES
R01HL-16647-05 Studies on the control of sickle cell crisis (human)
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)

FATTY ACIDS, BETA-HYDROXYBUTYRIC ACID
SEE ALSO OXIOOREOUCTASES, BETA-HYDROXYBUTYRATE OEHYOROGENASE
R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)

FATTY ACIDS, 10-HYDROXYDECANOIC ACID
R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)

FATTY ACIDS, HYDROXY FATTY ACIDS
SEE ALSO OICARBOXYLIC ACIOS, MALIC ACIO
SEE ALSO FATTY ACIOS, GLYCOLATES
SEE ALSO FATTY ACIOS, BETA-HYOROXYBUTYRIC ACID
SEE ALSO FATTY ACIDS, 10-HYOROXYOECANOIC ACIO
SEE ALSO FATTY ACIOS, LACTATES
SEE ALSO FATTY ACIDS, MEVALONIC ACID
SEE ALSO TRICARBOXYLIC ACIDS, CITRATES
** R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)

FATTY ACIDS, LACTATES
SEE ALSO OXIOOREOUCTASES, LACTATE OEHYDROGENASE
SEE ALSO OXIOOREOUCTASES, O-LACTATE OEHYOROGENASE
** R01HL-00082-30 Transmembrane movements (barnacles, frogs, rats)
P01HL-08899-14 0012 Tolerance to respiratory gases in health and disease - High oxygen for normal brain metabolism and circulation in man
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
P01HL-15194-07 0020 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation in arteriographically normal arteries (human)
R01HL-15983-04 Regional myocardial blood flow (dogs)
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)
P50HL-17667-04 0040 Study of ischemic heart disease - Core biochemistry--Cardiac metabolism (human)
R01HL-17808-03 Effect of altered oxygen affinity on oxygen transport (human, rats)
R01HL-18206-04 Regulation of metabolism in oxygen deficient hearts (rats)
P01HL-19737-02 0005 Cellular and molecular aspects of respiratory physiology - Interaction of respiratory exchanges and blood gas parameters (human, animals)
R01HL-20116-01 Heart lactate dehydrogenase--The complex with NAOH (pig)
** R01HL-20566-02 Lactate metabolism in the lung (rats)
R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
R01HL-22281-01 Microprobe analysis and metabolite levels of ischemic mycardium (dogs)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
R01HL-23166-01 Pathology of mitochondria in ischemic myocardium (rats, cattle)
R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)
R01HL-23240-01 Pulmonary vascular muscle metabolism and contractility (rats, cattle)
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)

FATTY ACIDS, LEVULINIC ACID
R01HL-19517-03 Synthesis of inhibitors for the study of renal renin (dogs, monkeys)

FATTY ACIDS, LINOLEIC ACID
R01HL-18239-03 Oietary fat composition and prostaglandin synthesis (rats)
R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)
R01HL-22847-01 Test for adherence to diets rich in linoleic acid

FATTY ACIDS, LINOLENIC ACID
** P01HL-06835-17 0014 Cardiovascular disease - Oietary induction of severe atherosclerosis and its prevention (dogs)
P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)

FATTY ACIDS, MEVALONIC ACID
R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)
R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)

FATTY ACIDS, OLEIC ACID
** P01HL-06835-17 0019 Cardiovascular disease - Fatty acid distribution (rats)
P01HL-08214-15 0030 Chemical and biological properties of lipids - Fatty acid biosynthesis in plant cell cultures and in plants

FATTY ACIDS, PALMITIC ACID
R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
R01HL-13921-07 The lung as a metabolic organ (animals)
R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)
** R01HL-22813-01 Palmitylcarnitine inhibition of ion pumps in ischemia (dogs)
** R01HL-23161-01 0002 Biology of myocardial ischemia - Palmitylcarnitine inhibition of ion pumps in myocardial ischemia (dog, sheep)

FATTY ACIDS, PROPIONIC ACID
SEE ALSO FATTY ACIDS, LACTATES
P01HL-08214-15 0041 Chemical and biological properties of lipids - Physico-chemical regulation of enzymes in lipid metabolism

FATTY ACIDS, PYRUVATES
SEE ALSO OXIOOREOUCTASES, PYRUVATE OEHYOROGENASE
SEE ALSO OXIOOREOUCTASES, PYRUVATE OXIOASE
P01HL-08899-14 0012 Tolerance to respiratory gases in health and disease - High oxygen for normal brain metabolism and circulation in man
R01HL-15983-04 Regional myocardial blood flow (dogs)
R01HL-18984-01 P50 effect on exercise limit in stable angina (human)
R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)

FATTY ACIDS, SATURATED FATTY ACIDS
SEE ALSO LIPIOS, FATS, SATURATEO FATS
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
P01HL-13262-07 0015 Arterial wall in atherosclerosis - Crosslinkage biosynthesis in aortic elastin and collagen (animals)
R01HL-14890-07 Platelet prostaglandins (human, rabbits)
P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
R01HL-18636-02 Fatty acids and cholesterol transport (rats)
R01HL-23598-01 Oietary fat, cholesterol and bile acid turnover (rats)

FATTY ACIDS, STEARIC ACID
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)
R01HL-21513-02 Metabolism of trans fatty acids (human, rats, swine)

FATTY ACIDS, TETRACOSANOIC ACID
R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)

FATTY ACIDS, UNSATURATED FATTY ACIDS
SEE ALSO CARBOXYLIC ACIOS, ENOLATES
SEE ALSO FATTY ACIOS, ARACHIOONIC ACIO
SEE ALSO FATTY ACIOS, LINOLEIC ACIO
SEE ALSO FATTY ACIOS, LINOLENIC ACIO
SEE ALSO FATTY ACIOS, OLEIC ACIO
SEE ALSO LIPIOS, FATS, UNSATURATEO FATS
R01HL-01979-22 Arteriosclerosis in zoo animals on controlled diets (animals)
R01HL-03299-21 Oietary effects on cholesterol metabolism (rats, rabbits)
** P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)
P01HL-08214-15 0048 Chemical and biological properties of lipids - Lipids in microorganisms and plants
R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
P01HL-13262-07 0015 Arterial wall in atherosclerosis - Crosslinkage biosynthesis in aortic elastin and collagen (animals)
R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)
R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
** R01HL-17564-03 Unsaturated fats--Mode of hypocholesterolemic action (minipig)
R01HL-18239-03 Oietary fat composition and prostaglandin synthesis (rats)
R01HL-18636-02 Fatty acids and cholesterol transport (rats)
** R01HL-19936-02 Unsaturated fatty acid biosynthesis in the aorta (rats)
R01HL-21513-02 Metabolism of trans fatty acids (human, rats, swine)
R23HL-22075-01 Metabolism of arachidonic acid in blood vessels (chickens, mammals)
R01HL-23598-01 Oietary fat, cholesterol and bile acid turnover (rats)

FATTY ACIDS, UNSATURATED FATTY ACIDS, PROSTAGLANDINS
SEE ALSO FATTY ACIOS METABOLISM, PROSTAGLANOINS METABOLISM
SEE ALSO OXIOOREOUCTASES, PROSTAGLANOIN SYNTHASE
R01HL-02262-23 Mechanisms regulating plasma proteins and solutes (human, dogs)
R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
** R01HL-05883-18 0007 Reflex control of resistance and capacitance vessels - Prostaglandins and skeletal muscle blood flow (dogs)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
** P01HL-06312-17 0046 Surgical cardiology - The relationship of prostaglandins to heart disease
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
P01HL-06314-17 0053 Immunologic mechanisms in cardiovascular disease - Cellular functions controlled by cyclic GMP (human, mice, guinea pigs)
P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Oiabetic vascular disease (human, rats, mice)
P01HL-06664-17 0043 Cardiopulmonary function in remediable vascular disease - Alveolar hypoxic vasoconstriction--Control and clinical significance (dog, human)
** P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
P01HL-06835-17 0031 Cardiovascular disease - Synthesis of potent antagonist of pressor action of angiotensin II (animals)
** P01HL-06835-17 0063 Cardiovascular disease - Studies on prostaglandins (human, rabbits)
R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
P01HL-08805-15 0047 Regulation of ventilation and pulmonary circulation - Extracranial metabolic control of ventilation (dogs, goats)
R01HL-10182-13 Circulatory function and electrolytic metabolism (dogs, human)
P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
P01HL-10342-13 0027 The integrated function of respiration and circulation - Control of respiration--Cardiovascular adjustment to hypoxia and carbon monoxide
P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
R01HL-10942-09 Study of genetic hypertension in rats
** P01HL-11414-11 0004 Thrombosis and atherosclerosis program - Platelet function and nonthrombogenic surfaces (human)
R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)
P01HL-11678-11 0059 Cardiovascular dynamics and their control - Basic hemodynamics (dogs, rats)
R01HL-11880-10 Physiology and pathologyof blood platelets (human, dogs)
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
P01HL-12738-10 0111 Physiologic pharmacology and its clinical applications - Cardiovascular pharmacology (dogs)
R01HL-12775-08 Cerebral microcirculation (mice)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-13193-09 Pathophysiology of post-traumatic and shock states (rodents, dogs)
P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL 13262-07 0022 Arterial wall in atherosclerosis Mechanisms of platelet prostaglandin formation
P01HL 13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
** R01HL 13595-08 Renin and vascular hyperreactivity in hypertension (human, rats)
R01HL 13715-08 Myocardial adenyl cyclase (rats)
P01HL 13737-07 0031 Assisted circulation Myocardial ischemia Biochemical changes (dogs)
R01HL 13936-06 Microvascular responses in hypertension (human, rats)
P50HL 14141-05 0003 SCOR for atherosclerosis in childhood Detection of abnormalities in lipid metabolism (human, rabbits, rats)
P50HL-14147-08 0001 Specialized center of research in thrombosis Role of aspirin, other anti-platelet agents in platelet function (rat, human)
** P50HL 14153-07 0012 Johns Hopkins Lung Center--Chronic diseases of airways - Aspirin intolerance in reversible lung disease (human)
P50HL 14153-07 0013 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary mechanics and mediators of allergic reactions (guinea pigs, human)
P50HL-14153-07 0014 Johns Hopkins Lung Center--Chronic diseases of airways - Mediator release in asthma (human)
P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
** P50HL-14187-07 0012 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses Vasoactive mediators in pulmonary disease (human, animal)
** P50HL-14192-08 0003 Specialized center of research in hypertension - Prostaglandins as mediators of renin secretion (human, dog)
** P50HL-14214-07 0026 Newborn lung center for hyaline membrane disease - Hemodynamic studies of HMD--Prostaglandins production and blockers (lambs)
P50HL-14214-07 0031 Newborn lung center for hyaline membrane disease - Essential fatty acid deficiency and HMD (human)
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
P50HL-14230-07 0097 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)
P01HL-14388-07 0157 Regulation of the circulation in pathological states - Autoregulation of renal blood flow and distribution in sodium excretion control
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
** P01HL-14388-07 0225 Regulation of the circulation in pathological states - Release of renal prostaglandins by saluretic-diuretic agents (dogs)
P01HL-14388-07 0230 Regulation of the circulation in pathological states - Effects of indomethacin in patients with carcinoid syndrome
** P01HL-14388-07 0231 Regulation of the circulation in pathological states - Mechansim of cutaneous vasodilatation in Paget's disease of bone
P01HL-14388-07 9002 Regulation of the circulation in pathological states - Core immunoassay laboratory (rabbits)
** R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
P01HL-14414-07 0015 Environmental influences on cardiorespiratory and cellular functions - Control of the cardiovascular system (dogs)
R01HL-14456-07 Lung metabolism--Enzymes in the pulmonary circulation (human, animals)
** P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
P01HL-14985-07 0015 Adaptation to hypoxia - Pregnancy at high altitude (human, animals)
R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
R01HL-15215-06 Role of complement in intravascular coagulation (rabbits, mice)
** R01HL-15378-06 Ultrastructure of antihypertensive prostaglandins
** R01HL-15447-06 Vascular role of prostaglandin and cyclic nucleotides (rats)
R01HL-15562-05 Regulation of skeletal muscle blood flow (dogs)
** R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
** R01HL-15677-06 Autonomic nervous system function in bronchial asthma (human, guinea pig, rabbit)
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
R01HL 15839-05 Physiological role of isorenin and kallikrein (animals)
P01HL 16387-04 0005 The blood vessel and thrombogenesis Fluid engineering considerations in thrombogenesis
R01HL 16454-03 Vascular muscle reactivity in hypertension (human, rats)
** R01HL 16489-04 Renal prostaglandins Synthesis and function (human, dogs, rats)
** R01HL 16496-04 Prostaglandins and renin experimental hypertension (rabbits)
R01HL 16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
R01HL 16714-05 Endothelial cell communication in homeostasis (human, mammals)
R01HL 16760-05 Dynamic control of coronary blood flow (dogs)
** R01HL 17341-03 Practical total synthesis of prostaglandins
R01HL 17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
P01HL-17382-05 0003 Chemical mediators at acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
R01HL 17401-03 Mechanisms in angiotensin induced hypertension (cats, dogs)
R01HL-17458-04 Renal control of sodium excretion (rats)
R01HL-17487-04 Adrenergic vasoregulation interactions in hypertension (human)
R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
P50HL-17646-04 0016 Study of ischemic heart disease - Humoral factors in ischemic heart rhythm, mechanical performance (dog, rabbit)
P50HL-17651-04 0045 Ischemic heart disease specialized center of research - Peripheral vascular studies--Pharmacology (dogs, human)
R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
R01HL-17729-04 Stimulus-response coupling in platelets (human)
R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
M P01HL-17871-04 Kidney, sodium, cardiac output, arterioles and hypertension
** P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
** P01HL-17871-04 0010 Kidney, sodium, cardiac output, arterioles and hypertension - Renal prostaglandins metabolism in hypertension (rats, dogs)
** R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL 18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)
** R01HL-18239-03 Dietary fat composition and prostaglandin synthesis (rats)
** R01HL-18259-03 Controlled intratissue release of prostaglandins
P50HL 18318-03 0003 Pathogenesis and complications of hypertension - Core biochemical laboratory
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
P01HL-18575-03 0011 Mechanisms of vascular changes in hypertension - Chemistry laboratory core facility
P01HL-18576-03 0001 Thrombosis research program project - Platelet damage from physical forces and artificial surfaces (human)
** R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
R01HL-18586-03 Role of platelet lipids in hemostasis and thrombosis (human)
R01HL-18725-03 Light-scattering studies of the sickling process (human)
P01HL-18827-02 0003 Platelet vessel wall interactions in thrombogenesis - Tumor cell and platelets in thrombogenesis and metastasis (human, animals)
P01HL-18827-02 0005 Platelet vessel wall interactions in thrombogenesis - Platelet vessel wall interactions in thrombogenesis (human)
P50HL-18828-03 0008 Specialized center of research in thrombosis - Biochemistry, physiology--Platelets and subcellular platelet particles (human)
** R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
** R01HL-18875-03 Angiotension, prostaglandins, pressure and the kidney (rats)
** R01HL-18979-02 Mechanisms in local regulation of coronary flow (rabbits)
R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
** R01HL-19134-04 Angiotensin, prostaglandins, adrenergic interactions (rats, rabbits)
** P50HL-19153-02 0001 SCOR--Pulmonary edemas--Etiology, pathogenesis - Prostaglandins and the lung circulation (sheep)
P50HL 19156-02 0005 Pulmonary SCOR Chronic diseases of airways Vagal receptors in the airway epithelial injury and antigen (dog, cat, rabbit)
P50HL 19185-07 0003 Pulmonary SCOR Neonatal respiratory distress syndromes Factors affecting formation and release of pulmonary surfactant in fetal lambs
** R01HL 19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
** R01HL 19218-03 Local regulation of coronary flow by prostaglandins (rabbits)
** R01HL 19229-02 Prostaglandins and hypertension (human, rats, dogs, rabbits)
P01HL 19242-02 0003 Study of vascular smooth muscle Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
P01HL-19242-02 0004 Study of vascular smooth muscle Cyclic nucleotide metabolism in smooth muscle cultures (human, rats)
P01HL 19242-02 0007 Study of vascular smooth muscle NE release in and reactivity of vascular smooth muscle (animals)
R01HL 19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
R01HL 19455-03 Role of endothelial cells in vascular permeability (tissue culture)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
** P01HL-19717-02 0007 Response of the lung to injury Cellular level studies of prostaglandin-like molecules (cattle)
** P01HL-19717-02 0013 Response of the lung to injury Handling of biologically active substances by the diseased lung (guinea pigs)
** P01HL-19717-02 0037 Response of the lung to injury - Catecholamines, prostaglandins and nucleotides in pulmonary function (animals)
P01HL-19737-02 0002 Cellular and molecular aspects of respiratory physiology - Airway smooth muscle in health and disease (human, animals)
P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
R01HL-19836-03 Kinin inhibitors detected by use of receptors (cattle)
R01HL-19870-03 Hypertensive progeny--Physical and humoral precursor search
** R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
R01HL-20054-02 Cultured blood vessel cells-Pathophysiology (human, animals)
R01HL-20079-02 0002 Thromboresistant material Thromboresistant materials (sheep)
R01HL-20251-02 A novel approach to nonthrombogenic polymer surfaces (sheep, cattle)
R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
R01HL-20719-02 Cold induced pulmonary hypertension (cattle)
** R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R01HL-20895-03 0007 Cineangiographic studies of cardiovascular system - Determinants of collateral formation (dogs, hamsters)
R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
R01HL-21076-02 Lung fluid, protein exchange after hemorrhagic shock (sheep)
R23HL-21089-02 Localization of mediators in dispersed lung cells (guinea pigs, human)
R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
** R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
R23HL-21291-02 Renin-mineralocorticoid axis in hypertensive diabetics (human)
** R01HL-21308-01 Prostaglandins and local control of the circulation (rats, dogs)
R23HL-21409-02 Perinatal control of the ductus arteriosus (sheep)
R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
R01HL-21523-01 Hemodynamic effects of dietary sodium in man
** R01HL-21568-02 Cell biology of the alveolar-capillary unit (animals)
** R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)
** R01HL-22026-01 Endogenous prostaglandins in asthma
** R01HL-22069-02 Experimental renal arterial hypertension (dogs)
R23HL-22075-01 Metabolism of arachidonic acid in blood vessels (chickens, mammals)
P01HL-22163-01 0003 Surface thrombogenesis--Mechanisms and prevention - In vivo mechanisms of biomaterial thrombogenesis and its prevention (baboons)
R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
R01HL-22177-02 Mechanisms of control of pulmonary smooth muscle (dogs)

(contd)

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R01HL-22216-02 Vascular mechanisms in renal hypertension (dogs)
R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease
R01HL-22244-01 Cardiopulmonary bypass and the vascular endothelium (dogs)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)
R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)
R01HL-22482-01 Circulatory hemodynamics and sodium excretion (dogs)
R01HL-22520-01 Pulmonary vascular response to group B Streptococci (human, mammals)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
R01HL-22563-02 Prostaglandins, the kidney and hypertension (rats)
P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
P01HL-22602-01 0003 Pathophysiology of the endothelium - Mechanisms of endothelial proliferation (human, animals)
R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)
R23HL-22882-01 Modulation by disease of effect of furosemide in man
R01HL-22951-01 Studies on the affect of vitamin E on platelets (human, rats)
** R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)
R01HL-23982-01 Control of coronary flow by carbon dioxide tension (dogs)
** N01HV-72943-01 Prostaglandin and kallikrein kinin system antagonists
** N01HV-72944-02 Prostaglandin and kallikrein kinin antagonists

FATTY ACIDS, UNSATURATED FATTY ACIDS, PROSTAGLANDINS ANALOGS

** R01HL-15378-06 Ultrastructure of antihypertensive prostaglandins

FATTY ACIDS, UNSATURATED FATTY ACIDS, THROMBOXANES

SEE ALSO FATTY ACIDS METABOLISM, PROSTAGLANDINS METABOLISM

R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
** P01HL-06835-17 0063 Cardiovascular disease - Studies on prostaglandins (human, rabbits)
R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
R01HL-11897-11 Pathogenesis of experimental atherosclerosis (rabbits, guinea pigs)
P50HL-14147-08 0001 Specialized center of research in thrombosis - Role of aspirin, other anti-platelet agents in platelet function (rat, human)
** R01HL-15378-06 Ultrastructure of antihypertensive prostaglandins
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
** R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18239-03 Dietary fat composition and prostaglandin synthesis (rats)
R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R01HL-20818-02 Platelet storage at 22 degrees C (human)
R01HL-21523-01 Hemodynamic effects of dietary sodium in man
R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)
R01HL-22026-01 Endogenous prostaglandins in asthma
R23HL-22075-01 Metabolism of arachidonic acid in blood vessels (chickens, mammals)
R01HL-22087-02 Humoral mediators of pulmonary inflammation (guinea pigs)
** R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
** R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
** R01HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)

FATTY ACIDS BIOSYNTHESIS

** R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
P01HL-08214-15 0006 Chemical and biological properties of lipids - Analysis and properties of lipids
** P01HL-08214-15 0030 Chemical and biological properties of lipids - Fatty acid biosynthesis in plant cell cultures and in plants
R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-11897-11 Pathogenesis of experimental atherosclerosis (rabbits, guinea pigs)
R01HL-13715-08 Myocardial adenyl cyclase (rats)
P50HL-14164-07 0035 A/S SCOR--Comparative and experimental atherosclerosis - Lipid metabolism--Interaction with arterial metabolism (monkey, pigeon)
P50HL-14214-07 0015 Newborn lung center for hyaline membrane disease - Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal)
R01HL-14595-07 Primary disorders of platelet function (human, rats)
** R01HL-14890-07 Platelet prostaglandins (human, rabbits)
R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
** R01HL-16489-04 Renal prostaglandins--Synthesis and function (human, dogs, rats)
** R01HL-16524-02 Selective inhibitors of prostaglandin biosynthesis (dogs)
R01HL-16628-05 Regulation of lipid metabolism (rats)
R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
** P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
P50HL-17646-04 0016 Study of ischemic heart disease - Humoral factors in ischemic heart rhythm, mechanical performance (dog, rabbit)
** P50HL-17682-04 0021 Study of ischemic heart disease - Prostaglandin biosynthesis in blood vessels from ischemic myocardium (rat, sheep)
** R01HL-17921-04 Peroxy radicals to prostaglandins in vessels and lung
R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
R01HL-18878-03 Familial hypercholesteremia--Studies of fibroblasts (human)
** R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
R01HL-19066-03 Synthesis and evaluation of prostaglandin metabolites (guinea pigs)
R01HL-19218-03 Local regulation of coronary flow by prostaglandins (rabbits)
P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
** R01HL-19936-02 Unsaturated fatty acid biosynthesis in the aorta (rats)
** R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
** R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
** R01HL-20794-02 Prostaglandin synthesis in human platelets (also in sheep, rabbit)
** R23HL-21066-02 Angiotensin and prostaglandin control of aldosterone (rats)
R23HL-21251-01 Metabolism of neutral lipids in the pulmonary alveolus (rabbits)
R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
R23HL-22075-01 Metabolism of arachidonic acid in blood vessels (chickens, mammals)
** R01HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)
R01HL-23159-01 Regulation of lipogenesis by polyunsaturated fats (rats, chicks)
** R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)
** N01HV-72945-03 Develop prostaglandin synthesis and receptor antagonists

FATTY ACIDS METABOLISM

SEE ALSO FATTY ACIDS BIOSYNTHESIS
SEE ALSO FATTY ACIDS TRANSPORT (GENERAL)

R01HL-03734-18 Metabolism of arterial tissue in atherosclerosis (rabbits)
** P01HL-06308-18 0040 Mechanisms and therapy of circulatory disease - Metabolism and fatty acid utilization--Heart electrical stability (rats, dogs)
** P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)
P01HL-08214-15 0030 Chemical and biological properties of lipids - Fatty acid biosynthesis in plant cell cultures and in plants
P01HL-08214-15 0048 Chemical and biological properties of lipids - Lipids in microorganisms and plants
** R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
** P01HL-11310-12 0080 Mechanisms of cardiovascular disease - Metabolism of the hypertrophied myocardium (human)
** P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
** R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
** R01HL-13028-09 Regulation of myocardial fatty acid metabolism (rats)
** R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
P50HL-14230-07 0093 A/S SCOR--Lipids, atherosclerosis and thrombosis - Clinical studies involving cellular lipid content (human)
R01HL-14706-07 Fetal hearts in organ culture (mice)
** R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)
** R01HL-15376-06 Intermediary metabolism of sterols (mice)
** R01HL-15813-05 Cardiac anoxia--Protective effect of carbohydrate (dogs)
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
** P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
P60HL-17269-04 0018 National heart and blood vessel research and demonstration center - Mitochondria and energetics (rabbits, dogs)
P50HL-17646-04 0009 Study of ischemic heart disease - Regional metabolic derangements indicating ischemia (rabbit, dog, human)
P50HL-17667-04 0012 Study of ischemic heart disease - Biochemistry of normal and ischemic heart--Glycolysis (rats)
P50HL-17667-04 0040 Study of ischemic heart disease - Core biochemistry--Cardiac metabolism (human)
** R01HL-17895-04 Myocardial function and metabolism following ischemia (rats)
** R01HL-18089-04 Fatty acid metabolism in heart and its regulation (swine, rats)
R01HL-18176-02 Effect of thyroid hormone on cardiac cells (rats)
** R01HL-18206-04 Regulation of metabolism in oxygen deficient hearts (rats)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
** P01HL-19737-02 0001 Cellular and molecular aspects of respiratory physiology - Fatty acid metabolism in type II alveolar cells (rats)
R01HL-20313-02 Surface-induced thrombosis--Modification of albumin variants (human, goat)
R01HL-20388-03 Regulation of protein turnover in diabetic heart (rat)
R01HL-20401-03 Relationship of insulin to catechol cardiomyopathy (rabbit, pig)
** R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)
R01HL-20484-03 Effects of diabetes on cardiac function and metabolism (rats)
R01HL-20909-02 Clofibrate-enhanced lipid oxidation by peroxisomes (rats)
** R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)
R23HL-21251-01 Metabolism of neutral lipids in the pulmonary alveolus (rabbits)
R01HL-21697-01 Myocardium infarct sizing by 82Rb emission tomography (dogs, human)
** R23HL-22075-01 Metabolism of arachidonic acid in blood vessels (chickens, mammals)
R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)
R01HL-23161-01 0001 Biology of myocardial ischemia - Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)

FATTY ACIDS METABOLISM, PROSTAGLANDINS METABOLISM

R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
** R01HL-11897-11 Pathogenesis of experimental atherosclerosis (rabbits, guinea pigs)
R01HL-13715-08 Myocardial adenyl cyclase (rats)
P50HL-14147-08 0001 Specialized center of research in thrombosis - Role of aspirin, other anti-platelet agents in platelet function (rat, human)
P50HL-14147-08 0012 Specialized center of research in thrombosis - Tissue culture study of arterial cells (human, hamster)
P50HL-14153-07 0012 Johns Hopkins Lung Center--Chronic diseases of airways - Aspirin intolerance in reversible lung disease (human)
P50HL-14187-07 0012 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
R01HL-14595-07 Primary disorders of platelet function (human, rats)
** R01HL-14890-07 Platelet prostaglandins (human, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

RD1HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
** RD1HL-16489-04 Renal prostaglendins-Synthesis and function (human, dogs, rats)
** RD1HL-16524-02 Selective inhibitors of prostaglandin biosynthesis (dogs)
P50HL-17646-04 D016 Study of ischemic heart disease Humoral factors in ischemic heart rhythm, mechanical performance (dog, rabbit)
** P50HL-17682-04 0021 Study of ischemic heart disease Prostaglandin biosynthesis in blood vessels from ischemic myocardium (rat, sheep)
** RD1HL-17921-04 Peroxy radicals to prostaglandins in vessels and lung
** RD1HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
** R01HL-19066-D3 Synthesis and evaluation of prostaglandin metabolites (guinea pigs)
R01HL-19218-03 Local regulation of coronary flow by prostaglandins (rabbits)
** R01HL-19997-D2 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
** R01HL-20783-D2 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
** R01HL-20794-02 Prostaglandin synthesis in human platelets (also in sheep, rabbit)
** R23HL-21066-02 Angiotensin and prostaglandin control of aldosterone (rats)
R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
** RD1HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
** R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
R01HL-22784-01 Ductus arteriosus closure--An arterial lesion model (rabbits)
** RD1HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)
** R01HL-23114-01 Control of platelet aggregation in shock (dogs, rabbits)
** R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)
** N01HV-72945-03 Develop prostaglandin synthesis and receptor antagonists

FATTY ACIDS TRANSPORT (GENERAL)
R01HL-02751-21 Function and metabolism of serum albumin (mammals, fish, amphibians)
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
** R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)
P01HL-18577-03 0D03 Lipoproteins--Cell surface interactions - Mechanism of lipid exchange in lipoproteins and cell membranes
RD1HL-18636-02 Fatty acids and cholesterol transport (rats)
RD1HL-2D3D8-D2 Regulation of myocardial acylcarnitine transport (rats)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
R01HL-23159-D1 Regulation of lipogenesis by polyunsaturated fats (rats, chicks)
RD1HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)

FATTY LIVER
SEE LIVER DISORDERS, FATTY LIVER

FATTY TISSUE
SEE CONNECTIVE TISSUE, ADIPOSE

FECES
SEE GASTROINTESTINAL EXCRETA, FECES

FECES ANALYSIS
SEE CHEMISTRY, CLINICAL, FECES ANALYSIS*

FEEDBACK, SENSORY
SEE SENSORY FEEDBACK

FEEDBACK CONTROL (BIOLOGICAL)
SEE INFORMATION PROCESSING AND CONTROL (BIOLOGICAL)

FEEDBACK CONTROL (NEURAL)
SEE INFORMATION PROCESSING AND CONTROL (NEURAL)

FEEDING (EATING) BEHAVIOR
SEE NUTRIENT INTAKE ACTIVITY, FEEDING (EATING) BEHAVIOR

FEEDING METHODS (SCHEDULE AND ROUTE)
SEE NUTRITION, DIET SCHEDULE AND ROUTE

FEELINGS
SEE PSYCHOLOGY, EMOTIONS

FELOSAN
SEE PYRIDINAMIDES, NICOTINAMIDE, N-METHYL-

FEMALE
SEE SEX, FEMALE

FEMORAL ARTERY
SEE CARDIOVASCULAR SYSTEM, ARTERIES, FEMORAL ARTERY

FEMORAL HEAD
SEE SKELETAL SYSTEM, HIP, FEMORAL HEAD

FENTANYL
SEE PIPERIDINES, FENTANYL

FERNS
SEE PLANTS, FERNS*

FEROXAMINE
SEE IRON, FEROXAMINE DEFEROXAMINE

FERREDOXIN
SEE METALLOPROTEINS, FERREDOXIN

FERRICYANIDE REDUCTASE
SEE OXIDOREDUCTASES, D-LACTATE DEHYDROGENASE

FERRIHEME
SEE HEME, FERRIHEME

FERRIHEMOCHROMES
SEE HEMOCHROMES, FERRIHEMOCHROMES

FERRIHEMOPROTEIN P450 REDUCTASE
SEE OXIDOREDUCTASES, NADPH2 CYTOCHROME C REDUCTASE

FERRITIN
SEE METALLOPROTEINS, FERRITIN

FERROXIDASE
SEE METALLOPROTEINS, CERULOPLASMIN

FERTILITY
SEE ALSO FAMILY PLANNING
P5DHL-14141-D5 0DD7 SCOR for atherosclerosis in childhood - Relation of lipid valves to sexual maturation at puberty (human)

FERTILITY, ANTIFERTILITY DRUGS
R01HL-018D3-23 DD11 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
R01HL-12557-09 Effects of steroids and pregnancy on arteries and veins (guinea pigs)
R01HL-13595-D8 Renin and vascular hyper-reactivity in hypertension (human, rats)
** R01HL-14526-07 Oral contraceptives and hypertension (rats)
R01HL-14944-D7 Renal vascular reactivity in hypertensive patient
P6DHL-15158-07 0011 Comprehensive sickle cell center - Clinical services--Adult patients
R01HL-158D8-D6 Role of angiotensinogen in hypertension and stroke (human, rabbits)
PD1HL-16387-04 0002 The blood vessel and thrombogenesis - Hormonal effects on thrombogenesis (rats, rabbits)
** RD1HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
R01HL-17721-04 Effect of sex hormones on vascular connective tissue (rats)
** RD1HL-17724-03 Oral contraceptives and hypertension (rats)
RD1HL-18333-05 Thrombogenesis and hemostatic balance (rabbits, human)
P01HL-18574-03 Lipoprotein methodology and biomedical applications
P01HL-18574-03 DDD1 Lipoprotein methodology and biomedical applications - Ultracentrifugal and electrophoretic lipoprotein methodology--Applications
P01HL-18576-D3 DDD9 Thrombosis research program project - Biology of factor VII (human, rabbits, cattle)
** RD1HL-19144-D3 Contraceptive steroids and experimental hypertension (rats)
R01HL-19255-D3 Evaluation of diagnostic clinical hemorrheology (human)
RD1HL-19858-D3 UMMC--Blood pressure precursors and consequences (human)
R01HL-22225-D1 Hormonal regulation of blood pressure and blood flow (human, animals)
RD1HL-225D6-01 Hemodynamics of the clinical hypertensions

FERTILITY, ANTIFERTILITY DRUGS, MESTRANOL-NORETHYNODREL
** R01HL-14526-07 Oral contraceptives and hypertension (rats)
R01HL-19144-D3 Contraceptive steroids and experimental hypertension (rats)

FERTILITY, SEX CYCLES, MENSTRUATION
P01HL-14388-D7 D232 Regulation of the circulation in pathological states - Idiopathic cyclic edema
P60HL-15996-D6 DDD5 Cincinnati comprehensive sickle cell center - Factors precipitating crises (human)

FERTILITY, SPERM (ALL STAGES)
PD1HL-08214-15 DD25 Chemical and biological properties of lipids - Biosynthesis and biological functions of plasmalogen (cattle)

FERTILIZED EGG (MAMMALIAN) TRANSFER
SEE PREGNANCY, EMBRYO-FETUS TRANSPLANTATION

FETAL CELL LINES
SEE TISSUE (CELL) CULTURE, EMBRYONIC/FETAL CELL LINES

FETAL CHEMOTHERAPY
SEE PREGNANCY, EMBRYO-FETUS CHEMOTHERAPY

FETAL DEATH
SEE PREGNANCY LOSS, FETAL DEATH

FETAL DIAGNOSIS
SEE PREGNANCY, ANTEPARTUM DIAGNOSIS

FETAL DISORDERS
SEE PREGNANCY DISORDERS, EMBRYO-FETAL DISORDERS (GENERAL)

FETAL ENZYMES
SEE ENZYMES, FETAL ENZYMES

FETAL FAILURE TO THRIVE
SEE PREGNANCY DISORDERS, EMBRYO-FETAL GROWTH-DEVELOPMENT DISORDERS (SEE ALSO APPROPRIATE SPECIFICS)

FETAL GROWTH DISORDERS
SEE PREGNANCY DISORDERS, EMBRYO-FETAL GROWTH-DEVELOPMENT DISORDERS (SEE ALSO APPROPRIATE SPECIFICS)

FETAL HEMOGLOBIN
SEE HEMOPROTEINS, HEMOGLOBIN FETAL

FETAL HYPOXIA
SEE RESPIRATORY GAS LEVELS, HYPOXIA FETAL

FETAL NUTRITION
SEE NUTRITION, MATERNAL-FETAL NUTRITION

FETAL STRESS
SEE PREGNANCY, PRENATAL STRESS

FETAL SURGERY
SEE PREGNANCY, EMBRYO-FETUS SURGERY

FETAL TRANSPLANTATION
SEE PREGNANCY, EMBRYO-FETUS TRANSPLANTATION

FETUS
SEE PREGNANCY, EMBRYO-FETUS

FETUS TRANSFER
SEE PREGNANCY, EMBRYO-FETUS TRANSPLANTATION

FEVER
SEE TEMPERATURE (BODY), FEVER

FFA
SEE FATTY ACIDS, FREE FATTY ACIDS

FIBER OPTICS
SEE OPTICS, FIBER OPTICS*

FIBRILLATION ATRIAL
SEE HEART DISORDERS, ARRHYTHMIA, ATRIAL FIBRILLATION

FIBRILLATION VENTRICULAR
SEE HEART DISORDERS, ARRHYTHMIA, VENTRICULAR FIBRILLATION

FIBRIN
SEE BLOOD COAGULATION, FIBRIN

FIBRIN STABILIZING FACTOR
SEE BLOOD COAGULATION, FIBRIN STABILIZING FACTOR

FIBRINASE
SEE BLOOD COAGULATION, FIBRIN STABILIZING FACTOR
SEE BLOOD COAGULATION, PLASMIN

FIBRINOGEN
SEE BLOOD COAGULATION, FIBRINOGEN

FIBRINOGENASE
SEE BLOOD COAGULATION, THROMBIN

FIBRINOLYSIN
SEE BLOOD COAGULATION, PLASMIN

FIBRINOLYTIC AGENTS
SEE BLOOD COAGULATION, FIBRINOLYTIC AGENTS

FIBRINOLYSIN INHIBITORS
SEE BLOOD COAGULATION, ANTIFIBRINOLYTIC AGENTS

FIBRINOLYSIS
SEE BLOOD COAGULATION, FIBRINOLYSIS

FIBRINOLYSOKINASE
SEE BLOOD COAGULATION, LYSOKINASE

FIBROBLASTS
SEE CONNECTIVE TISSUE CELLS, FIBROBLASTS

FIBROELASTOSIS, ENDOCARDIAL
SEE HEART DISORDERS, ENDOCARDIAL FIBROELASTOSIS

FIBROGENESIS
SEE CONNECTIVE TISSUE DEVELOPMENT, FIBROGENESIS

FIBROSING AGENTS
SEE DISEASES, PATHOLOGIC PROCESSES, IRRITATION, FIBROSING AGENTS

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

FIBROSIS
SEE HEART DISORDERS, CORONARY FIBROSIS
SEE HEART DISORDERS, ENDOMYOCARDIAL FIBROSIS
SEE METABOLIC DISORDERS INBORN, CYSTIC FIBROSIS
SEE RESPIRATORY DISORDERS, PULMONARY FIBROSIS AND GRANULOMAS

FIBROUS DIETS
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY RESIDUES-FIBERS

FIBROUS PROTEINS
SEE ALSO ALBUMINOIDS, COLLAGEN
SEE ALSO ALBUMINOIDS, ELASTIN
R01HL-08893-14 Structure and function of membrane proteins (human)
P01HL-11310-12 0101 Mechanisms of cardiovascular disease - Molecular pathogenesis of vascular disease
P60HL-16005-05 0015 Comprehensive sickle cell center - Molecular basis for the sickling phenomenon
R01HL-23233-01 Pulmonary artery intermediate filament structure (cattle)
** N01HR-62910-02 Fibroprotein networks of pulmonary alveolar wall (human)

FICK METHOD
SEE HEART DISORDERS DIAGNOSIS, FICK METHOD*

FILIPIN
SEE ANTIBIOTICS, FILIPIN

FILMS
SEE MOLECULAR FILMS

FILTERS AND FILTRATION
SEE BLOOD TREATMENT, BLOOD FILTERS
SEE PHYSICAL SEPARATION, MOLECULAR SIEVES*

FINANCING ORGANIZED
SEE SOCIOECONOMICS, FINANCING ORGANIZED

FINGERS
SEE SKELETAL SYSTEM, LIMB, FINGERS

FISH*
** R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)
** R01HL-19164-03 Piscine erythrocytic necrosis in the Atlantic cod

FISTULA
SEE CARDIOVASCULAR DISORDERS, ARTERIOVENOUS SHUNTS ABNORMAL

FIXED ACTION PATTERN (ANIMAL BEHAVIOR)
SEE PSYCHOLOGY, BEHAVIOR ANIMAL

FIXED CHARGE HYPOTHESIS
SEE BIOLOGICAL TRANSPORT, PASSIVE TRANSPORT, DIFFUSION

FIXED CHARGES IN TRANSPORT ENERGETICS
SEE BIOLOGICAL TRANSPORT, TRANSPORT ENERGETICS

FIXING OF TISSUES OR CELLS
SEE TISSUE AND CELL PREPARATION

FLAGELLA
SEE CELL COMPONENTS, FLAGELLA

FLAVIN ADENINE DINUCLEOTIDE
SEE FLAVIN NUCLEOTIDES, RIBOFLAVIN NUCLEOTIDES, FAD

FLAVIN NUCLEOSIDES, RIBOFLAVIN
P01HL-16251-06 0003 Membrane-bound enzymes in heart and other tissues - Regulation of cardiac succinate dehydrogenase (yeasts, mammals)

FLAVIN NUCLEOTIDES, RIBOFLAVIN NUCLEOTIDES, FAD
P01HL-07896-15 0032 Environmental biomedical research program - Fluorometry study of brain exposed to hyperbaric oxygen (dogs, cats)
R01HL-13028-09 Regulation of myocardial fatty acid metabolism (rats)
P01HL-16251-06 0010 Membrane-bound enzymes in heart and other tissues - Reversible activation of L-amino acid oxidase (snakes)
R01HL-19279-03 Intracellular action of aldosterone in hypertension (human, rats)

FLAVINS
SEE ALSO FLAVOPROTEIN ENZYMES
** P01HL-16251-06 0001 Membrane-bound enzymes in heart and other tissues - Structure of covalently bound flavins (bacteria, yeast, mammals)
P01HL-16251-06 0002 Membrane-bound enzymes in heart and other tissues - Structural basis of regulation of cardiac succinate dehydrogenase
** P01HL-16251-06 0004 Membrane-bound enzymes in heart and other tissues - Biosynthesis and degradation of succinate dehydrogenase, histidyl (yeast, mammal)
** P01HL-16251-06 0007 Membrane-bound enzymes in heart and other tissues - Flavins and flavoproteins

FLAVODOXIN
R01HL-19481-03 High-field NMR studies of respiratory proteins (human, horse, fish, microbes)

FLAVONOIDS
P01HL-07896-15 0049 Environmental biomedical research program - Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)

FLAVOPROTEIN ENZYMES
R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
P01HL-15835-06 0013 Study of muscles related to heart disease - Cardiac bioenergetics (rats)
** P01HL-16251-06 0007 Membrane-bound enzymes in heart and other tissues - Flavins and flavoproteins
R01HL-18089-04 Fatty acid metabolism in heart and its regulation (swine, rats)

FLOWMETERS, AIRFLOWMETERS (RESPIRATORY)
SEE RESPIRATORY DISORDERS DIAGNOSIS, RESPIRATORY AIRFLOW MEASUREMENTS*

FLOWMETERS, BLOOD
SEE CARDIOVASCULAR DISORDERS DIAGNOSIS, BLOOD FLOW MEASUREMENTS*

FLUDROCORTISONE
SEE ADRENAL CORTEX HORMONES ANALOGS, FLUOROCORTISONE

FLUID DYNAMICS
SEE PHYSICAL PROPERTIES, FLUID DYNAMICS (GENERAL)

FLUID-ELECTROLYTE BALANCE
SEE BODY FLUID BALANCE, IONIC

FLUID EXCHANGE AND TRANSPORT
SEE BIOLOGICAL TRANSPORT, FLUID EXCHANGE AND TRANSPORT

FLUID FLOW
SEE PHYSICAL PROPERTIES, FLUID FLOW

FLUID FLOW IMPEDANCE
SEE PHYSICAL PROPERTIES, FLUID FLOW IMPEDANCE

FLUID STATE
SEE PHYSICAL PROPERTIES, FLUID STATE

FLUIDS
SEE BODY FLUIDS (AND RELATED SUBSTANCES)
SEE CELL FLUIDS
SEE PHYSICAL PROPERTIES, FLUID STATE

FLUORESCEINS
SEE BENZOPYRANS, XANTHENES, FLUORESCEINS

FLUORESCENCE
SEE OPTICS, LIGHT EMISSION, FLUORESCENCE*

FLUORESCENCE LABELING, PROBES
SEE DYES, FLUORESCENT DYES AND PROBES

FLUORESCENCE MICROSCOPY
SEE OPTICS, MICROSCOPY, FLUORESCENCE*

FLUORESCENCE SPECTROMETRY
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, FLUORESCENCE*

FLUORESCENT ANTIBODY TECHNIQUE
SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOFLUORESCENCE*

FLUORESCENT ANTIGEN TECHNIQUE
SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOFLUORESCENCE*

FLUORESCENT DYES
SEE DYES, FLUORESCENT DYES AND PROBES

FLUORIDES
SEE HALOGENS, FLUORINE (COMPOUNDS) SEE ALSO SPECIFICS

FLUORINE (COMPOUNDS)
SEE HALOGENS, FLUORINE (COMPOUNDS) SEE ALSO SPECIFICS

FLUORINE RADIOISOTOPES (18)
SEE RADIOISOTOPES, FLUORINE

FLUOROCARBON ASSIST
SEE RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, FLUOROCARBON

FLUOROCARBON POLYMERS
SEE PLASTICS, FLUOROCARBON POLYMERS

FLUOROCINEMATOGRAPHY
SEE RADIOGRAPHY, CINEFLUOROGRAPHY*

9ALPHA-FLUOROHYDROCORTISONE
SEE ADRENAL CORTEX HORMONES ANALOGS, FLUOROCORTISONE

FLUOROMETRY
SEE OPTICS, FLUOROMETRY*

FLUOROSCOPY
SEE RADIOGRAPHY, FLUOROSCOPY*

FLURAZEPAM
SEE AZEPINES, DIAZEPINES, FLURAZEPAM

FNS (FUNCTIONAL NEUROMUSCULAR STIMULATORS FOR NEUROMOTOR DISORDERS)
SEE NEUROMUSCULAR STIMULATORS (FOR NEUROMOTOR DISORDERS)

FOAMING AGENTS
SEE PHYSICAL PROPERTIES, SURFACTANTS

FOLIC ACID
R01HL-13987-04 Transplantation of the lung (dogs)
P60HL-15158-07 0011 Comprehensive sickle cell center - Clinical services--Adult patients

FOLIC ACID ANTAGONISTS, METHOTREXATE
P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
R01HL-13987-04 Transplantation of the lung (dogs)
R01HL-15526-05 Respiratory mechanics in children

FOLLOW-UP STUDY
SEE POPULATION STUDIES HUMAN, LONGITUDINAL STUDY

FOLLOW-UP STUDY, ANIMAL
SEE POPULATION STUDIES ANIMAL, LONGITUDINAL STUDY

FOOD, ANIMAL FEEDS, SILAGE
P50HL-15389-07 0009 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies--Pulmonary mycotoxicosis
P50HL-15389-07 0013 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Pulmonary mycotoxicosis (rabbit, guinea pig)

FOOD, BEVERAGES, COFFEE
** P50HL-15092-07 0011 Immune and fibrotic response to occupational environments - Respiratory and immunologic responses in coffee plant workers
P50HL-15092-07 0014 Immune and fibrotic response to occupational environments - Clinical immunology core resource
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)

FOOD, MEAT SUBSTITUTES
R01HL-20910-02 The alternative diet for coronary disease prevention (human)

FOOD ADDITIVES
SEE FOOD SCIENCES AND TECHNOLOGY, FOOD ADDITIVES

FOOD ANALYSIS (CHEMICAL CONSTITUENTS)
SEE NUTRITION, DIETARY CONSTITUENTS (GENERAL)

FOOD CONSTITUENTS
SEE NUTRITION, DIETARY CONSTITUENTS (GENERAL)

FOOD REQUIREMENTS DIETARY
SEE NUTRITIONAL REQUIREMENTS

FOOD SCIENCES AND TECHNOLOGY, FOOD ADDITIVES
SEE ALSO OXIDANTS, ANTIOXIDANTS
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)

FORAMEN OVALE (HEART) EMBRYONIC
SEE HEART, FORAMEN OVALE EMBRYONIC

FORAMEN OVALE (HEART) PATENT
SEE CONGENITAL ABNORMALITIES, HEART SEPTAL DEFECTS

FORANE
SEE HALOETHERS, FORANE

FOREBRAIN
SEE BRAIN, PROSENCEPHALON (GENERAL)

FOREIGN BODY (REACTION)
SEE DISEASES, PATHOLOGIC PROCESSES, INFLAMMATION, FOREIGN BODY (REACTION)

FORMALDEHYDE
SEE ALDEHYDES, FORMALDEHYDE

FOURIER TRANSFORM SPECTROSCOPY
SEE OPTICS, INTERFEROMETRY*

FRACTIONATION (GENERAL)
SEE PHYSICAL SEPARATION, FRACTIONATION (GENERAL)*

FRAMESHIFT
SEE GENETICS, MUTATION, GENE MUTATION, FRAMESHIFT

FREE FATTY ACIDS
SEE FATTY ACIDS, FREE FATTY ACIDS

FREE RADICALS
SEE ELECTRONIC SPECTRA, FREE RADICALS

FREEZE-ETCHING
SEE TEMPERATURE, FREEZE-ETCHING*

FREEZING
SEE TEMPERATURE, FREEZING

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

FRESH-WATER ORGANISMS
SEE WATER ENVIRONMENT, AQUATIC ORGANISMS, FRESH WATER*

FREUND'S ADJUVANT
SEE IMMUNOLOGICAL PREPARATIONS, ADJUVANTS IMMUNOLOGIC, FREUND'S ADJUVANT

FRICTIONAL PROPERTIES
SEE MOLECULAR FRICTIONAL PROPERTIES

FROGS AND TOADS
SEE AMPHIBIANS, ANURANS*

FRONTAL LOBE
SEE BRAIN, CEREBRUM, FRONTAL LOBE

FRUCTOSE
SEE HEXOSES, FRUCTOSE

FRUCTOSE 1,6-DIPHOSPHATASE
SEE PHOSPHOMONOESTERASES, FRUCTOSE 1,6-DIPHOSPHATASE

FSF
SEE BLOOD COAGULATION, FIBRIN STABILIZING FACTOR

FUNCTIONAL GROUPS (CHEMISTRY)
SEE CHEMICAL REACTION SITES, FUNCTIONAL GROUPS

FUNCTIONAL NEUROMUSCULAR STIMULATORS (FOR NEUROMOTOR DISORDERS)
SEE NEUROMUSCULAR STIMULATORS (FOR NEUROMOTOR DISORDERS)

FUND RAISING
SEE HEALTH ECONOMICS, FUND RAISING

FUNGAL ANTIBODIES
SEE IMMUNOLOGY, ANTIBODIES FUNGAL

FUNGAL ANTIGENS
SEE IMMUNOLOGY, ANTIGENS FUNGAL

FUNGI*
SEE ALSO BACTERIOLOGY AND MYCOLOGY STUDY SECTION
SEE ALSO TOXICOLOGY, MYCOTOXINS
P01HL-08214-15 0048 Chemical and biological properties of lipids - Lipids in microorganisms and plants
P50HL-15389-07 0019 Pulmonary SCOR--Hypersensitivity pneumonitis - Microbiology core (human, animal)

FUNGICIDES
SEE COMMUNICABLE DISEASE CONTROL AGENTS, ANTIFUNGAL

FURANS
SEE OXOLES, FURANS

FURO(BETA)MONAZOLE
SEE OXAZOLES

FURSEMIDE
SEE SULFANILAMIDES, FURSEMIDE

GAGGING REFLEX
SEE RESPIRATORY SYSTEM REFLEXES

GALACTANS
SEE HEXOSANS, GALACTAN

GALACTOSAMINES
SEE HEXOSES, GALACTOSAMINES

BETA-GALACTOSIDASE
SEE CARBOHYDRASES, BETA-GALACTOSIDASE

GALACTOSYLTRANSFERASES
SEE GLYCOSYLTRANSFERASES, GALACTOSYLTRANSFERASES

GALLBLADDER DISORDERS
SEE BILIARY TRACT DISORDERS, GALLBLADDER DISORDERS

GALLIUM RADIOISOTOPES (67,68)
SEE RADIOISOTOPES, GALLIUM

GALLSTONES
SEE BILIARY TRACT DISORDERS, CHOLELITHS

GAMMA GLOBULINS
SEE GLOBULINS, GAMMA GLOBULINS

GAMMA GLOBULINS 7S
SEE GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN G

GAMMA GLOBULINS 19S
SEE GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN M

GAMMA RAY SCANNING
SEE RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING*

GANGLIA NERVOUS SYSTEM
SEE NERVOUS SYSTEM, GANGLIA

GANGLIONIC BLOCKING AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, GANGLIONIC BLOCKING AGENTS

GANGLIONIC STIMULATING AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, GANGLIONIC STIMULATING AGENTS

GANGRENE (GENERAL)
SEE DISEASES, PATHOLOGIC PROCESSES, NECROSIS, GANGRENE (GENERAL)

GARLIC AND ONION
SEE PLANTS, ANGIOSPERMS, ALLIUM*

GAS ANALYZERS, RESPIRATORY GASES
SEE RESPIRATORY GAS ANALYZERS*

GAS CHROMATOGRAPHY
SEE PHYSICAL SEPARATION, CHROMATOGRAPHY, GAS*

GAS ELEMENTS, HELIUM
P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
P01HL-08899-14 0064 Tolerance to respiratory gases in health and disease - Narcotic effects of inert gases on functional systems (rats)
P01HL-08899-14 0073 Tolerance to respiratory gases in health and disease - Biophysical mechanisms involved in isobaric gas counterdiffusion syndrome
P01HL-14414-07 0004 Environmental influences on cardiorespiratory and cellular functions - Role of diffusion in gas exchange (chicken egg)
R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)

GAS ELEMENTS, INERT
** P01HL-07896-15 0008 Environmental biomedical research program - Otologic studies under hyperbaric conditions (human, animals)
P01HL-07896-15 0009 Environmental biomedical research program - Decompression sickness and computation of safe diving tables (human, animals)
P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
P01HL-07896-15 0050 Environmental biomedical research program - Fundamental decompression concepts using the rat animal model
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
** P01HL-08899-14 0003 Tolerance to respiratory gases in health and disease - Inert gas exchange in the eye (human, dogs)
** P01HL-08899-14 0006 Tolerance to respiratory gases in health and disease - Effects of extreme pressures of inert gases in macaque monkey
P01HL-08899-14 0018 Tolerance to respiratory gases in health and disease - Effects of respiratory gases at extreme pressures (human)
** P01HL-08899-14 0022 Tolerance to respiratory gases in health and disease - Effect of inert gas and hydrostatic pressures on physiological functions (monkey)
** P01HL-08899-14 0028 Tolerance to respiratory gases in health and disease - Inert gas exchange, oxygen influences-organs and tissues (human, rabbits, dogs)
** P01HL-08899-14 0029 Tolerance to respiratory gases in health and disease - Isobaric gas counter diffusion phenomena (human, pigs)
P01HL-08899-14 0073 Tolerance to respiratory gases in health and disease - Biophysical mechanisms involved in isobaric gas counterdiffusion syndrome
P01HL-08899-14 0076 Tolerance to respiratory gases in health and disease - Bubble formation during gas counterdiffusion (hamsters)
** P01HL-08899-14 0077 Tolerance to respiratory gases in health and disease - Isobaric gas supersaturation patterns
P01HL-08899-14 0079 Tolerance to respiratory gases in health and disease - Physiological factors in counterdiffusion bubble formation (human, pigs)
P01HL-08899-14 0089 Tolerance to respiratory gases in health and disease - Decompression by applications of optimal control theory
P01HL-12157-11 0038 Functions and mechanisms of cell membrane ion transport - Mechanisms and interactions of gases and ions with bilayer membranes (human)
R01HL-12879-09 0007 Pulmonary transport and metabolism in vivo - Effects of temperature changes on pulmonary transport
P01HL-14414-07 0004 Environmental influences on cardiorespiratory and cellular functions - Role of diffusion in gas exchange (chicken egg)
P01HL-14414-07 0010 Environmental influences on cardiorespiratory and cellular functions - Pressure effects on cardiac electrical phenomena (animals)
M P01HL-15194-07 Pathophysiology of cardiopulmonary dysfunction
P01HL-15194-07 0023 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Diffusion and cardiogenic agitation (dogs)
P01HL-15194-07 0024 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Airflow limitation in COLD (human)
R01HL-19449-03 Gas exchange in acute respiratory failure

GAS ELEMENTS, NEON
P01HL-08899-14 0064 Tolerance to respiratory gases in health and disease - Narcotic effects of inert gases on functional systems (rats)
R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)

GAS ELEMENTS, OZONE
P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways hyperirritability (animals)
P01HL-06370-17 0006 Cardiopulmonary and renal pathology research center - Chemical basis of ultrastructural changes in disease (rats)
P50HL-15061-07 0012 Response of lung to injury - Hyperbaric oxygen, carbon monoxide, and ozone or peroxide toxicity (rats)
R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
R01HL-18918-03 Characterization of lung elastins (rat, rabbit, chicken, Rhesus)
** P50HL-19156-02 0001 Pulmonary SCOR--Chronic diseases of airways - Irritability of airways induced by epithelial damage in healthy subjects (human)
P50HL-19156-02 0005 Pulmonary SCOR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
R01HL-19668-03 Biochemistry of lung connective tissue (rats)
R01HL-19720-03 Evaluation of anti-fibrotic agents in pulmonary fibrosis (rats)
R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)

GAS ELEMENTS, XENON
SEE ALSO RADIOISOTOPES, XENON
R01HL-20761-02 Study of cerebral blood flow with stable xenon and computerized tomography

GAS TENSIONS, RESPIRATORY GASES
SEE RESPIRATORY GAS LEVELS

GAS TRANSPORT, HYDROGEN
SEE CHEMICAL TRANSFER, HYDROGEN TRANSPORT

GAS TRANSPORT RESPIRATORY
SEE RESPIRATORY GAS TRANSPORT

GASES (GENERAL)
P01HL-07896-15 0045 Environmental biomedical research program - Extravascular lung water dynamics in pulmonary oxygen toxicity (human, baboons)
** P01HL-12157-11 0038 Functions and mechanisms of cell membrane ion transport - Mechanisms and interactions of gases and ions with bilayer membranes (human)
R01HL-13651-07 X-ray photoelectron spectroscopy of heme compounds
P01HL-16137-05 0008 Alveolar biology - Macromolecular events in pulmonary cells in toxic environments (animals)
R01HL-21120-02 Membrane dynamics in alveolar macrophages (rabbits)

GASES, RESPIRATORY
SEE RESPIRATORY GASES

GASTRIC ACID
SEE GASTROINTESTINAL SYSTEM, STOMACH, GASTRIC JUICE, GASTRIC ACID

GASTRIC JUICE
SEE GASTROINTESTINAL SYSTEM, STOMACH, GASTRIC JUICE

GASTRIC JUICE INHIBITORS
SEE GASTROINTESTINAL SYSTEM, STOMACH, GASTRIC JUICE INHIBITORS

GASTRIN
SEE GASTROINTESTINAL HORMONES, GASTRIN

GASTROINTESTINAL ABSORPTION-TRANSPORT
SEE GASTROINTESTINAL FUNCTION, ABSORPTION-TRANSPORT (GENERAL)

GASTROINTESTINAL AGENTS, LAXATIVES
P01HL-20993-02 0004 Population dynamics of arterial cells in atherogenesis - Modifications of cholesterol balance related to arterial cell divisions (swine)

GASTROINTESTINAL CIRCULATION
SEE ALSO LIVER CIRCULATION
R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
R01HL-03181-21 0028 Hemodynamics as applied to surgical problems - Extra-renal factors in the hypertension of coarctation (dog)
** P01HL-11678-11 0039 Cardiovascular dynamics and their control - Capillary and interstitial fluid dynamics of the intestine (cats)
R01HL-11901-12 0015 Effects of metabolic surgery on the hyperlipidemias - Portacaval shunt for cholesterol reduction (dogs, rabbits)
R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)
** R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
** R01HL-15607-06 Physiological control of splanchnic circulation (dogs)
R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
R01HL-17091-05 Anesthetics and microvascular response to hemorrhage (rats)
** R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)

(contd)

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See Appendix for investigator's name and grant number.

** R01HL-18020-04 Splanchnic hemodynamics in man
** R01HL-18080-03 Extrinsic control of intestinal microcirculation (dogs)
** R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
R01HL-18994-03 Substance P–Occurrence, pharmacology and physiology (mammals non-human, human)
** R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
** R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
** R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood flow in hypertension (rats)
R01HL-20685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)
R01HL-20766-02 Control of circulation in heat stress (baboons)
** R01HL-20864-01 Postnatal maturation of cardiovascular regulatory system (minipig)
** R01HL-21308-01 Prostaglandins and local control of the circulation (rats, dogs)
** R01HL-21351-02 Renal and vascular control by sympathetic ganglia (animals)
** R01HL-22506-01 Hemodynamics of the clinical hypertensions
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)

GASTROINTESTINAL CIRCULATORY DISORDERS
SEE ALSO LIVER CIRCULATORY DISORDERS
R01HL-13341-06 Lymph–An indication of splanchnic tissue respiration (dogs, human, rats)

GASTROINTESTINAL CIRCULATORY DISORDERS, CIRCULATORY INSUFFICIENCY
** R01HL-03181-21 0027 Hemodynamics as applied to surgical problems - Hemodynamic studies of the GI tract (dogs)
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
R01HL-18080-03 Extrinsic control of intestinal microcirculation (dogs)
R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)

GASTROINTESTINAL CIRCULATORY DISORDERS, ESOPHAGEAL VARICES
R01HL-18020-04 Splanchnic hemodynamics in man

GASTROINTESTINAL CIRCULATORY DISORDERS, HEMORRHAGE, GASTROINTESTINAL
R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)

GASTROINTESTINAL CIRCULATORY INSUFFICIENCY
SEE GASTROINTESTINAL CIRCULATORY DISORDERS, CIRCULATORY INSUFFICIENCY

GASTROINTESTINAL DISORDERS
SEE ALSO GASTROINTESTINAL CIRCULATORY DISORDERS
SEE ALSO LIVER DISORDERS
R01HL-18994-03 Substance P–Occurrence, pharmacology and physiology (mammals non-human, human)

GASTROINTESTINAL DISORDERS, DIVERTICULITIS
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)

GASTROINTESTINAL DISORDERS, DUODENAL, DUODENAL ULCER
M P01HL-06370-17 Cardiopulmonary and renal pathology research center
** P01HL-06370-17 0015 Cardiopulmonary and renal pathology research center - Pathogenesis of chemically induced tissue injury (rats)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)

GASTROINTESTINAL DISORDERS, EMESIS
SEE ALSO GASTROINTESTINAL SIGNS-SYMPTOMS, NAUSEA
R01HL-21117-01 Altitude adaptation in chronic lung disease (human)

GASTROINTESTINAL DISORDERS, ENTERITIS, ULCERATIVE COLITIS
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)

GASTROINTESTINAL DISORDERS, INTESTINAL DISORDERS (GENERAL)
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)

GASTROINTESTINAL DISORDERS, MALABSORPTION SYNDROMES
SEE ALSO GASTROINTESTINAL FUNCTION, ABSORPTION-TRANSPORT (GENERAL)
SEE ALSO METABOLIC DISORDERS INBORN, CYSTIC FIBROSIS
SEE ALSO METABOLIC DISORDERS INBORN, DISACCHARIDE (OLIGOSACCHARIDE) INTOLERANCE
SEE ALSO METABOLIC DISORDERS INBORN, HYPOLIPOPROTEINEMIAS FAMILIAL, ABETALIPOPROTEINEMIA

** R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)

GASTROINTESTINAL DISORDERS, PEPTIC ULCER
SEE ALSO GASTROINTESTINAL DISORDERS, DUODENAL, DUODENAL ULCER
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase

GASTROINTESTINAL DISORDERS CHEMOTHERAPY
SEE ALSO BILIARY TRACT DISORDERS CHEMOTHERAPY
SEE ALSO GASTROINTESTINAL FUNCTION, ABSORPTION-TRANSPORT, DRUGS
SEE ALSO GASTROINTESTINAL PHARMACOLOGY
SEE ALSO LIVER DISORDERS CHEMOTHERAPY
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase

GASTROINTESTINAL EXCRETA, FECES
R23HL-21083-02 Pharmacokinetics of digoxin and digitoxin in humans (rats)

GASTROINTESTINAL FUNCTION, ABSORPTION-TRANSPORT (GENERAL)
SEE ALSO BILE ACIDS AND SALTS, ENTEROHEPATIC CIRCULATION
SEE ALSO GASTROINTESTINAL DISORDERS, MALABSORPTION SYNDROMES
** R01HL-09610-14 Control of cholesterol metabolism--Bile acid transport
R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
R01HL-11901-12 0015 Effects of metabolic surgery on the hyperlipidemias - Portacaval shunt for cholesterol reduction (dogs, rabbits)
** R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
R01HL-22561-01 Hormonal control of mesenteric circulation (cats)
** R01HL-22569-02 Intestinal secretion–Capillary and tissue forces (dogs, cats)

GASTROINTESTINAL FUNCTION, ABSORPTION-TRANSPORT, DIETARY NUTRIENTS
R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)
R01HL-09610-14 Control of cholesterol metabolism--Bile acid transport
R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
R01HL-11901-12 0001 Effects of metabolic surgery on the hyperlipidemias - Partial ileal bypass (human)
** R01HL-11901-12 0012 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass–Animal atherosclerosis implications (pigeons, dogs, rabbits)
R01HL-11901-12 0013 Effects of metabolic surgery on the hyperlipidemias - Human cholesterol and bile acids dynamics–Ileal bypass
R01HL-11901-12 0019 Effects of metabolic surgery on the hyperlipidemias - Cholesterol, bileacids, lipoproteins in obese humans
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
** R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
** R01HL-18636-02 Fatty acids and cholesterol transport (rats)
** P50HL-19362-02 0009 A/S SCOR–Atherosclerosis in nonhuman primates - Cholesterol metabolism and intestinal microflora (baboon)
P50HL-19362-02 0013 A/S SCOR–Atherosclerosis in nonhuman primates - Core laboratory–Lipid biochemistry (baboons)
** R01HL-20605-02 Microvascular responses during intestinal absorption (rats)
** R01HL-22567-01 Validation of a cholesterol absorption method in man

GASTROINTESTINAL FUNCTION, ABSORPTION-TRANSPORT, DRUGS
R01HL-18068-02 Chemistry and activity of homologous heparin fractions (rodents)
R01HL-19820-02 The chemistry and biological effects of heparin (Rhesus, human, other mammals)
** R01HL-21476-02 Anticoagulant drug absorption interactions (rats)

GASTROINTESTINAL FUNCTION, DEGLUTITION
P50HL-14214-07 0027 Newborn lung center for hyaline membrane disease - Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep)

GASTROINTESTINAL FUNCTION, DIGESTION
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)

GASTROINTESTINAL HEMORRHAGE
SEE GASTROINTESTINAL CIRCULATORY DISORDERS, HEMORRHAGE, GASTROINTESTINAL

GASTROINTESTINAL HORMONES
** P50HL-14187-07 0012 Pulmonary SCOR–Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)

GASTROINTESTINAL HORMONES, GASTRIN
SEE ALSO GASTROINTESTINAL SYSTEM, STOMACH, GASTRIC JUICE
** R01HL-11901-12 0014 Effects of metabolic surgery on the hyperlipidemias - Effect of bypass on gastrin levels (dogs, human)
R01HL-11901-12 0019 Effects of metabolic surgery on the hyperlipidemias - Cholesterol, bileacids, lipoproteins in obese humans
R01HL-22561-01 Hormonal control of mesenteric circulation (cats)

GASTROINTESTINAL HORMONES, PANCREOZYMIN-CHOLECYSTOKININ
R01HL-22561-01 Hormonal control of mesenteric circulation (cats)

GASTROINTESTINAL HORMONES, SECRETIN
R01HL-22561-01 Hormonal control of mesenteric circulation (cats)
R01HL-22569-02 Intestinal secretion–Capillary and tissue forces (dogs, cats)

GASTROINTESTINAL PHARMACOLOGY
SEE ALSO BILIARY TRACT PHARMACOLOGY
SEE ALSO GASTROINTESTINAL DISORDERS CHEMOTHERAPY
R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
R01HL-17564-03 Unsaturated fats–Mode of hypocholesterolemic action (minipig)
R01HL-18080-03 Extrinsic control of intestinal microcirculation (dogs)
R01HL-22567-01 Validation of a cholesterol absorption method in man

GASTROINTESTINAL PRESSURE-MOTILITY
SEE ALSO GASTROINTESTINAL DISORDERS, EMESIS
R01HL-18994-03 Substance P–Occurrence, pharmacology and physiology (mammals non-human, human)

GASTROINTESTINAL SIGNS-SYMPTOMS, NAUSEA
SEE ALSO GASTROINTESTINAL DISORDERS, EMESIS
R01HL-21117-01 Altitude adaptation in chronic lung disease (human)

GASTROINTESTINAL SURGERY
R01HL-11901-12 0015 Effects of metabolic surgery on the hyperlipidemias - Portacaval shunt for cholesterol reduction (dogs, rabbits)

GASTROINTESTINAL SURGERY, ILEAL BYPASS-ILEECTOMY
M R01HL-11901-12 Effects of metabolic surgery on the hyperlipidemias
** R01HL-11901-12 0001 Effects of metabolic surgery on the hyperlipidemias - Partial ileal bypass (human)
** R01HL-11901-12 0004 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass–Cholesterol dynamics studies (rats, rabbits, dogs)
** R01HL-11901-12 0006 Effects of metabolic surgery on the hyperlipidemias - Drug therapy with ileal bypass (rabbits)
** R01HL-11901-12 0012 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass–Animal atherosclerosis implications (pigeons, dogs, rabbits)
** R01HL-11901-12 0013 Effects of metabolic surgery on the hyperlipidemias - Human cholesterol and bile acids dynamics–Ileal bypass
** R01HL-11901-12 0014 Effects of metabolic surgery on the hyperlipidemias - Effect of bypass on gastrin levels (dogs, human)
R01HL-11901-12 0015 Effects of metabolic surgery on the hyperlipidemias - Portacaval shunt for cholesterol reduction (dogs, rabbits)
** R01HL-11901-12 0018 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass–Postoperative complications (human)
** R01HL-11901-12 0019 Effects of metabolic surgery on the hyperlipidemias - Cholesterol, bileacids, lipoproteins in obese humans
** R01HL-11901-12 0020 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass–Endogenous animal model of obesity (rats)
P50HL-14236-05 0009 Prevention of premature arteriosclerosis - Clinical studies on cholesterol metabolism (human)
M P01HL-15265-05 Program on surgical control of the hyperlipidemias

(contd)

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** P01HL-15265-05 0004 Program on surgical control of the hyperlipidemias Coordinating center and central data processing facility
** P01HL-15265-05 0011 Program on surgical control of the hyperlipidemias Central electrocardiography laboratory (human)
** P01HL-15265-05 0012 Program on surgical control of the hyperlipidemias Central arteriography-Radiography laboratory (human)
** P01HL-15265-05 0013 Program on surgical control of the hyperlipidemias - Clinical center - Minnesota
** P01HL-15265-05 0014 Program on surgical control of the hyperlipidemias - Arkansas clinical center
R01HL-15949-05 Lipoprotein metabolism in relation to atherosclerosis (human, baboons)
R01HL-18610-03 Early intervention of age related arterial changes (pigeon)

GASTROINTESTINAL SYSTEM (GENERAL)
SEE ALSO LIVER
SEE ALSO PANCREAS
P01HL-12157-11 0058 Functions and mechanisms of cell membrane ion transport - Ionic and osmotic regulation in toadfish--A euryhaline aglomerular teleost
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
R01HL-22201-01 Pharmacology and chemistry of nudibranch toxins (guinea pigs, rats, mice)

GASTROINTESTINAL SYSTEM, ESOPHAGUS
P01HL-06308-18 0043 Mechanisms and therapy of circulatory disease - Exercise and echocardiographic examining techniques (human)
** R01HL-22326-01 Noninvasive measurement of cardiac output (dogs)

GASTROINTESTINAL SYSTEM, INTESTINES
** R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
** P01HL-11678-11 0039 Cardiovascular dynamics and their control - Capillary and interstitial fluid dynamics of the intestine (cats)
P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
R01HL-18994-03 Substance P--Occurrence, pharmacology and physiology (mammals non-human, human)
R01HL-20397-03 VLDL-TG metabolism in diabetes mellitis (human, rat)

GASTROINTESTINAL SYSTEM, INTESTINES, LARGE INTESTINE, COLON
R01HL-09610-14 Control of cholesterol metabolism--Bile acid transport
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)

GASTROINTESTINAL SYSTEM, INTESTINES, MUCOSA
R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
** P01HL-17421-05 0003 Regulation and exchange in the microcirculation - Transcapillary fluid exchange in rat intestinal muscle, mucosa, and mesentery
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
P50HL-19157-02 0009 Studies in cystic fibrosis and bronchiolitis - Polyamine metabolism in cystic fibrosis (human, rat)
R01HL-20605-02 Microvascular responses during intestinal absorption (rats)

GASTROINTESTINAL SYSTEM, INTESTINES, MUCOSA, VILLI
R01HL-20605-02 Microvascular responses during intestinal absorption (rats)

GASTROINTESTINAL SYSTEM, INTESTINES, SMALL INTESTINE, ILEUM
R01HL-09610-14 Control of cholesterol metabolism--Bile acid transport
R01HL-18219-04 Regulation of cholesterol metabolism (rats)
P50HL-19362-02 0009 A/S SCOR--Atherosclerosis in nonhuman primates - Cholesterol metabolism and intestinal microflora (baboon)

GASTROINTESTINAL SYSTEM, INTESTINES, SMALL INTESTINE, JEJUNUM
R01HL-11901-12 0018 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass--Postoperative complications (human)
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)

GASTROINTESTINAL SYSTEM, STOMACH, GASTRIC JUICE
SEE ALSO GASTROINTESTINAL HORMONES, GASTRIN
R01HL-18994-03 Substance P--Occurrence, pharmacology and physiology (mammals non-human, human)

GASTROINTESTINAL SYSTEM, STOMACH, GASTRIC JUICE, GASTRIC ACID
R01HL-03181-21 0027 Hemodynamics as applied to surgical problems Hemodynamic studies of the GI tract (dogs)

GASTROINTESTINAL SYSTEM, STOMACH, GASTRIC JUICE INHIBITORS
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase

GASTROINTESTINAL VISUALIZATION*
R01HL-13885-08 9003 Cystic fibrosis and pulmonary disease - Fiberoptic bronchoscopy core facility (human, dogs, sheep)

GASTROPODS
SEE MOLLUSKS, GASTROPODS*

GEL ELECTROPHORESIS
SEE PHYSICAL SEPARATION, ELECTROPHORESIS, GEL*

GEL FILTRATION CHROMATOGRAPHY
SEE PHYSICAL SEPARATION, CHROMATOGRAPHY, GEL FILTRATION (PERMEATION)*

GEL PERMEATION CHROMATOGRAPHY
SEE PHYSICAL SEPARATION, CHROMATOGRAPHY, GEL FILTRATION (PERMEATION)*

GELATIN
SEE ALBUMINOIDS, GELATIN

GELS
SEE PHYSICAL PROPERTIES, COLLOIDS, GELS

GELS (DOSAGE FORM)
SEE DOSAGE FORMS

GENE EXPRESSION
SEE GENETICS, GENES, GENE EXPRESSION

GENE INSERTION INTO FOREIGN HOSTS
SEE GENETIC MANIPULATION

GENE THERAPY
SEE GENETIC DISORDERS, GENE THERAPY

GENERAL MEDICINE STUDY SECTION
** R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
** R01HL-06481-15 Lipid metabolism (human, rats)
** R01HL-09610-14 Control of cholesterol metabolism--Bile acid transport
** R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
** R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
** R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
** R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
** R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
** R01HL-13408-05 Environmental-genetic interactions in hypertension (rats)
** R01HL-14133-08 Intrarenal regulation of sodium reabsorption (dogs, hamsters, rats)
** R01HL-14720-08 Factors governing the renal excretion of acid (humans, rats)
** R01HL-14914-06 Autoregulation of glomerular filtration rate (rats)
** R01HL-16490-04 Structural basis of nephron filtration (rats, rabbits)
** R01HL-18097-04 Pathogenesis of acute renal failure (rats)
** R01HL-18185-04 Cardiac glycosides and diuretics--Role of NaO pump (dogs)
** R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
** R01HL-19463-02 Pathophysiology of acute renal failure (rats)
** R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
** R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)
** R01HL-20278-02 Cellular mechanisms of renin secretion (rats)
** R01HL-21849-02 Control of sodium transport and cellular respiration (toad bladder)
** R01HL-22051-01 Role of angiotensin II in vasopressin release (human)

GENES
SEE GENETICS, GENES

GENETIC CODING
SEE GENETICS, GENETIC CODING

GENETIC COUNSELING
SEE GENETIC DISORDERS, GENETIC COUNSELING

GENETIC DEREPRESSION
SEE GENETICS, GENETIC REGULATION, GENETIC INDUCTION REPRESSION-DEREPRESSION

GENETIC DISORDERS (SEE ALSO APPROPRIATE CONGENITAL ABNORMALITIES)
SEE ALSO BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC CONGENITAL (GENERAL)
SEE ALSO BLOOD AND RE DISORDERS CONGENITAL (HEREDITARY)
SEE ALSO CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), GENETICS-ASSOCIATED
SEE ALSO CONGENITAL ABNORMALITIES
SEE ALSO CONGENITAL ABNORMALITIES, HEART DEFECTS, ASYMMETRIC SEPTAL HYPERTROPHY
SEE ALSO DISEASE PRONENESS-RISK
SEE ALSO GENETICS, MUTATION
SEE ALSO METABOLIC DISORDERS INBORN
** P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel disease--Cell and matrix response (human, mice)
P01HL-10436-13 0016 A multidisciplinary study of congenital heart disease - Genetic studies of congenital heart disease (human)
** R01HL-10942-09 Study of genetic hypertension in rats
R01HL-13626-06 Lipoprotein lipase and lipoprotein removal (human, rats, bacteria)
** P50HL-14153-07 0001 Johns Hopkins Lung Center--Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
** R01HL-14913-06 Hypertension--Genetic influence of kidney (rats)
** R01HL-15125-07 Molecular pathology of genetic disorders in man
R01HL-15808-06 Role of angiotensinogen in hypertension and stroke (human, rabbits)
R01HL-15949-05 Lipoprotein metabolism in relation to atherosclerosis (human, baboons)
P60HL-15996-06 0009 Cincinnati comprehensive sickle cell center - Insurance coverage of persons with sickle cell trait and disease
P01HL-17430-05 0001 Control of coagulation - Porcine von Willebrand's disease
** R01HL-18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
R01HL-18893-03 Mechanism of angiotensin action--Role of receptor (rats)
R01HL-19930-03 A prospective study--Blood pressure in newborn twins
** R01HL-20034-03 Hypertension--Psychophysiologic and genetic precursors (human)
R01HL-20604-03 Sympathectomy--Cardiovascular and molecular pharmacology (animals)
** R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
P01HL-20948-02 0001 Molecular basis of cholesterol metabolism - Biochemical and ultrastructural characterization of LDL in human fibroblasts
P01HL-20948-02 0004 Molecular basis of cholesterol metabolism - Genetic analysis of the LDL pathway (human)
R01HL-21912-01 Biosynthesis of lipoic acid and atherosclerosis (birds, chick embryos)
** R01HL-22261-01 Compliance of fluid spaces in advancing hypertension (rats)
** R23HL-22438-01 The etiology of genetic hypertension (rats)
** R23HL-22959-01 Heart development in inherited cardiomyopathy (hamsters)
R01HL-23194-02 Genetics of hypertension and associated variables (human)

GENETIC DISORDERS, AUTOSOMAL RECESSIVE CONDITIONS
SEE ALSO CONGENITAL ABNORMALITIES, NEUROLOGICAL, DYSAUTONOMIA FAMILIAL
SEE ALSO HEMOPROTEINS, HEMOGLOBINOPATHIES, SICKLE CELL ANEMIA
SEE ALSO METABOLIC DISORDERS INBORN, AMINOACIDOPATHIES, HOMOCYSTINURIA
SEE ALSO METABOLIC DISORDERS INBORN, CYSTIC FIBROSIS
R01HL-19430-03 Congenital heart malformations and situs inversus (mice)
R01HL-22505-01 Molecular pathology of fibrinogen and factor XIII (human, animals)

GENETIC DISORDERS, BLOOM'S SYNDROME
P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics

GENETIC DISORDERS, CHROMOSOME ABNORMALITIES
** P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique
** P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

GENETIC DISORDERS, GENE THERAPY

SEE ALSO ENZYME THERAPY

R01HL-20912-02 Control on non-alpha chain synthesis in thassemic mice

** R23HL-21428-02 Expression of human globin in thalassemia (human)

GENETIC DISORDERS, GENETIC COUNSELING

SEE ALSO GENETICS, KARYDTYPES

P01HL-06350-17 0015 Hemostasis research program project - Genetics (human)

P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics

P60HL-15157-07 0001 Comprehensive center for sickle cell disease - Screening program (human)

** P60HL-15157-07 0003 Comprehensive center for sickle cell disease - Public education

** P60HL-15158-07 0009 Comprehensive sickle cell center - Counseling and social services

P60HL-15158-07 0011 Comprehensive sickle cell center - Clinical services--Adult patients

M P60HL-15160-07 Center for sickle cell disease

** P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies--Dimensions, effectiveness

** P60HL-15160-07 0017 Center for sickle cell disease - Oemonstration--Education, screening, counseling, patient care

** P60HL-15162-07 0011 Comprehensive sickle cell center - Core program--Genetic counseling and diagnostic screening

P60HL-15168-07 0002 Comprehensive sickle cell disease center - Patient care

** P60HL-15168-07 0003 Comprehensive sickle cell disease center - Sickle cell education and training program

P60HL-15168-07 0010 Comprehensive sickle cell disease center - Sickle cell center project (children)

P60HL-15169-05 0021 Support for center for sickle cell disease - Multidisciplinary module system for education, screening and counseling

** P60HL-15170-05 0030 Support for center for sickle cell anemia - Adult services--Counseling program

** P60HL-15996-06 0007 Cincinnati comprehensive sickle cell center - Screening and counseling

** P60HL-15999-05 0004 Miami comprehensive sickle cell center - Education, screening and counseling

P60HL-15999-05 0005 Miami comprehensive sickle cell center - Sickle cell clinic

P60HL-16005-05 0001 Comprehensive sickle cell center - Demonstration--Community service component

P60HL-16008-06 0001 Wayne State University comprehensive sickle cell center - Patient care system (children, adults)

** P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling

** R01HL-17465-04 Beta-thalassemia screening and genetic counseling

M P60HL-20985-01 Northern California sickle cell center

** P60HL-20985-01 0009 Northern California sickle cell center - Patient services (children, adults)

P60HL-20985-01 0010 Northern California sickle cell center - Prenatal diagnosis of sickle cell anemia

P01HL-21016-02 0017 Sickle cell anemia and other hemoglobinopathies - The hereditary clinic core

M P60HL-23282-01 Comprehensive hospital/community sickle cell center

** P60HL-23282-01 9001 Comprehensive hospital/community sickle cell center - Core--Institutionalization of education, screening and counseling

P60HL-23282-01 9002 Comprehensive hospital/community sickle cell center - Core--Model sickle cell service for neighborhood health centers

GENETIC DISORDERS, METABOLIC ERRORS

SEE METABOLIC DISORDERS INBORN

GENETIC DISORDERS DIAGNOSIS*

SEE ALSO METABOLIC DISORDERS INBORN DIAGNOSIS*

SEE ALSD PREGNANCY, ANTEPARTUM DIAGNDSIS

P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique

R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)

** P60HL-15162-07 0018 Comprehensive sickle cell center - Biochemical and genetic studies of sickle cell anemia (human)

P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)

R01HL-16774-04 Genetic epidemiology of hyperlipemia (Honolulu)

R01HL-17551-04 Biosynthesis and metabolism of procollagen (human, monkeys, mice)

R01HL-18553-03 Membrane defects in familial hypercholesteremia (human)

** R01HL-18687-03 Pathophysiology of genetic hypertriglycerinemias (human)

R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)

** R01HL-18878-03 Familial hypercholesteremia--Studies of fibroblasts (human)

R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)

R01HL-20807-02 Oetection of familial hypercholesterolemia (human)

** R01HL-21156-02 Antitrypsin and other causes of chronic lung disease

R01HL-21487-01 Molecular characterization of Glanzmann's thrombasthenia (human)

R01HL-21971-01 Atherosclerotic disease and risk factors in twins (human)

GENETIC DISORDERS OF AUTONOMIC NERVOUS SYSTEM

SEE CDNGENITAL ABNORMALITIES, NEURDLOGICAL, DYSAUTDNOMIA FAMILIAL

GENETIC DISORDERS OF BLOOD (AND RE SYSTEM)

SEE BLDDO AND RE DISDROERS CDNGENITAL (HEREOITARY)

GENETIC ENGINEERING

SEE GENETIC MANIPULATIDN

GENETIC INDUCTION-REPRESSION-DEREPRESSION

SEE GENETICS, GENETIC REGULATIDN, GENETIC INDUCTIDN-REPRESSIDN-DEREPRESSIDN

GENETIC MANIPULATION

R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)

R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)

R23HL-21428-02 Expression of human globin in thalassemia (human)

R01HL-21831-05 Determining sequences from hemoglobin messenger RNA (mice, chickens, rabbits)

** R23HL-22839-01 Cellular translation of liposomally-delivered mRNA (human, mammals)

GENETIC MAPPING

** R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)

M P01HL-06314-17 Immunologic mechanisms in cardiovascular disease

** P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man

M P01HL-09011-15 A research and resource program in blood

** P01HL-09011-15 0001 A research and resource program in blood - Genetic markers of human blood and gene mapping (human)

** P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics

R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)

P01HL-16851-04 0005 Human red cell membrane in health and disease - Relation of hemoglobin species to membrane properties (human)

** P60HL-17265-04 0008 Community blood resource center support - Research--Blood genetic markers as biological probes (human)

R01HL-20912-02 Control on non-alpha chain synthesis in thassemic mice

R01HL-20922-02 Control of human fetal hemoglobin synthesis

P01HL-21016-02 0012 Sickle cell anemia and other hemoglobinopathies - Stimulation of Hb F synthesis in a permanent cell line

R01HL-22174-01 Assembly of membranes in heart and yeast mitochondria

GENETIC MAPPING, GENETIC MARKERS

R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)

** P01HL-09011-15 0001 A research and resource program in blood - Genetic markers of human blood and gene mapping (human)

P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics

P01HL-09011-15 0018 A research and resource program in blood - Hepatitis B in normal populations--Epidemiology, risk factors and transmission

P50HL-14153-07 0001 Johns Hopkins Lung Center--Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)

P01HL-16851-04 0005 Human red cell membrane in health and disease - Relation of hemoglobin species to membrane properties (human)

P60HL-17265-04 0008 Community blood resource center support - Research--Blood genetic markers as biological probes (human)

R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)

R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)

R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)

P01HL-20993-02 0003 Population dynamics of arterial cells in atherogenesis - Clonal phenomena in atherogenesis (human, hares)

R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)

R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)

R01HL-23194-02 Genetics of hypertension and associated variables (human)

R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)

** R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)

GENETIC MAPPING, LINKAGE

P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man

P01HL-09011-15 0001 A research and resource program in blood - Genetic markers of human blood and gene mapping (human)

P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics

P01HL-09011-15 0012 A research and resource program in blood - Theoretical population genetics (human)

P50HL-14153-07 0001 Johns Hopkins Lung Center--Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)

P60HL-16008-06 0016 Wayne State University comprehensive sickle cell center - Red blood cell glycolysis in sickle cell patients

P60HL-17265-04 0008 Community blood resource center support - Research--Blood genetic markers as biological probes (human)

** R01HL-23194-02 Genetics of hypertension and associated variables (human)

GENETIC MARKERS

SEE GENETIC MAPPING, GENETIC MARKERS

GENETIC REGISTRIES AND REFERRAL CENTERS

SEE ALSD HEALTH RECDRO SYSTEMS, PATIENT (DISEASE) REGISTRIES

P60HL-15170-05 0030 Support for center for sickle cell anemia - Adult services--Counseling program

P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)

P01HL-16769-05 0007 Pathobiologic and host defense reactions in the lung - Immunogenetic factors in sarcoidosis (human)

R01HL-21088-02 Genetic patterns in deaths from MI and stroke in Utah

GENETIC REGULATION

SEE GENETICS, GENETIC REGULATIDN

GENETIC STRAINS

SEE BIOLOGY, SYSTEMATIC, GENETIC STRAINS

GENETICS

SEE ALSO BIOLOGY, SYSTEMATIC, EVOLUTIDN BIOCHEMICAL

SEE ALSO BLOOD GROUPS

SEE ALSO CELL DIVISION

SEE ALSO IMMUNDGENETICS (GENERAL)

SEE ALSO NEOPLASMS GENETICS

SEE ALSD NUCLEIC ACIOS REPAIR, DNA REPAIR (ENZYME)

SEE ALSO PSYCHOGENETICS-BEHAVIDRAL GENETICS

SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, ISOALLDIMMUNITY

** P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology

R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)

** P50HL-19362-02 0003 A/S SCOR--Atherosclerosis in nonhuman primates - Heritability of characters related to atherosclerosis (baboons)

P50HL-19362-02 0012 A/S SCOR--Atherosclerosis in nonhuman primates - Induction of chronic hypertension by salt loading (baboon)

GENETICS, BEHAVIORAL

SEE PSYCHOGENETICS-BEHAVIORAL GENETICS

GENETICS, CHROMOSOME COMPLEMENT, GENOME

P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)

P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of arenavirus and Bunyamweraviruses

P01HL-21016-02 0012 Sickle cell anemia and other hemoglobinopathies - Stimulation of Hb F synthesis in a permanent cell line

GENETICS, CHROMOSOMES

SEE ALSO GENETICS, KARYOTYPES

R01HL-02558-22 Structure-function relationships in the heme proteins (human, cattle)

GENETICS, CHROMOSOMES, CHROMATIN

R01HL-05360-19 Cholesterol biosynthesis and its control in liver (rats)

P01HL-06285-18 0193 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Aldosterone (rats, toads)

P01HL-09011-15 0019 A research and resource program in blood - The transport mechanism of mRNA (rat, yeast, ascites cells)

R01HL-15341-06 Lung hormonal and chromosomal regulation (rats, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P60HL-17269-04 0020 National heart and blood vessel research and demonstration center - Nucleic acid and protein metabolism in growth and development of heart (rat)
R01HL-20300-02 Histone H5 and avian erythropoiesis (chickens, rabbits)
R01HL-22367-01 Estrogen receptors in very low density lipoproteins (chicken livers)

GENETICS, CHROMOSOMES, SEX CHROMOSOMES

R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)

GENETICS, CYTOGENETICS

SEE ALSO CELL DIVISION, MITOSIS
P01HL-03174-23 0010 Mechanisms of acute vascular reaction to injury - Search for mutagens in the human blood (bacteria, animals)
R01HL-06481-15 Lipid metabolism (human, rats)
P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics

GENETICS, GENES

R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)

GENETICS, GENES, ALLELES

R01HL-22174-01 Assembly of membranes in heart and yeast mitochondria

GENETICS, GENES, GENE EXPRESSION

SEE ALSO GENETICS, GENETIC REGULATION, GENETIC INDUCTION-REPRESSION-DEREPRESSION
SEE ALSO GENETICS, GENOTYPES
P01HL-03174-23 0006 Mechanisms of acute vascular reaction to injury - Atherosclerotic plaque studies using mosaic analysis (human)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06285-18 0193 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Aldosterone (rats, toads)
P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man
P01HL-06350-17 0015 Hemostasis research program project - Genetics (human)
P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics
** P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
R01HL-12833-09 Genetic and environmental influences on lung disease (human)
P50HL-14153-07 0001 Johns Hopkins Lung Center--Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)
R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
R01HL-14865-07 Biochemical studies on the pathogenesis of emphysema (human, rats)
R01HL-15125-07 Molecular pathology of genetic disorders in man
P60HL-15158-07 0004 Comprehensive sickle cell center - Expression of abnormal hemoglobin synthesis in the neonate and young child
P60HL-15158-07 0016 Comprehensive sickle cell center - Biochemical studies in sickle cell anemia (human)
P60HL-15162-07 0018 Comprehensive sickle cell center - Biochemical and genetic studies of sickle cell anemia (human)
P01HL-15832-06 0004 Chemical-structural predispositions to lung injury - Proteolytic activity leucocytes in patients with obstructive lung disease
** P01HL-16851-04 0005 Human red cell membrane in health and disease - Relation of hemoglobin species to membrane properties (human)
R01HL-17194-03 Comparison of two inherited forms of alpha-1-antitrypsin (human)
** P60HL-17265-04 0008 Community blood resource center support - Research--Blood genetic markers as biological probes (human)
** R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
R01HL-17909-04 Drug treatment of vascular sclerotic defects (human, turkeys)
R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)
R01HL-18876-03 Human alpha-1-antitrypsin synthesis in vitro
P50HL-19157-02 0008 Studies in cystic fibrosis and bronchiolitis - Serum proteins in cystic fibrosis (human)
R01HL-19430-03 Congenital heart malformations and situs inversus (mice)
P01HL-19717-02 0002 Response of the lung to injury - Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)
** R01HL-20301-02 Genetics of glycosyltransferases in human blood
R01HL-20905-02 Synthesis of fetal hemoglobin in erythroid cells (sheep, human)
R01HL-20912-02 Control on non-alpha chain synthesis in thalassemic mice
** R01HL-20922-02 Control of human fetal hemoglobin synthesis
P01HL-21016-02 0012 Sickle cell anemia and other hemoglobinopathies Stimulation of Hb F synthesis in a permanent cell line
R01HL-21088-02 Genetic patterns in deaths from MI and stroke in Utah
** R23HL-21504-02 Collagen synthesis in pulmonary fibrosis cells (human)
R01HL-22040-01 Regulation of lysyl-cross-linking in vascular tissue (rats, turkeys)
R01HL-22729-01 Intracellular degradation of newly synthesized collagen (human, chick, rabbit)
** R01HL-23194-02 Genetics of hypertension and associated variables (human)
R01HL-23588-01 NDV infection--Analysis at the subcellular level (chickens)
N01HV-62955-04 Data collection in clinical pathology and morbid anatomy (men)

GENETICS, GENES, GENE EXPRESSION, LETHALS

R01HL-13831-08 Factors regulating embryonic cardiac morphogenesis (chick, salamandra)
** R01HL-22550-02 Genetic cardiomyopathies in salamanders and hamsters

GENETICS, GENES, GENE EXPRESSION, PLEIOTROPISM

P01HL-09011-15 0001 A research and resource program in blood - Genetic markers of human blood and gene mapping (human)
R01HL-22174-01 Assembly of membranes in heart and yeast mitochondria

GENETICS, GENES, GENE INTERACTION, COMPLEMENTATION

R01HL-19646-03 An immunologic study of hemoglobin variation in man

GENETICS, GENES, OPERON, REGULATORY GENE

** R01HL-22174-01 Assembly of membranes in heart and yeast mitochondria

GENETICS, GENES, OPERON, STRUCTURAL GENE

P60HL-20985-01 0005 Northern California sickle cell center - Molecular mechanism of alpha thalassemia--Relation to sickle cell anemia (human)

GENETICS, GENETIC CODING

SEE ALSO GENETICS, GENETIC REGULATION, GENETIC INDUCTION-REPRESSION-DEREPRESSION
SEE ALSO GENETICS, GENETIC REGULATION, GENETIC INDUCTION-REPRESSION-DEREPRESSION, TRANSCRIPTION
SEE ALSO GENETICS, GENETIC REGULATION, GENETIC INDUCTION-REPRESSION-DEREPRESSION, TRANSLATION
SEE ALSO PROTEINS BIOSYNTHESIS
P60HL-15158-07 0016 Comprehensive sickle cell center - Biochemical studies in sickle cell anemia (human)
R01HL-17710-04 Selective replication of hemoglobin genes (mice, ducks, human)

GENETICS, GENETIC REGULATION

SEE ALSO NUCLEOPROTEINS, NON-HISTONE (GENERAL)
** R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
** P01HL-09011-15 0009 A research and resource program in blood - Control of RNA synthesis in nucleated cells (yeast, ascites cell)
P01HL-09011-15 0015 A research and resource program in blood - Regulation of synthesis and transport of diverse proteins in liver (rats)
R01HL-13831-08 Factors regulating embryonic cardiac morphogenesis (chick, salamandra)
** P50HL-14164-07 0041 A/S SCOR--Comparative and experimental atherosclerosis - Nonhuman primate pediatric atherosclerosis risk factor
** R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)
** R01HL-15341-06 Lung hormonal and chromosomal regulation (rats, rabbits)
** R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
** R01HL-16654-06 Regulation in developing erythroid cells (human)
R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)
R01HL-20939-02 Regulation of fetal hemoglobin in humans
** R23HL-21663-01 Regulation of collagen biosynthesis (chick, embryo)
R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)

GENETICS, GENETIC REGULATION, GENETIC INDUCTION-REPRESSION-DEREPRESSION

SEE ALSO ENZYME INDUCTION-REPRESSION-DEREPRESSION
R01HL-02558-22 Structure-function relationships in the heme proteins (human, cattle)
P01HL-16251-06 0003 Membrane-bound enzymes in heart and other tissues Regulation of cardiac succinate dehydrogenase (yeasts, mammals)
P01HL-16251-06 0004 Membrane-bound enzymes in heart and other tissues Biosynthesis and degradation of succinate dehydrogenase, histidyl (yeast, mammal)
P60HL-17269-04 0020 National heart and blood vessel research and demonstration center Nucleic acid and protein metabolism in growth and development of heart (rat)
P01HL-17430-05 0001 Control of coagulation Porcine von Willebrand's disease
P50HL-19190-02 0003 Pulmonary SCOR-Pathophysiology, management of IRDS - Type II cells--Regulation and differentiation (rat)
R01HL-22550-02 Genetic cardiomyopathies in salamanders and hamsters

GENETICS, GENETIC REGULATION, GENETIC INDUCTION-REPRESSION-DEREPRESSION, INDUCERS

R01HL-16904-03 Regulation of smooth muscle cells in arteriosclerosis (rabbit aorta)
R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)

GENETICS, GENETIC REGULATION, GENETIC INDUCTION-REPRESSION-DEREPRESSION, REPRESSORS

P01HL-09011-15 0009 A research and resource program in blood - Control of RNA synthesis in nucleated cells (yeast, ascites cell)
P60HL-16005-05 0013 Comprehensive sickle cell center - Study of regulation of erythropoiesis in vitro (human, rat, hamster, rabbit)

GENETICS, GENETIC REGULATION, GENETIC INDUCTION-REPRESSION-DEREPRESSION, TRANSCRIPTION

R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)
** P01HL-09011-15 0009 A research and resource program in blood - Control of RNA synthesis in nucleated cells (yeast, ascites cell)
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of aronavirus and Bunyamweraviruses
** R01HL-15619-05 Regulation of prothrombin synthesis in cultured cells (rats)
R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
R01HL-20899-02 Cellular mechanisms of hemoglobin F regulation (human)
R01HL-20920-01 Control of hemoglobin synthesis (baboon)
R01HL-20922-02 Control of human fetal hemoglobin synthesis
R23HL-21428-02 Expression of human globin in thalassemia (human)
R01HL-22981-17 Membrane-associated functions in microorganisms (bacteria, protozoa)
R01HL-23736-04 Sickle cell anemia and hemoglobin synthesis (monkeys)

GENETICS, GENETIC REGULATION, GENETIC INDUCTION-REPRESSION-DEREPRESSION, TRANSLATION

R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
P50HL-15062-07 0009 Study of lipoproteins, artery wall, and atherosclerosis - Plasma lipoprotein biosynthesis (Rhesus monkeys)
** R01HL-15619-05 Regulation of prothrombin synthesis in cultured cells (rats)
** P60HL-16005-05 0013 Comprehensive sickle cell center - Study of regulation of erythropoiesis in vitro (human, rat, hamster, rabbit)
R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
R01HL-20920-01 Control of hemoglobin synthesis (baboon)
R01HL-20922-02 Control of human fetal hemoglobin synthesis
R01HL-22651-01 Control of protein metabolism in heart muscle
** R23HL-22839-01 Cellular translation of liposomally-delivered mRNA (human, mammals)
R01HL-22981-17 Membrane-associated functions in microorganisms (bacteria, protozoa)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-23736-04 Sickle cell anemia and hemoglobin synthesis (monkeys)
R01HL-24048-01 Regulation of hemoglobin synthesis in chick embryos

GENETICS, GENOTYPES

R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)
P01HL-06350-17 0015 Hemostasis research program project - Genetics (human)
R01HL-11901-12 0020 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass--Endogenous animal model of obesity (rats)
R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
** R01HL-13408-05 Environmental-genetic interactions in hypertension (rats)
P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
R01HL-14913-06 Hypertension--Genetic influence of kidney (rats)
R01HL-16166-05 Structure of alpha-1-antitrypsin in relation to emphysema (human)
R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)
** R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)
R01HL-20301-02 Genetics of glycosyltransferases in human blood
R01HL-20712-02 Characterization of the B proteins of serum lipoproteins (human)
N01HR-72921-01 Cystic fibrosis factor identification and quantification (human)
N01HR-72922-01 Cystic fribrosis factor identication and quantification (human)

GENETICS, GENOTYPES, HETEROZYGOTES

SEE ALSO GENETIC OISORDERS, AUTOSOMAL RECESSIVE CONOITIONS
** P50HL-19362-02 0005 A/S SCOR--Atherosclerosis in nonhuman primates - Hybridization to produce primate model of atherosclerosis (baboon, Rhesus)
R01HL-20912-02 Control on non-alpha chain synthesis in thassemic mice
N01HR-72920-01 Identify and quantify cystic fibrosis factors (human)

GENETICS, GENOTYPES, HOMOZYGOTES

P01HL-09011-15 0012 A research and resource program in blood - Theoretical population genetics (human)
R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
N01HR-72920-01 Identify and quantify cystic fibrosis factors (human)

GENETICS, KARYOTYPES

SEE ALSO GENETICS, POPULATION GENETICS HUMAN
P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique
P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics
P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
P01HL-21016-02 0012 Sickle cell anemia and other hemoglobinopathies - Stimulation of Hb F synthesis in a permanent cell line

GENETICS, MICROBIAL

SEE ALSO GENETICS, SOMATIC CELL ANO TRANSFORMATION
SEE ALSO GENETICS, SOMATIC CELL ANO TRANSFORMATION, TRANSOUCTION
SEE ALSO NUCLEIC ACIOS, RNA VIRAL
P01HL-06314-17 0057 Immunologic mechanisms in cardiovascular disease - Antigens in cardiovascular disease (human)
P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man
P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of arenavirus and Bunyamweraviruses

GENETICS, MUTAGENS

SEE ALSO ANTIMITOTIC AGENTS
SEE ALSO CONGENITAL ABNORMALITIES, TERATOGENIC AGENTS
SEE ALSO NEOPLASTIC TRANSFORMATION, CARCINOGENS (GENERAL)
** P01HL-03174-23 0010 Mechanisms of acute vascular reaction to injury - Search for mutagens in the human blood (bacteria, animals)
** P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury - Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)
R01HL-17921-04 Peroxy radicals to prostaglandins in vessels and lung

GENETICS, MUTATION

P01HL-03174-23 0010 Mechanisms of acute vascular reaction to injury - Search for mutagens in the human blood (bacteria, animals)
R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)
P01HL-18645-03 0003 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)
R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
R01HL-20912-02 Control on non-alpha chain synthesis in thassemic mice
P01HL-20948-02 0004 Molecular basis of cholesterol metabolism - Genetic analysis of the LOL pathway (human)
** P01HL-21016-02 0001 Sickle cell anemia and other hemoglobinopathies - Supramolecular models of Hb S--Mutational and EM approach
P01HL-21016-02 0003 Sickle cell anemia and other hemoglobinopathies - Role of non-S hemoglobin in gelation and sickling

GENETICS, MUTATION, CHROMOSOME MUTATION, DELETION

P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics
P60HL-20985-01 0005 Northern California sickle cell center - Molecular mechanism of alpha thalassemia--Relation to sickle cell anemia (human)

GENETICS, MUTATION, GENE MUTATION, FRAMESHIFT

R01HL-18553-03 Membrane defects in familial hypercholesteremia (human)

GENETICS, MUTATION, GENE MUTATION, POINT MUTATION

R01HL-18553-03 Membrane defects in familial hypercholesteremia (human)

GENETICS, MUTATION, GENOME MUTATION, TRISOMY

R01HL-20899-02 Cellular mechanisms of hemoglobin F regulation (human)

GENETICS, MUTATION, MUTANTS*

SEE ALSO BIOLOGY, SYSTEMATIC, GENETIC STRAINS
R01HL-16927-05 Structure and function of normal and abnormal hemoglobin (human)
R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
** P01HL-21016-02 0014 Sickle cell anemia and other hemoglobinopathies - Human hemoglobin mutants with abnormal oxygen binding
P01HL-21016-02 0017 Sickle cell anemia and other hemoglobinopathies - The hereditary clinic core
R01HL-22174-01 Assembly of membranes in heart and yeast mitochondria
R01HL-22550-02 Genetic cardiomyopathies in salamanders and hamsters

GENETICS, MUTATION, MUTANTS, TEMPERATURE SENSITIVE MUTANTS*

R01HL-23588-01 NOV infection--Analysis at the subcellular level (chickens)

GENETICS, PHARMACOGENETICS*

** R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)

GENETICS, POPULATION GENETICS, INBREEDING

SEE ALSO GENETICS, GENOTYPES, HOMOZYGOTES
** R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)

GENETICS, POPULATION GENETICS ANIMAL

R01HL-01648-31 Blood coagulation and hemophilia (dogs, swine)
P01HL-06835-17 0017 Cardiovascular disease - Studies on obese hypertensive rats
R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)
P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)

GENETICS, POPULATION GENETICS HUMAN

SEE ALSO GENETIC OISORDERS, GENETIC COUNSELING
SEE ALSO GENETICS, KARYOTYPES
R01HL-03429-18 Central nervous system and coronary heart disease (human)
P01HL-06314-17 0057 Immunologic mechanisms in cardiovascular disease - Antigens in cardiovascular disease (human)
P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man
** P01HL-06350-17 0015 Hemostasis research program project - Genetics (human)
M P01HL-09011-15 A research and resource program in blood
P01HL-09011-15 0001 A research and resource program in blood - Genetic markers of human blood and gene mapping (human)
** P01HL-09011-15 0012 A research and resource program in blood - Theoretical population genetics (human)
P01HL-09011-15 0018 A research and resource program in blood - Hepatitis B in normal populations--Epidemiology, risk factors and transmission
R01HL-12833-09 Genetic and environmental influences on lung disease (human)
P01HL-13108-09 0002 Clinical heart transplantation - Preoperative immunologic studies of cardiac recipients
P01HL-13108-09 0009 Clinical heart transplantation - B cell alloantigens in cardiac allograft compatibility (human)
** P50HL-14141-05 0001 SCOR for atherosclerosis in childhood - Clinical implications (infants and children)
P50HL-14153-07 0001 Johns Hopkins Lung Center--Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)
** P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
P50HL-14230-07 0088 A/S SCOR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
P50HL-14236-05 0001 Prevention of premature arteriosclerosis - Metabolism and transport of cholesterol and vitamin A (human, rats)
P50HL-14237-07 0005 Support for arteriosclerosis center - Genetic determinants of apolipoprotein variability in lipoproteins (human)
R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
P01HL-14985-07 0008 Adaptation to hypoxia - Ventilatory drive and exercise capacity (human, dogs)
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
P60HL-15158-07 0016 Comprehensive sickle cell center - Biochemical studies in sickle cell anemia (human)
P60HL-15162-07 0007 Comprehensive sickle cell center - Core program--Oemographic studies (human)
R01HL-15308-07 Assays for peptides of lipoproteins (human)
** R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)
** P60HL-16008-06 0016 Wayne State University comprehensive sickle cell center - Red blood cell glycolysis in sickle cell patients
P60HL-16008-06 0020 Wayne State University comprehensive sickle cell center - Genetic and physiological studies of sickle cell anemia (human)
R01HL-16166-05 Structure of alpha-1-antitrypsin in relation to emphysema (human)
P01HL-16769-05 0007 Pathobiologic and host defense reactions in the lung - Immunogenetic factors in sarcoidosis (human)
** R01HL-16774-04 Genetic epidemiology of hyperlipemia (Honolulu)
P60HL-17265-04 0008 Community blood resource center support - Research--Blood genetic markers as biological probes (human)
R01HL-18687-03 Pathophysiology of genetic hypertriglycerinemias (human)
** R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)
R01HL-19567-03 Impact of emotion on coronary arteries (human)
R01HL-19858-03 UMMC--Blood pressure precursors and consequences (human)
R01HL-19859-03 Epidemiological studies, precursors of hypertension (human)
R01HL-19864-03 0003 Blood pressure of children and young adults - Heart rate and blood pressure--Consistency in infancy (human)
R01HL-19870-03 Hypertensive progeny--Physical and humoral precursor search
R01HL-19962-03 High blood pressure in young people in Tecumseh
** R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
R01HL-20005-03 Factors in blood pressure levels of children
R01HL-20034-03 Hypertension--Psychophysiologic and genetic precursors (human)
R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)
R01HL-20391-03 Polydisperse LOL--Structure, metabolism and function (human)
R01HL-20655-02 Autonomic predictors of hypertension in children
R01HL-20807-02 Oetection of familial hypercholesterolemia (human)
R01HL-20905-02 Synthesis of fetal hemoglobin in erythroid cells (sheep, human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-20961-02 Hamoglobin Y-chain ganes--Evolution and inducibility (monkaysb human)
** R01HL-21088-02 Genetic patterns in deaths from MI and stioke in Utah
** R01HL-22298-02 Origins ot hypartansion (human)
R01HL-22607-01 Rola of apolipoprotein E in lipoprotein metabolism (human)
R01HL-23194-02 Ganatics of hypertansion and associatad variablas (human)
R01HL-23631-01 Immunoganatic tactors in allergic respiratory disaases (human)
N01HR-62935-02 Histocompatibility antigans--Evolution of respiratory hyparsansitivity (human)
N01HR-72920-01 Identify and quantify cystic fibrosis tactors (human)
N01HV-12156-10 Lipid research clinic
N01HV-12157-14 Lipid rasearch clinic (human)
N01HV-12158-10 Establishment of a lipid rasearch clinic
N01HV-22914-08 Establishmant of a lipid research clinic

GENETICS, RECOMBINATION
R01HL-04442-20 Mitochondrial assambly and replication (fungi, whaat)
P01HL-09011-15 0012 A research and rasourca program in blood - Theoretical population genatics (human)

GENETICS, SOMATIC CELL AND TRANSFORMATION
SEE ALSO BIOLOGY, POLYMORPHISM
SEE ALSO CELL OEOIFFERENTIATION
SEE ALSO GROWTH ABNORMAL, METAPLASIA
SEE ALSO TISSUE MOSAICISM
SEE ALSO VIRUS CHARACTERISTICS, TRANSFORMING VIRUSES
P01HL-03174-23 0010 Machanisms of acute vascular reaction to injury - Search for mutagans in tha human blood (bacteria, animals)
** P01HL-20948-02 0004 Molacular basis of cholastarol metabolism - Genetic analysis of the LOL pathway (human)
R23HL-22839-01 Cellular translation of liposomally-daliverad mRNA (human, mammals)

GENETICS, SOMATIC CELL AND TRANSFORMATION, TRANSDUCTION
** R01HL-19995-02 Sensory transduction in cardiac mechanoreceptors (cats, frogs, rats)

GENETICS-ASSOCIATED HYPERTENSION
SEE CAROIOVASCULAR OISOROERS, HYPERTENSION (SYSTEMIC), GENETICS-ASSOCIATEO

GENETICS OF CANCER (NEOPLASMS)
SEE NEOPLASMS GENETICS

GENETICS STUDY SECTION
** R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)
** R01HL-17465-04 Beta-thalassemia screening and ganatic counseling
** R01HL-17710-04 Selectiva replication of hemoglobin ganes (mice, ducks, human)
** R01HL-18723-03 Ganetic heteroganeity of acid lipase--Atherosclerosis (human)
** R01HL-18876-03 Human alpha-1-antitrypsin synthesis in vitro
** R01HL-20301-02 Genetics of glycosyltransferasas in human blood
** R01HL-20961-02 Hemoglobin Y-chain ganas--Evolution and inducibility (monkeys, human)

GENOME
SEE GENETICS, CHROMOSOME COMPLEMENT, GENOME

GENOTYPES
SEE GENETICS, GENOTYPES

GENTAMICIN
SEE ANTIBIOTICS, GENTAMICIN

GEOGRAPHICAL SITES, AFRICA
** P01HL-08974-14 0028 Natural and experimental atherosclarosis - Geographic pathology of atharosclerosis and coronary haart disease (human)

GEOGRAPHICAL SITES, N. AMERICA, CANADA
N01HV-42911-07 ECG center for prevention of coronary haart diseasa (human)

GEOGRAPHICAL SITES, S. AMERICA
** P01HL-08974-14 0028 Natural and experimantal atherosclerosis - Geographic pathology of atharosclerosis and coronary heart disaase (human)
R01HL-15614-04 Heradity and oxygan--Effacts on health of heart-lungs (South Amarica)

GEOGRAPHICAL SITES, S. AMERICA, BRAZIL
R01HL-16774-04 Ganetic epidamiology of hyparlipemia (Honolulu)

GEOGRAPHICAL SITES, S. AMERICA, CHILE
R01HL-15614-04 Haredity and oxygen--Effects on health of heart-lungs (South America)

GEOGRAPHICAL SITES, S. AMERICA, PERU
R01HL-15614-04 Haredity and oxygen--Effects on health of heart-lungs (South America)

GEOGRAPHICAL SITES, EUROPE, SCANDINAVIAN COUNTRIES
R01HL-04697-17 International heart disease epidemiology (human)

GEOGRAPHICAL SITES, UNITED STATES
R01HL-03341-22 Epidemiology ol atharosclerosis in Evans Co Georgia
** P01HL-08974-14 0028 Natural and experimantal atharosclarosis - Geographic pathology of atherosclerosis and coronary haart disaasa (human)

GEOGRAPHICAL SITES, UNITED STATES, PUERTO RICO
N01HV-42902-08 Epidemiological studies ot coronary haart disaasa (human)

GEO-ORIENTATION
SEE ENVIRONMENT, ORIENTATION

GERIATRICS
SEE AGING

GERMICIDES, THERAPEUTIC
SEE COMMUNICABLE OISEASE CONTROL AGENTS

GESTATIONAL AGE (INTERIOR GESTATION)
SEE PREGNANCY, EMBRYO-FETUS, GESTATIONAL AGE

GESTATIONAL DIABETES
SEE CARBOHYORATES METABOLISM OISOROERS, OIABETES IN PREGNANCY

GHETTO AREAS
SEE SOCIOENVIRONMENT, URBAN POVERTY AREAS

GHOST ERYTHROCYTE
SEE MEMBRANE, ERYTHROCYTE GHOST ANO MEMBRANE

GILLS
SEE RESPIRATORY SYSTEM, GILLS

GINGIVA
SEE OENTAL STRUCTURE, GINGIVA

GLANDS
SEE ENOOCRINOLOGY, ENOOCRINES
SEE ORAL-PHARYNGEAL, SALIVARY GLANOS
SEE REPROOUCTIVE SYSTEM FEMALE, MAMMARY GLANOS

GLASS
SEE SILICATES, GLASS

GLASS ACTIVATION FACTOR (FACTOR XII)
SEE BLOOO COAGULATION, HAGEMAN FACTOR

GLAUCOMA
SEE EYE OISOROERS, GLAUCOMA

GLOBINS
SEE ALSO HEMOPROTEINS, HAPTOGLOBINS
SEE ALSO HEMOPROTEINS, HEMOGLOBIN
SEE ALSO HEMOPROTEINS, MYOGLOBIN
SEE ALSO PORPHYROPROTEINS, COBOGLOBINS
P60HL-16005-05 0013 Comprahansive sickle cell center - Study of ragulation of arythropoiesis in vitro (human, rat, hamster, rabbit)
R01HL-20899-02 Cellular machanisms of hemoglobin F regulation (human)
R01HL-20905-02 Synthasis of fetal hemoglobin in erythroid calls (sheep, human)
R01HL-20922-02 Control of human fetal hemoglobin synthasis
R01HL-24048-01 Regulation of hemoglobin synthesis in chick embryos

GLOBULIN SUBSTANCE
SEE BLOOO COAGULATION, FACTOR VIII

GLOBULINS
SEE ALSO PLANTS PROTEINS, LECTINS, CONCANAVALIN A
R01HL-08696-15 0012 Orthotopic heart transplantation - Transplantation immunology--Modulation of donor antiganicity (dogs)
R01HL-15646-03 Lipid studias in vascular smooth muscle calls (human, monkeys)
R01HL-18762-03 Post-traumatic pulmonary insufficiency (dogs)
R01HL-19419-03 Cellular interactions with foreign matarials (mammals)
R01HL-21452-02 Pulmonary capillary filtration in myocardial ishemia (dogs)

GLOBULINS, ALPHA GLOBULINS
SEE ALSO HEMOPROTEINS, HAPTOGLOBINS
SEE ALSO IMMUNOLOGY, IMMUNOREGULATORY ALPHA GLOBULIN
SEE ALSO METALLOPROTEINS, CERULOPLASMIN
P01HL-03174-23 0002 Mechanisms of acute vascular reaction to injury - Chamical structure, pathological significance of amyloid substanca (human, mica)

GLOBULINS, BETA GLOBULINS
SEE ALSO GLOBULINS, MACROGLOBULINS
SEE ALSO METALLOPROTEINS, TRANSFERRIN
R01HL-19539-03 Pathology ot hypertensive-associated arteritis (rabbits)
P50HL-21006-02 0006 Specialized canter ot research in arteriosclerosis Intravascular coagulation and thrombosis in hyperlipidemia (human)

GLOBULINS, GAMMA GLOBULINS
SEE ALSO GLOBULINS, MACROGLOBULINS
P01HL-11310-12 0095 Mechanisms ol cardiovascular disaasa Blood and translusion disorders (human, rats, monkeys)
P01HL-15596-05 0007 Coagulation, fibrinolysis, hemostasis and hepatitis Structural studies and tractionation ot urokinasa (human)
R01HL-19651-03 Host factors in pathogenesis ot raspiratory diseasa (human, hamsters)
R01HL-20856-02 Platalat transtusions--Usaga and complications (human)
P01HL-22163-01 0001 Surface thrombogenasis--Mechanisms and prevantion Initial blood protein and platalet intaractions with biomaterials (baboons)

GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN(S)
SEE ALSO GLOBULINS, AMYLOIO SUBSTANCE
SEE ALSO GLOBULINS, SERUM GLOBULINS
SEE ALSO IMMUNOLOGY, ANTIBOOIES
M P01HL-06314-17 Immunologic machanisms in cardiovascular disaase
P01HL-06314-17 0048 Immunologic machanisms in cardiovascular disaasa - Pathoganasis of glomerulonaphritis (rats, mice)
P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changas in lymphocytas (human, mica)
P01HL-06314-17 0061 Immunologic machanisms in cardiovascular disaasa - Role ot viruses in cardiovascular and renal diseasa (human, mica)
** P01HL-06370-17 0018 Cardiopulmonary and ranal pathology rasaarch cantar - Cytochemistry and immunology of lymphoprolifarativa disorders (human)
R01HL-07652-14 Oestruction of rad blood calls in hamolytic anemias (human, guinea pigs)
P01HL-07896-15 0021 Environmental biomedical rasaarch program - Liquid braathing and lung lavage (human)
P01HL-08805-15 0049 Ragulation of ventilation and pulmonary circulation - Pulmonary hypartension producad by Oirofilaria immitis in the dog
P01HL-09011-15 0001 A research and resource program in blood - Genetic markars of human blood and gene mapping (human)
P01HL-09011-15 0013 A resaarch and resource program in blood - A quantitative study of immunological enhancament (mice)
R01HL-09163-13 Control mechanisms in hemostasis (human)
R01HL-10608-12 Oigoxin-specific antibodias (human)
P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complemant chemistry and biology (human, rabbits)
R01HL-12994-09 The Rh complex of red cells (human)
P01HL-13108-09 0003 Clinical haart transplantation - Endomyocardial biopsy pathology
** P01HL-13108-09 0013 Clinical heart transplantation - Cardiomyopathic lymphocyta responsivenass to cultured endothalium
P01HL-13262-07 0011 Arterial wall in atherosclarosis - Role of hypartension in atharosclerosis (human, monkey, dog)
R01HL-14799-07 Cardiac hetarotransplantation--Immunologic modification (mice, rat)
R01HL-15124-05 Genasis of hypartansion in renal disease (human, dogs)
P01HL-16137-05 0013 Alveolar biology - Davelopmant and pathology of surfactant--Formation of alveolar (rabbits, sheep)
P01HL-16411-04 0003 Blood systems in coagulation and vessal diseasa - Molacular events involving the late stages of coagulation (rabbits)
P01HL-16748-05 0006 Cellular and immunological basis of pulmonary diseasas - Sarcoidosis--Studias with bronchial lavage (human)
P01HL-16769-05 0003 Pathobiologic and host defensa reactions in the lung - Pathobiologic mechanisms of delayed sensitivity raactions in the lung (animals)
** P01HL-16769-05 0011 Pathobiologic and host dafensa reactions in the lung - Core--Laboratory for biomadical preparation (rabbits)
P60HL-17269-04 0033 National haart and blood vassel research and demonstration canter - Autoallargic rasponse in cardiomyopathy, atherosclerosis, rheumatic heart disease
R01HL-17404-05 Immunologic machanisms in heart disease (mice)
R01HL-17623-05 Initial avents in thrombus formation on surfaces (human, rats)
R01HL-17710-04 Selactiva raplication of hemoglobin ganes (mica, ducks, human)
P01HL-18646-03 0003 Studies basic to haart transplantation - Host responsas to xenografts (rodants, rabbits)
P01HL-18646-03 0004 Studias basic to haart transplantation - Prasansitization--Oatection, incidance and clinical significanca

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number

P01HL-18646-03 0006 Studies basic to heart transplantation - Reduction or elimination of existing presensitization (humane animals)
P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
R01HL-18997-02 Ischemic therapy in experimental hypersplenism (rats, dogs)
R01HL-19018-03 Etiologic factors in cryptogenic fibrosing alveolitis (human)
P01HL-19259-03 0002 Digoxin-specific antibody in human therapy - Chemical semi-synthesis of digoxin-specific antibody (rabbits)
R01HL-19307-03 Problems in prevention of rheumatic heart disease (human)
** R01HL-19456-03 Immunoglobulins associated with serum hyperviscosity (human)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
R01HL-19873-03 Pulmonary responses to inhaled antigen (rabbits, guinea pigs)
R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
R01HL-20394-03 Complement activation by heart subcellular membranes (human, dog)
R01HL-20875-02 Chronic obstructive pulmonary disease–Familial/genetic (human)
R01HL-21829-01 Etiology of obstructive airway disease in children (also monkeys)
R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)
R23HL-22823-01 Phagocytic and immune defense mechanisms of the lung (mice)
R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)
R01HL-22924-01 The airway mucosal barrier (guinea pigs)
R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)

GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN A

SEE ALSO IMMUNOLOGY, SECRETORY (ANTIBODY) (FACTOR) SYSTEM
P50HL-14218-07 0005 Pulmonary SCOR–Newborn lung center - Prevention of infection in infants with respiratory distress (human)
P50HL-15061-07 0007 Response of lung to injury - Human factors for phagocytosis in normal and diseased lungs
P50HL-15061-07 0009 Response of lung to injury - Alveolar macrophages (human, rabbits)
P50HL-15389-07 0010 Pulmonary SCOR–Hypersensitivity pneumonitis - Clinical study–Pulmonary lesions due to non-invasive aspergillosis
P01HL-16137-05 0001 Alveolar biology - Chemical characterization of surfactant system–Lipid and lipid protein fractions
P01HL-16769-05 0010 Pathobiologic and host defense reactions in the lung - Bronchus associated lymphoid tissue and delayed hypersensitivity (rabbits)
P01HL-16769-05 0011 Pathobiologic and host defense reactions in the lung - Core--Laboratory for biomedical preparation (rabbits)
R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)

GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN E

** R01HL-01803-23 0021 Arteriosclerosis, glomerulonephritis, rheumatic fever - Induction of IgE antibodies to antigen from tobacco and cigarette smoke (rabbits)
P50HL-14136-07 0003 Pulmonary SCOR–Airways obstructive diseases - Acute pediatric respiratory disease and COLO
P50HL-14136-07 0017 Pulmonary SCOR–Airways obstructive diseases - Pediatric airways obstructive disease (human)
P50HL-14153-07 0014 Johns Hopkins Lung Center–Chronic diseases of airways - Mediator release in asthma (human)
P50HL-14153-07 0015 Johns Hopkins Lung Center–Chronic diseases of airways - Kinins and human lung
P50HL-15092-07 0011 Immune and fibrotic response to occupational environments - Respiratory and immunologic responses in coffee plant workers
P50HL-15092-07 0012 Immune and fibrotic response to occupational environments - Longitudinal evaluation of workers exposed to cotton dust
P50HL-15389-07 0001 Pulmonary SCOR–Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
P50HL-15389-07 0010 Pulmonary SCOR–Hypersensitivity pneumonitis - Clinical study–Pulmonary lesions due to non-invasive aspergillosis
P50HL-15389-07 0011 Pulmonary SCOR–Hypersensitivity pneumonitis - Animal model–Hypersensitivity pneumonitis in rabbits
P50HL-15389-07 0012 Pulmonary SCOR–Hypersensitivity pneumonitis - Animal model–Immunologic lung disease in guinea pigs
P50HL-15389-07 0017 Pulmonary SCOR–Hypersensitivity pneumonitis - Immunology core (human)
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
P50HL-19155-02 0004 Pathophysiology of pulmonary edema - Physical and chemical effects of multiple pulmonary emboli (sheep)
P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
P50HL-19157-02 0008 Studies in cystic fibrosis and bronchiolitis - Serum proteins in cystic fibrosis (human)
** P50HL-19157-02 0011 Studies in cystic fibrosis and bronchiolitis - Pathogenesis of bronchiolitis (children)
P50HL-19171-02 0012 Pulmonary SCOR--Lung injury by childhood infections - Laboratory support core
R01HL-19741-03 Murine CRD--A model of chronic pulmonary inflammation (mice, rats)
R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
R23HL-21089-02 Localization of mediators in dispersed lung cells (guinea pigs, human)
R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
** R01HL-22582-01 Pulmonary and circulatory alterations induced by IGE

GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN G

R01HL-08399-15 Platelet injury in infections and allergic diseases (human)
R01HL-12994-09 The Rh complex of red cells (human)
P50HL-14218-07 0005 Pulmonary SCOR–Newborn lung center - Prevention of infection in infants with respiratory distress (human)
P50HL-14230-07 0096 A/S SCOR--Lipids, atherosclerosis and thrombosis - Ultrastructural studies of endothelial cells (human)
P50HL-15061-07 0007 Response of lung to injury - Human factors for phagocytosis in normal and diseased lungs
P50HL-15061-07 0009 Response of lung to injury - Alveolar macrophages (human, rabbits)
P50HL-15389-07 0001 Pulmonary SCOR–Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
P50HL-15389-07 0010 Pulmonary SCOR–Hypersensitivity pneumonitis - Clinical study–Pulmonary lesions due to non-invasive aspergillosis
R01HL-16601-05 Structure and function of blood proteins (human, cattle)
R01HL-16646-05 Pathobiology of thromboembolic disorders (human)
R01HL-16757-04 'Autoimmune' thrombocytopenia (monkey)
P50HL-19157-02 0011 Studies in cystic fibrosis and bronchiolitis - Pathogenesis of bronchiolitis (children)
R01HL-19721-03 Lung inflammation–Lysosomal proteases and liposomes (human, rabbits)
R01HL-20635-03 Factors in lung development (rat and chick embryo)
P60HL-20985-01 0007 Northern California sickle cell center - Immunohematologic abnormalities in sickle cell anemia (human)
R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)
** R01HL-22302-01 Immune responses in the human lung (also rabbits, monkeys)
R01HL-22671-01 Removal of senescent and stored human red cells
N01HV-32917-08 Materials development and testing

GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN M

P50HL-14218-07 0005 Pulmonary SCOR--Newborn lung center - Prevention of infection in infants with respiratory distress (human)
P50HL-15389-07 0010 Pulmonary SCOR–Hypersensitivity pneumonitis - Clinical study–Pulmonary lesions due to non-invasive aspergillosis
P01HL-16769-05 0011 Pathobiologic and host defense reactions in the lung - Core–Laboratory for biomedical preparation (rabbits)
R01HL-18535-03 Epidemiology and course of viral myopericarditis (human)
P50HL-19157-02 0011 Studies in cystic fibrosis and bronchiolitis - Pathogenesis of bronchiolitis (children)

GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN STRUCTURE

P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Dirofilaria immitis in the dog
P50HL-15061-07 0007 Response of lung to injury - Human factors for phagocytosis in normal and diseased lungs
R01HL-16626-05 Studies of antibodies to antihemophilic factors (human, rabbits)
P01HL-19259-03 0002 Digoxin-specific antibody in human therapy - Chemical semi-synthesis of digoxin-specific antibody (rabbits)
** R01HL-19456-03 Immunoglobulins associated with serum hyperviscosity (human)

GLOBULINS, AMYLOID SUBSTANCE

** P01HL-03174-23 0002 Mechanisms of acute vascular reaction to injury - Chemical structure, pathological significance of amyloid substance (human, mice)
P01HL-03174-23 0006 Mechanisms of acute vascular reaction to injury - Atherosclerotic plaque studies using mosaic analysis (human)

GLOBULINS, CORTICOSTEROID BINDING GLOBULIN

SEE ALSO ADRENAL CORTEX HORMONES
R01HL-21112-02 Aldosterone binding, clearance, and secretion in man

GLOBULINS, CRYOGLOBULINS

P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changes in lymphocytes (human, mice)
R01HL-19456-03 Immunoglobulins associated with serum hyperviscosity (human)

GLOBULINS, MACROGLOBULINS

SEE ALSO GLOBULINS, BETA GLOBULINS
SEE ALSO GLOBULINS, GAMMA GLOBULINS
R01HL-04366-19 Plasminogen–Activation and structure-function relations (mammals, birds)
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
P01HL-20994-02 0005 Dynamics of neutrophil elastase in the lung - Protease inhibitors in pulmonary inflammation and emphysema (rabbits)
R01HL-21120-02 Membrane dynamics in alveolar macrophages (rabbits)
R01HL-21644-01 Fibronectin and related glycoproteins (human, rodents)

GLOBULINS, MYELOMA GLOBULINS, BENCE-JONES PROTEINS

R01HL-16603-05 Human and experimental renal diseases (animals)

GLOBULINS, SERUM GLOBULINS

SEE ALSO GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN(S)
SEE ALSO IMMUNOLOGY, ANTIBODIES, IMMUNE SERA
P01HL-15832-06 0008 Chemical-structural predispositions to lung injury - Interstitial fibrosis--Connective tissue components in normal and diseased lungs

GLOMERULAR FILTRATION

SEE KIDNEY FUNCTION, GLOMERULAR FILTRATION

GLOMERULONEPHRITIS

SEE KIDNEY DISORDERS, GLOMERULONEPHRITIS

GLOMERULOSCLEROSIS

SEE KIDNEY DISORDERS, NEPHROSCLEROSIS

GLOMERULUS

SEE KIDNEY, GLOMERULUS

GLOMUS AORTICUM

SEE NERVOUS SYSTEM, PARAGANGLIA, AORTIC BODY

GLOMUS CAROTICUM

SEE NERVOUS SYSTEM, PARAGANGLIA, CAROTID BODY

GLUCAGON

SEE PANCREAS HORMONES, GLUCAGON

1,4-ALPHA-D-GLUCAN:ORTHOPHOSPHATE ALPHA-GLUCOSYLTRANSFERASE

SEE GLYCOSYLTRANSFERASES, 1,4-ALPHA-D-GLUCAN:ORTHOPHOSPHATE ALPHA-GLUCOSYLTRANSFERASE

GLUCOCORTICOIDS

SEE ADRENAL CORTEX HORMONES, GLUCOCORTICOIDS

GLUCOGENESIS

SEE HEXOSES, GLUCOGENESIS

GLUCONEOGENESIS

SEE HEXOSES, GLUCONEOGENESIS

ALPHA-D-GLUCOPYRANOSYL-BETA-D-FRUCTOFURANOSIDE

SEE DISACCHARIDES, SUCROSE

GLUCOSAMINE

SEE HEXOSES, GLUCOSAMINE

GLUCOSAMINOGLYCANS

SEE POLYSACCHARIDES, GLYCOSAMINOGLYCANS

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

GLUCOSE
SEE HEXOSES, GLUCOSE

GLUCOSE, BLOOD
SEE CARBOHYDRATE BALANCE, BLOOD SUGAR

D-GLUCOSE
SEE HEXOSES, GLUCOSE

GLUCOSE BIOSYNTHESIS
SEE HEXOSES, GLUCOGENESIS

GLUCOSE BIOSYNTHESIS FROM NON-CARBOHDRATE SOURCES
SEE HEXOSES, GLUCONEOGENESIS

GLUCOSE METABOLISM
SEE CARBOHYDRATES METABOLISM, GLUCOSE METABOLISM

GLUCOSE OXIDASE
SEE OXIDOREDUCTASES, GLUCOSE OXIDASE

GLUCOSE PERMEASES
SEE BIOLOGICAL TRANSPORT, TRANSPORT PROTEINS, PERMEASES, GLUCOSE PERMEASES

GLUCOSE-6-PHOSPHATASE DEFICIENCY
SEE METABOLIC DISORDERS INBORN, GLYCOGENOSIS

GLUCOSE-6-PHOSPHATASES
SEE PHOSPHOMONOESTERASES, GLUCOSE-6-PHOSPHATASES

GLUCOSE-6-PHOSPHATE DEHYDROGENASE
SEE OXIDOREDUCTASES, GLUCOSE-6-PHOSPHATE DEHYDROGENASE

GLUCOSE-6-PHOSPHATE DEHYDROGENASE DEFICIENCY
SEE METABOLIC DISORDERS INBORN, GLUCOSE-6-PHOSPHATE DEHYDROGENASE DEFICIENCY

GLUCOSE-6-PHOSPHATES
SEE HEXOSES, GLUCOSE-6-PHOSPHATES

GLUCOSE TOLERANCE
SEE CARBOHYDRATE BALANCE, GLUCOSE TOLERANCE

GLUCOSE TRANSPORT
SEE CARBOHYDRATES TRANSPORT, GLUCOSE TRANSPORT

ALPHA-GLUCOSIDASE
SEE CARBOHYDRASES, ALPHA-GLUCOSIDASE

GLUCURONIC ACID
SEE SUGAR ACIDS, HEXURONIC ACIDS, GLUCURONIC ACID

BETA-GLUCURONIDASE
SEE CARBOHYDRASES, BETA-GLUCURONIDASE

GLUTAMATE-ALANINE TRANSAMINASE
SEE AMINOTRANSFERASES, ALANINE TRANSAMINASE

L-GLUTAMATE:AMMONIA LIGASE (ADP)
SEE ACID-AMMONIA LIGASES, L-GLUTAMATE:AMMONIA LIGASE (ADP)

GLUTAMATE-ASPARTATE TRANSAMINASE
SEE AMINOTRANSFERASES, ASPARTATE TRANSAMINASE

GLUTAMATES
SEE DICARBOXYLIC AMINO ACIDS, GLUTAMATES

GLUTAMIC-OXALACETIC TRANSAMINASE
SEE AMINOTRANSFERASES, ASPARTATE TRANSAMINASE

GLUTAMIC-PYRUVIC TRANSAMINASE
SEE AMINOTRANSFERASES, ALANINE TRANSAMINASE

GLUTAMINE
SEE DICARBOXYLIC AMINO ACIDS, GLUTAMINE

GLUTAMINE SYNTHETASE
SEE ACID-AMMONIA LIGASES, L-GLUTAMATE:AMMONIA LIGASE (ADP)

GLUTAMYL CYCLOTRANSFERASE
SEE PROTEASES AND PEPTIDASES, GLUTAMYL CYCLOTRANSFERASE

GLUTAMYL PEPTIDES
SEE PEPTIDES, HOMOPEPTIDES, GLUTAMYL

GLUTAMYL TRANSPEPTIDASE
SEE PROTEASES AND PEPTIDASES, GLUTAMYL TRANSPEPTIDASE

GLUTATHIONE
SEE PEPTIDES, GLUTATHIONE

GLUTATHIONE PEROXIDASE
SEE PEROXIDASES, GLUTATHIONE PEROXIDASE

GLUTATHIONE REDUCTASE
SEE OXIDOREDUCTASES, GLUTATHIONE REDUCTASE

GLYCERALDEHYDE
SEE TRIOSES, GLYCERALDEHYDE

GLYCERALDEHYDE PHOSPHATE DEHYDROGENASE
SEE OXIDOREDUCTASES, GLYCERALDEHYDE PHOSPHATE DEHYDROGENASE

GLYCERIC ACID DIPHOSPHATES
SEE TRIOSE ACIDS, GLYCERIC ACID DIPHOSPHATES

GLYCERIDES
SEE LIPIDS, GLYCERIDES

GLYCERIN
SEE TRIOSE ALCOHOLS, GLYCERIN

GLYCEROL
SEE TRIOSE ALCOHOLS, GLYCERIN

GLYCEROL ESTERS
SEE LIPIDS, GLYCERIDES

GLYCEROL ETHERS
SEE LIPIDS, GLYCERYL ETHERS

GLYCEROPHOSPHATE DEHYDROGENASE
SEE OXIDOREDUCTASES, GLYCEROPHOSPHATE DEHYDROGENASE

GLYCEROPHOSPHATES
SEE TRIOSE ALCOHOLS, GLYCEROPHOSPHATES

GLYCERYL ETHERS
SEE LIPIDS, GLYCERYL ETHERS

GLYCERYL PHOSPHATES
SEE TRIOSE ALCOHOLS, GLYCEROPHOSPHATES

GLYCERYLPHOSPHORYLCHOLINE
SEE PHOSPHOLIPIDS, GLYCEROPHOSPHORIC ESTERS, GLYCEROPHOSPHORYLCHOLINE

GLYCINE
SEE AMINO ACIDS, GLYCINE

GLYCOGEN
SEE HEXOSANS, GLUCANS, GLYCOGEN

GLYCOGEN CATABOLISM
SEE HEXOSANS, GLUCANS, GLYCOGENOLYSIS

GLYCOGEN STORAGE DISEASE
SEE METABOLIC DISORDERS INBORN, GLYCOGENOSIS

GLYCOGEN (STARCH) SYNTHASE
SEE GLYCOSYLTRANSFERASES, UDP GLUCOSE:ALPHA-1,4-GLUCAN ALPHA-4-GLUCOSYLTRANSFERASE

GLYCOGENESIS
SEE CARBOHYDRATES BIOSYNTHESIS

GLYCOGENOLYSIS
SEE HEXOSANS, GLUCANS, GLYCOGENOLYSIS

GLYCOGENOSIS
SEE METABOLIC DISORDERS INBORN, GLYCOGENOSIS

GLYCOGENOSIS TYPE III
SEE METABOLIC DISORDERS INBORN, GLYCOGENOSIS, TYPE III

GLYCOLATES
SEE FATTY ACIDS, GLYCOLATES

GLYCOLIPIDS
SEE ALSO GLYCOSPHINGOLIPIDS
SEE ALSO PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PHOSPHOINOSITIDES
N01HI-32926-10 Analysis of lipoproteins (animals)
R01HL-05351-18 Blood group antigens and antibodies (human, rabbits, sheep)
RD1HL-17783-04 Complex carbohydrates--Structure, function, synthesis (swine)
RD1HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
R01HL-18249-04 Isolation and identification of platelet membrane (human)
RD1HL-20924-02 Atherosclerosis and arterial cell functions (human, rabbits)
PD1HL-22633-01 D0D3 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)

GLYCOLS
SEE ALCOHOLS, DIOLS

GLYCOLYSIS
SEE HEXOSES, GLYCOLYSIS

GLYCOLYSIS ANAEROBIC
SEE HEXOSES, GLYCOLYSIS ANAEROBIC

GLYCONEOGENESIS
SEE CARBOHYDRATES BIOSYNTHESIS, GLYCONEOGENESIS

GLYCOPEPTIDES
SEE ALSO GLYCOPROTEINS
RD1HL-14844-D6 Mucous glycoprotein in human respiratory epithelium (also wheat)
RD1HL-19D84-D3 Structure and function of serum lipoproteins (human)
R01HL-21612-02 Biochemistry of lung proteoglycans (human, rabbits)
RD1HL-22583-D2 Ultrastructural study of endothelium in thrombosis (human)
RD1HL-22967-01 Structure and function of heparin releasable lipases (swine, human)

GLYCOPROTEINS
SEE ALSO CARBOHYDRATES, PROTEIN BOUND CARBOHYDRATES
SEE ALSO GLYCOPEPTIDES
SEE ALSO PROTEOGLYCANS
R01HL-D1803-23 DDD1 Arteriosclerosis, glomerulonephritis, rheumatic fever - Post streptococcal glomerulonephritis (rabbit)
R01HL-01803-23 0D11 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
** R01HL-01803-23 0D22 Arteriosclerosis, glomerulonephritis, rheumatic fever - Cardiac and pulmonary anaphylaxis induced by tobacco glycoprotein (rabbits)
R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
RD1HL-05351-18 Blood group antigens and antibodies (human, rabbits, sheep)
PD1HL-D6314-17 D064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
P01HL-09D11-15 00D5 A research and resource program in blood - Characterization of hepatitis-B antigen and the cause of serum hepatitis (human)
R01HL-09739-13 Biophysical studies of proteins (human)
R01HL-10316-13 Structural studies on low density serum lipoproteins (human)
P01HL-11310-12 0097 Mechanisms of cardiovascular disease - Structural-functional relationships of neuronal differential alloantigens (mice)
** P01HL-11310-12 0098 Mechanisms of cardiovascular disease - Protein chemistry of thy-1 and related synaptosomal proteins (mice)
** P01HL-1131D-12 0099 Mechanisms of cardiovascular disease - Carbohydrate chemistry of thy-1 and related synaptosomal proteins
** PD1HL-11310-12 01D5 Mechanisms of cardiovascular disease - Biosynthesis of mammalian glycoproteins (rabbits)
P01HL-11351-12 0D04 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)
PD1HL-13262-D7 D012 Arterial wall in atherosclerosis - Characterization of connective tissue components (animals)
R01HL-13336-09 Biochemistry and physiology of human platelets
R01HL-13831-D8 Factors regulating embryonic cardiac morphogenesis (chick, salamandra)
RD1HL-13885-08 0009 Cystic fibrosis and pulmonary disease - Respiratory mucus glycoproteins (human, rabbits)
P50HL-14217-08 0054 Specialized center of research in thrombosis - Coagulation section--Platelet aggregation (human, pig, rabbit, dog)
R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
R01HL-14697-07 Role of platelet membranes in hemostasis (human)
** R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
P5DHL-151D3-07 DD14 A/S SCOR--Early natural history of arteriosclerosis - Biochemistry of atherosclerotic lesions (monkeys, human, cattle)
P50HL-15389-07 0D14 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of pigeon antigens
RD1HL-15474-06 Structure and function of the antihemophilic factor (human, cattle)
RD1HL-15615-06 Structure-function studies of human factor VIII/vWF
RD1HL-15616-04 Platelet membrane proteins in aggregation (human)
** R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
PD1HL-15832-06 0001 Chemical-structural predispositions to lung injury - Chemical composition of lung connective tissue proteins (human, animals)
PD1HL-15832-D6 DDD8 Chemical-structural predispositions to lung injury - Interstitial fibrosis--Connective tissue components in normal and diseased lungs
RD1HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin
R01HL-16318-21 Biochemistry and pharmacology of Na-K transport
RD1HL-17194-03 Comparison of two inherited forms of alpha-1-antitrypsin (human)
P6DHL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
RD1HL-17623-D5 Initial events in thrombus formation on surfaces (human, rats)

(contd)

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**Oriented significantly to above subject.

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** R01HL-17783-04 Complex carbohydrates--Structure, function, synthesis (swine)
P01HL-17812-04 0005 Thrombosis and plasma proteins - In vitro systems of normal platelets, white cells, sera (human)
** R01HL-17881-15 Biosynthesis and degradation of blood group substances (human, animals)
R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)
R01HL-18553-03 Membrane defects in familial hypercholesteremia (human)
R01HL-18634-03 Quarternary structure of erythro and chlorocruorins (invertebrates)
P01HL-18645-03 0003 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
P50HL-18828-03 0002 Specialized center of research in thrombosis - Endothelial cell biology (human, guinea pig)
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
R01HL-18931-02 Lung elastic tissue characteristics (swine, human)
** R01HL-19011-03 Smooth muscle cell membrane glycoprotein biosynthesis (cattle)
R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
R01HL-19068-03 Changes in membrane properties during erythropoiesis (chick embryo)
P50HL-19160-02 0001 Mucus abnormality in cystic fibrosis - Regulation of respiratory secretions (rat, human)
R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
** P50HL-19190-02 0005 Pulmonary SCOR--Pathophysiology, management of IROS - Glycoproteins in mucous secretions (human, cattle)
R01HL-19279-03 Intracellular action of aldosterone in hypertension (human, rats)
R01HL-19685-03 Pathogenesis of inflammation of the lung (guinea pigs)
** R01HL-19996-02 Role of membrane proteins in platelet function (human, rabbits)
R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)
** R01HL-20140-02 Glycoproteins of platelet membrane and platelet function (human)
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
** R01HL-20471-03 Atherosclerosis and diabetes mellitus (human)
R01HL-20520-03 Protein modification--The key to diabetic sequelae (human, animal)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)
** R01HL-20547-02 Glycoproteins in pulmonary alveolar proteinosis (human)
R01HL-20818-02 Platelet storage at 22 degrees C (human)
** R01HL-20868-02 Regulation of glycoprotein biosynthesis in lung (swine)
** R01HL-20971-10 Membrane glycoproteins of platelets and leukocytes (human)
R23HL-21369-02 Tracheal mucin synthesis in experimental bronchitis (rats)
R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
R01HL-21404-01 Raman spectroscopy of erythrocyte and model membranes (human)
** R01HL-21480-01 Structure, source and functions of alveolar glycoproteins (human, rabbits)
R01HL-21487-01 Molecular characterization of Glanzmann's thrombasthenia (human)
** R01HL-21644-01 Fibronectin and related glycoproteins (human, rodents)
** R01HL-21683-02 Purification of erythropoietin (human)
R01HL-21686-02 Purification of erythropoietin (human)
** R01HL-21701-02 Purification of erythropoietin (human)
** R01HL-22270-01 Platelet glycoprotein (human)
R01HL-22444-01 Bronchial mucus production in organ culture (human)
R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)
** R23HL-22818-01 Biosynthesis of human respiratory mucous glycoprotein (also dog)
R01HL-23588-01 NOV infection--Analysis at the subcellular level (chickens)
R01HL-23595-01 Experimental emphysema--Depression of protease inhibitors (rats, hamsters)
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

** N01HR-52957-02 Composition of respiratory mucus (human, swine)

GLYCOSAMINOGLYCANS
SEE POLYSACCHARIDES, GLYCOSAMINOGLYCANS

GLYCOSIDASES
SEE CARBOHYDRASES

GLYCOSIDE HYDROLASES
SEE CARBOHYDRASES

GLYCOSIDES
SEE CARBOHYDRATES, GLYCOSIDES

GLYCOSPHINGOLIPIDS
** R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)
R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
R01HL-18249-04 Isolation and identification of platelet membrane (human)
P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs

GLYCOSPHINGOLIPIDS, CERAMIDE DIHEXOSIDES
R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)

GLYCOSPHINGOLIPIDS, CERAMIDE TRIHEXOSIDES
R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)

N-GLYCOSYLHYDROLASES
R01HL-17783-04 Complex carbohydrates--Structure, function, synthesis (swine)

N-GLYCOSYLHYDROLASES, NAD NUCLEOSIDASE
P01HL-06314-17 0057 Immunologic mechanisms in cardiovascular disease - Antigens in cardiovascular disease (human)

GLYCOSYLTRANSFERASES
** P01HL-11310-12 0105 Mechanisms of cardiovascular disease - Biosynthesis of mammalian glycoproteins (rabbits)
R01HL-14697-07 Role of platelet membranes in hemostasis (human)
R01HL-15125-07 Molecular pathology of genetic disorders in man
** R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
R01HL-17783-04 Complex carbohydrates--Structure, function, synthesis (swine)
** R01HL-20301-02 Genetics of glycosyltransferases in human blood
R01HL-20868-02 Regulation of glycoprotein biosynthesis in lung (swine)
R23HL-22818-01 Biosynthesis of human respiratory mucous glycoprotein (also dog)
N01HR-72921-01 Cystic fibrosis factor identification and quantification (human)

GLYCOSYLTRANSFERASES, ADENINE PHOSPHORIBOSYLTRANSFERASE
R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)

GLYCOSYLTRANSFERASES, GALACTOSYLTRANSFERASES
R01HL-15125-07 Molecular pathology of genetic disorders in man
R01HL-23595-01 Experimental emphysema--Depression of protease inhibitors (rats, hamsters)

GLYCOSYLTRANSFERASES, 1,4-ALPHA-D-GLUCAN:ORTHOPHOSPHATE ALPHA-GLUCOSYLTRANSFERASE
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
R01HL-19181-02 Regulation of heart cAMP-dependent protein kinase (rodents)
R23HL-21320-02 Cyclic nucleotide metabolism in vascular endothelium

GLYCOSYLTRANSFERASES, IMP:PYROPHOSPHATE PHOSPHORIBOSYLTRANSFERASE
R01HL-15125-07 Molecular pathology of genetic disorders in man

GLYCOSYLTRANSFERASES, UDP GLUCOSE:ALPHA-1,4-GLUCAN ALPHA-4-GLUCOSYLTRANSFERASE
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)

** R01HL-13630-08 Control of glycogen synthesis in heart (cattle)
R01HL-22064-02 Glycogen metabolism in anoxic diabetic myocardium (rats)

GLYOXALASE I
SEE CARBON-SULFUR LYASES, GLYOXALASE I

GMP
SEE PURINE NUCLEOTIDES, GUANINE NUCLEOTIDES, GMP

GMP CYCLIC
SEE PURINE NUCLEOTIDES, GUANINE NUCLEOTIDES, GMP CYCLIC

GOAL-STRIVING BEHAVIOR
SEE PSYCHOLOGY, BEHAVIOR, GOAL-STRIVING

GOATS
SEE MAMMALS, ARTIODACTYLA, GOATS*

GOLGI APPARATUS
SEE CELL COMPONENTS, GOLGI APPARATUS

GONADOTROPINS CHORIONIC
SEE REPRODUCTIVE HORMONES, GONADOTROPINS CHORIONIC

GONADS
SEE REPRODUCTIVE SYSTEM, GONADS

GOODPASTURE'S SYNDROME
SEE DISEASES, SYNDROMES NOT LISTED ELSEWHERE, GOODPASTURE'S SYNDROME

GORETEX
SEE PLASTICS, FLUOROCARBON POLYMERS

GOUT
SEE PURINES-PYRIMIDINES METABOLISM ERRORS, GOUT

GOUT DRUGS
SEE PURINES-PYRIMIDINES METABOLISM ERRORS, GOUT DRUGS

GRAFTS
SEE TISSUE COMPATIBILITY-TRANSPLANT, TRANSPLANTATION

GRAM-NEGATIVE AEROBIC RODS AND COCCI
SEE BACTERIA, HALOBACTERIACEAE*

GRAM-NEGATIVE BACTERIA
SEE BACTERIA, GRAM-NEGATIVE*

GRAMICIDIN
SEE ANTIBIOTICS, GRAMICIDIN (UNSPECIFIED)

GRANULOCYTES (GENERAL)
SEE BLOOD CELLS, LEUKOCYTES, GRANULOCYTES (GENERAL)

GRANULOCYTIC LEUKEMIA
SEE NEOPLASMS OF BLOOD AND RE SYSTEM, LEUKEMIA MYELOID

GRANULOCYTOPENIA
SEE BLOOD AND RE DISORDERS, LEUKOCYTE DISORDERS, AGRANULOCYTOSIS

GRANULOMA
SEE NEOPLASMS RELATED INTEREST, GRANULOMA

GRANULOMA, HODGKIN'S
SEE NEOPLASMS OF BLOOD AND RE SYSTEM, HODGKIN'S DISEASE

GRANULOMA AND FIBROSIS, PULMONARY
SEE RESPIRATORY DISORDERS, PULMONARY FIBROSIS AND GRANULOMAS

GRAPHITE
SEE CARBON

GRAVITY
SEE ENVIRONMENT, GRAVITY-MOTION

GRAYANOTOXINS
SEE TOXICOLOGY, PLANT POISONS, GRAYANOTOXINS

GROUND SUBSTANCE
SEE CONNECTIVE TISSUE, GROUND SUBSTANCE

GROUP COUNSELING (PSYCHOLOGY)
SEE MENTAL HEALTH SERVICES, COUNSELING, GROUP

GROUP PROCESSES
SEE PSYCHOLOGY SOCIAL, GROUP PROCESSES

GROUP THERAPY
SEE PSYCHOTHERAPY, GROUP THERAPY

GROUPS, SOCIAL
SEE SOCIAL GROUPS

GROWTH ABNORMAL, HYPERPLASIA (GENERAL)
SEE ALSO BLOOD AND RE DISORDERS, LEUKOCYTE DISORDERS, LEUKOCYTOSIS
SEE ALSO CONNECTIVE TISSUE HYPERPLASIA
SEE ALSO NEOPLASMS OF BLOOD AND RE SYSTEM, BONE MARROW NEOPLASMS, MYELOPROLIFERATIVE
R01HL-02986-21 Zonal renal change with potassium deficiency (rats, human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
P01HL-18575-03 0007 Mechanisms of vascular changes in hypertension - Microscopy of hypertensive arterial lesions (rats)
** P01HL-20592-02 0010 Cell biology of cardiac and skeletal muscle - Mitochondrial genesis during myocardial cell hypertrophy and hyperplasia (rats)
R01HL-22859-01 Effect of carbon monoxide on the developing heart (rats)
R01HL-23600-01 Ions, water, and hypertension (human, dogs, rats)

GROWTH ABNORMAL, HYPERTROPHY

SEE ALSO BLOOD AND RE DISORDERS, SPLENIC DISORDERS, SPLENOMEGALY
SEE ALSO HEART DISORDERS, HEART ENLARGEMENT, VENTRICULAR HYPERTROPHY
SEE ALSO KIDNEY DISORDERS, RENAL HYPERTROPHY
** P01HL-06285-18 0149 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in prediabetic and diabetic subjects (human)
** P01HL-06285-18 0150 Cardiovascular-respiratory physiology and biochemistry - Basement membrane width in non-diabetic hyperglycemia
** P01HL-06285-18 0151 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in diabetic and glucose intolerant children
P01HL-06285-18 0152 Cardiovascular-respiratory physiology and biochemistry - Diabetic microangiopathy by organ and tissue culture (human)
P01HL-11307-12 0003 Biophysical studies in pediatric cardiology - Cellular biophysics (animals)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
P01HL-14388-07 0196 Regulation of the circulation in pathological states - Altered vascular responsiveness in spontaneous hypertension (rats)
P01HL-14388-07 0197 Regulation of the circulation in pathological states - Altered vascular reactivity in pathogenesis of spontaneous hypertension (rats)
R01HL-16606-11 Contraction in heart and other striated muscles (frogs)
** R01HL-19044-03 Effect of drugs on development of cardiac failure (cats)
** R01HL-22845-01 Response of cardiac myosin to hypertrophic stress (rabbits)
R01HL-22859-01 Effect of carbon monoxide on the developing heart (rats)
** R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
R01HL-23232-01 Effect of hypoxia on PVSM and its precursor cells

GROWTH ABNORMAL, METAPLASIA

P50HL-19157-02 0002 Studies in cystic fibrosis and bronchiolitis - Clinical core

GROWTH AND DEVELOPMENT

SEE ALSO BODY WEIGHT
SEE ALSO CELL DIVISION
SEE ALSO CELL GROWTH REGULATION
SEE ALSO CHILD DEVELOPMENT (NON-PSYCHOLOGICAL)
SEE ALSO NEOPLASTIC GROWTH
SEE ALSO POPULATION STUDIES CELL
** P01HL-06312-17 0018 Surgical cardiology - Cardiac transplantation growth (calves)
** P01HL-07896-15 0060 Environmental biomedical research program - Effect of pressure on development of marine crustacean larvae
** P01HL-12157-11 0037 Functions and mechanisms of cell membrane ion transport - Developing structure of heart cells in tissue culture
** P01HL-12157-11 0055 Functions and mechanisms of cell membrane ion transport - Growth and development of synthetic strand heart cells in culture (chick embryo)
P01HL-12157-11 0057 Functions and mechanisms of cell membrane ion transport - Electrophysiological investigations of synthetic strands of heart muscles (rats)
** P01HL-12738-10 0134 Physiologic pharmacology and its clinical applications - Adenylate cyclase and cAMP phosphodiesterase in cardiac development (dogs)
** R01HL-13237-09 Erythrocytes during early development (human, animals)
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
** P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
P01HL-14580-07 0002 Program project in respiratory mechanics - Airway aerodynamics (human, dogs)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
R01HL-15316-07 Lung surfactant system--Control mechanisms (rats)
** R01HL-15526-05 Respiratory mechanics in children
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
** R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
M P01HL-16683-04 Function and growth of cardiac and skeletal muscle
** P01HL-16683-04 0001 Function and growth of cardiac and skeletal muscle - Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)
** P01HL-16683-04 0002 Function and growth of cardiac and skeletal muscle - Myosin, actin, ATP, interaction in solution
** P01HL-16683-04 0003 Function and growth of cardiac and skeletal muscle - Movements of S-1 moieties in muscle fibers
** P01HL-16683-04 0006 Function and growth of cardiac and skeletal muscle - Chemical studies of the contractile system- Development of new reagents
** P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
** R01HL-17367-05 Functional sympathetic development in neonatal hearts (dogs, human)
R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
R01HL-17800-04 Pulmonary reflexes--Central pathways (cats, dogs, rabbits)
** R01HL-17993-04 0009 Ventricular dynamics from surgically inserted markers - Cardiovascular visualization in surgery of growing heart (dogs)
R01HL-18712-03 Iron deficiency-hyperlipidemia in development (rats)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
P50HL-19185-02 0011 Pulmonary SCOR--Neonatal respiratory distress syndromes - Complications and sequelae of neonatal respiratory distress (human)
R01HL-19225-02 0001 Types and mechanims of pulmonary hypertension - Structural changes (human, animals)
R01HL-19225-02 0002 Types and mechanims of pulmonary hypertension - Effect of aorto-pulmonary shunt (pigs)
R01HL-19430-03 Congenital heart malformations and situs inversus (mice)
P01HL-19717-02 0002 Response of the lung to injury - Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)
P01HL-19717-02 0005 Response of the lung to injury - Studies on proteolysis and lung disease (human, animals)
P01HL-19717-02 0006 Response of the lung to injury - Glycosaminoglycans and proteoglycans of the lung (human, rats, hamsters)
** P01HL-19717-02 0028 Response of the lung to injury - Compensatory growth of the lung following pneumonectomy (rabbits)
R01HL-19752-03 Phospholipid synthesis by fetal lung in organ culture (rats)
R01HL-19858-03 UMMC--Blood pressure precursors and consequences (human)
R01HL-19864-03 0003 Blood pressure of children and young adults - Heart rate and blood pressure--Consistency in infancy (human)
R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)
** R01HL-20344-02 Regulation of protein turnover in lung tissue (rats)
P01HL-20581-01 0002 Vascular neuroeffector mechanisms in health and disease - Trophic interaction between adrenergic nerves and vascular smooth muscle
R01HL-20635-03 Factors in lung development (rat and chick embryo)
** R01HL-20749-01 Developing heart--Biophysical aspects (sheep)
** R01HL-20864-01 Postnatal maturation of cardiovascular regulatory system (minipig)
R23HL-21225-02 Connective tissue precursor molecules in the lung (rabbits, hamsters)
R01HL-21376-02 Blood-gas barrier solute and water transport (rabbits)
R01HL-21444-02 Pulmonary mechanics during postnatal development (human)
R01HL-22290-01 Cardiac energy metabolism and protein synthesis (mice)
P01HL-22619-01 0007 Cellular mechanisms of heart failure - Regulation of contractile protein levels in heart muscle (rats)
R01HL-22651-01 Control of protein metabolism in heart muscle
** R01HL-22664-01 Regulation of myocardial cell growth (rats, guinea pigs)
R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)
** R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)
R01HL-23601-01 Early hypoxia and development of respiratory control

GROWTH AND DEVELOPMENT, HISTOGENESIS

SEE ALSO CARDIOVASCULAR SYSTEM, ANGIOGENESIS
SEE ALSO CELL-CELL INTERACTION, CELL AGGREGATION
SEE ALSO CELL DIFFERENTIATION
SEE ALSO CONGENITAL ABNORMALITIES
SEE ALSO CONNECTIVE TISSUE DEVELOPMENT
SEE ALSO DENTAL DEVELOPMENT
SEE ALSO MUSCLES, MYOGENESIS
SEE ALSO NERVOUS SYSTEM, NEUROGENESIS
SEE ALSO PITUITARY GLAND DISORDERS, ACROMEGALY
R01HL-07605-16 Congenital heart disease research program (human, dogs)
P01HL-10436-13 0009 A multidisciplinary study of congenital heart disease - Pathophysiology and morphogenesis of congenital heart disease (human)
R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)
P50HL-14214-07 0015 Newborn lung center for hyaline membrane disease - Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal)
** P50HL-14214-07 0020 Newborn lung center for hyaline membrane disease - Epidermal growth factor effect Lung differentiation, maturation (human, rabbit)
** P50HL-14214-07 0021 Newborn lung center for hyaline membrane disease - Development of surfactant system--Surfactant production and release (rat, rabbit)
P50HL-14214-07 0022 Newborn lung center for hyaline membrane disease - Functional integrity of surfactant system- Hyaline membrane disease (lamb, rat)
** P50HL-14214-07 0023 Newborn lung center for hyaline membrane disease - Regulation of fetal lung maturation--Vitamin A (rat, rabbit, sheep, human)
P50HL-14214-07 0024 Newborn lung center for hyaline membrane disease - Synthesis and receptors for ACTH in fetal lung (human)
R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
** R01HL-15341-06 Lung hormonal and chromosomal regulation (rats, rabbits)
R01HL-15444-06 Neonatal development of adrenergic receptor mechanisms (pigs)
P01HL-16117-05 0001 Ion movements and membranes in cardiovascular control - Developmental studies of contractile cell junctions (rats, rabbits, elasmobranch)
** P01HL-16137-05 0013 Alveolar biology - Development and pathology of surfactant--Formation of alveolar (rabbits, sheep)
P60HL-17269-04 0021 National heart and blood vessel research and demonstration center - Growth and development of heart--Ultrastructure (dog, guinea pig, rat, cat)
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
P01HL-17731-04 0003 Physiological basis of pulmonary disease - Comparative physiology (vertebrates)
P50HL-19185-02 0001 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sites of synthesis, secretion and structure of surface active material (rat)
P50HL-19185-02 0002 Pulmonary SCOR--Neonatal respiratory distress syndromes - Biochemistry, ultrastructure--Pulmonary surface active material (human, animal)
** P50HL-19185-02 0003 Pulmonary SCOR--Neonatal respiratory distress syndromes - Factors affecting formation and release of pulmonary surfactant in fetal lambs
** P50HL-19185-02 0005 Pulmonary SCOR--Neonatal respiratory distress syndromes - Role and mechanism of glucocorticoids in fetal lung maturation (human, rabbit)
** R01HL-19379-03 Characterization of small-granule cells in the lung (mammals)
** P01HL-19717-02 0023 Response of the lung to injury - Postnatal lung development--Cells, connective tissue and physiology (animals)
** P01HL-19717-02 0024 Response of the lung to injury - Formation of lung alveoli (rats)
** P01HL-19717-02 0025 Response of the lung to injury - Role of oxygen in regulation of lung growth and development (rats)
** P01HL-19717-02 0026 Response of the lung to injury - Protein depletion and postnatal lung development (rats)
** P01HL-19717-02 0027 Response of the lung to injury - Hormone control of lung growth and development (rats)
** R01HL-20132-03 Histogenesis and biochemistry of embryonic lung (birds)
** R01HL-20749-01 Developing heart--Biophysical aspects (sheep)
R01HL-21176-02 Phospholipid exchange proteins in lung tissue (lambs)
R01HL-21649-01 Biochemistry of lung proteoglycans (mammals)
R01HL-22560-02 Structure and motion of cilia (Tetrahymena, mussels)
R01HL-22784-01 Ductus arteriosus closure--An arterial lesion model (rabbits)
** R23HL-22959-01 Heart development in inherited cardiomyopathy (hamsters)
R01HL-22963-01 Symbolic logic analysis of congenital heart disease (human)

GROWTH AND DEVELOPMENT, REGENERATION

SEE ALSO CARDIOVASCULAR SYSTEM, BLOOD SUPPLY, REVASCULARIZATION NON-SURGICAL
SEE ALSO HEART REVASCULARIZATION
SEE ALSO INJURIES, WOUND HEALING
SEE ALSO NERVOUS SYSTEM REGENERATION
** R01HL-01803-23 0014 Arteriosclerosis, glomerulonephritis, rheumatic fever - Regenerated endothelium on lipid accumulation in arterial wall (rabbit)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-03174-23 0007 Mechanisms of acute vascular reaction to injury - Healing of injured myocardium--Basal lamina scaffold (human, rats, dogs)
R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
P01HL-11414-11 0037 Thrombosis and atherosclerosis program - Vascular intimal injury and healing (rabbits, rats)
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
** P50HL-14214-07 0022 Newborn lung center for hyaline membrane disease - Functional integrity of surfactant system--Hyaline membrane disease (lamb, rat)
** R01HL-16330-06 Aging-tissue injury and repair (rats)
** R01HL-17747-04 Endothelial injury and regeneration (rats)
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
R23HL-21225-02 Connective tissue precursor molecules in the lung (rabbits, hamsters)
R23HL-21950-01 Endothelial cell mechanisms in vascular disease (human)
P01HL-22602-01 0004 Pathophysiology of the endothelium - Endothelium, platelets smooth muscle and atherosclerosis (rabbits)
R01HL-23981-01 Acute alveolar injury (dogs)

GROWTH DISORDERS POSTNATAL (SEE ALSO APPROPRIATE SPECIFICS)
SEE ALSO PREGNANCY DISORDERS, EMBRYO-FETAL GROWTH-DEVELOPMENT DISORDERS (SEE ALSO APPROPRIATE SPECIFICS)
R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
P60HL-16008-06 0015 Wayne State University comprehensive sickle cell center - Trace elements in sickle cell disease (human)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
M P01HL-19717-02 Response of the lung to injury
** P01HL-19717-02 0026 Response of the lung to injury - Protein depletion and postnatal lung development (rats)

GROWTH DISORDERS PRENATAL
SEE PREGNANCY DISORDERS, EMBRYO-FETAL GROWTH-DEVELOPMENT DISORDERS (SEE ALSO APPROPRIATE SPECIFICS)

GROWTH FACTORS (INCL. ANABOLICS)
P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel disease--Cell and matrix response (human, mice)
R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)
P01HL-16387-04 0009 The blood vessel and thrombogenesis - Role of pituitary gland in the pathogenesis of arteriosclerotic lesions (rats)
R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
R01HL-18826-04 Interaction of peptides and target cells in lung (human)
R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)
** R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)
P50HL-21006-02 0004 Specialized center of research in arteriosclerosis - Regulation of growth of human arterial smooth muscle cells by platelets

GROWTH FACTORS (INCL. ANABOLICS), EPIDERMAL GROWTH FACTOR
P50HL-14214-07 0015 Newborn lung center for hyaline membrane disease - Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal)
** P50HL-14214-07 0020 Newborn lung center for hyaline membrane disease - Epidermal growth factor effect--Lung differentiation, maturation (human, rabbit)
P50HL-19190-02 0003 Pulmonary SCOR--Pathophysiology, management of IRDS - Type II cells--Regulation and differentiation (rat)

GROWTH HORMONES VERTEBRATE, SOMATOMEDIN (SULFATION FACTOR)(THYMIDINE FACTOR)
R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)

GROWTH INHIBITORS
SEE ALSO CELL GROWTH REGULATION, CHALONES
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
R01HL-18625-03 Organization of arterial ground substance (cattle)
R01HL-19136-03 Mucopolysaccharide metabolism in cardiac anomalies (rats)

GROWTH MEDIA
P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel disease--Cell and matrix response (human, mice)
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)
P01HL-17430-05 0008 Control of coagulation - Cultures of von Willebrand endothelial cells (pigs)
R23HL-21663-01 Regulation of collagen biosynthesis (chick, embryo)
R01HL-22883-01 Lung epithelial cell interactions in vitro

GROWTH MICROORGANISMS, MICROBIAL CULTURE
** P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)

GROWTH REGULATION, CELLULAR
SEE CELL GROWTH REGULATION

GROWTH RETARDATION INTRAUTERINE
SEE PREGNANCY DISORDERS, EMBRYO-FETAL GROWTH-DEVELOPMENT DISORDERS (SEE ALSO APPROPRIATE SPECIFICS)

GROWTH RETARDATION POSTNATAL
SEE GROWTH DISORDERS POSTNATAL (SEE ALSO APPROPRIATE SPECIFICS)

GTP
SEE PURINE NUCLEOTIDES, GUANINE NUCLEOTIDES, GTP

GUANETHIDINE
SEE GUANIDINES, GUANETHIDINE

GUANIDINES
P01HL-16833-04 0001 Hemoglobin and red cell system in hemoglobinopathies - Motility, association and ligand binding in hemoglobin--Hydrogen exchange
P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
P01HL-18574-03 0005 Lipoprotein methodology and biomedical applications - Structure and function of lipoproteins
R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)

GUANIDINES, BETHANIDINE
P01HL-11310-12 0078 Mechanisms of cardiovascular disease - Ventricular arrhythmias in acute myocardial infarction (dogs)

GUANIDINES, BIGUANIDES, PHENETHYLBIGUANIDE
P01HL-20993-02 0005 Population dynamics of arterial cells in atherogenesis - Drugs other than hypolipidemic drugs affecting atherosclerosis (swine, rabbits)

GUANIDINES, GUANETHIDINE
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
** R01HL-20604-03 Sympathectomy--Cardiovascular and molecular pharmacology (animals)
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
R01HL-22170-01 Factors influencing transmission at adrenergic synpases

GUANINE
SEE PURINES, GUANINE

GUANOSINE MONOPHOSPHATE
SEE PURINE NUCLEOTIDES, GUANINE NUCLEOTIDES, GMP

GUANOSINE MONOPHOSPHATE CYCLIC
SEE PURINE NUCLEOTIDES, GUANINE NUCLEOTIDES, GMP CYCLIC

GUANOSINE PHOSPHATES
SEE PURINE NUCLEOTIDES, GUANINE NUCLEOTIDES, GUANOSINE PHOSPHATES

GUANOSINE TRIPHOSPHATE
SEE PURINE NUCLEOTIDES, GUANINE NUCLEOTIDES, GTP

GUANYLATE CYCLASE
SEE NUCLEOTIDYL-CYCLASES, GUANYLATE CYCLASE

GUENONS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS (CATARRHINES)*

GUEREZA
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS (CATARRHINES)*

GUINEA PIGS
SEE MAMMALS, RODENTS, HYSTRICOMORPHA, GUINEA PIGS*

GUINEA PIGS, R9
SEE MAMMALS, RODENTS, HYSTRICOMORPHA, GUINEA PIGS*

GUT LYMPHOID TISSUE DEPENDENT IMMUNITY
SEE IMMUNITY, HUMORAL IMMUNITY

H ANTIGENS (HISTOCOMPATIBILITY)
SEE TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOANTIGENS

HA ANTIGEN
SEE IMMUNOLOGY, ANTIGENS VIRAL, HEPATITIS B ANTIGEN (HBAG)

HAA ANTIGEN
SEE IMMUNOLOGY, ANTIGENS VIRAL, HEPATITIS B ANTIGEN (HBAG)

HABITUATION
SEE PSYCHOLOGY, LEARNING, HABITUATION

HAGEMAN FACTOR
SEE BLOOD COAGULATION, HAGEMAN FACTOR

HALIDES
SEE HALOGENS (AND HALO COMPOUNDS), GENERAL

HALO COMPOUNDS
SEE HALOGENS (AND HALO COMPOUNDS), GENERAL

HALOALKANES, HALOTHANE
P01HL-06370-17 0006 Cardiopulmonary and renal pathology research center - Chemical basis of ultrastructural changes in disease (rats)
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
R01HL-13888-15 Regulation of respiration
R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
R01HL-19256-03 Arterial baroreceptors in cardiovascular control (dogs)

HALOALKYLAMINES, CYCLOPHOSPHAMIDE
P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
R01HL-08696-15 0013 Orthotopic heart transplantation - Transplantation immunology--Cardiac heterotransplantation (rabbits, dogs)
P01HL-12738-10 0130 Physiologic pharmacology and its clinical applications - Compatibility enhancement during cardiac allografting (dogs)
P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immune response (dogs)
R01HL-14799-07 Cardiac heterotransplantation--Immunologic modification (mice, rat)
P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
P01HL-17417-05 0004 Experimental lung transplantation - Methods for suppressing lung allograft rejection (dogs, mice)
R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)
R23HL-21997-01 Pulmonary immunopathology in the compromised host (guinea pigs)
R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)
R23HL-22448-01 Modulation of heart graft antigenicity by perfusion (rats)

HALOALKYLAMINES, MECHLORETHAMINE
P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury - Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)

HALOALKYLAMINES, NITROGEN MUSTARDS
SEE ALSO HALOALKYLAMINES, CYCLOPHOSPHAMIDE
SEE ALSO HALOALKYLAMINES, MECHLORETHAMINE
P01HL-21016-02 0004 Sickle cell anemia and other hemoglobinopathies - Kinetics of sickling
** P01HL-21016-02 0009 Sickle cell anemia and other hemoglobinopathies - Nitrogen mustards and their potential use as antisickling agent
** P01HL-21016-02 0011 Sickle cell anemia and other hemoglobinopathies - Metabolic effects of anti-sickling agents (hamsters)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-21016-02 0013 Sickle cell anemia and other hemoglobinopathies Microcirculatory response to sickle cell treated with anti-sickling agents (rats)

HALOBACTERIACEAE
SEE BACTERIA, HALOBACTERIACEAE*

HALOBENZENES, HALOGENATED BIPHENYLS-TRIPHENYLS AND ANALOGS
P01HL-08214-15 0005 Chemical and biological properties of lipids - Metabolism of lipids in animals

HALOETHERS
** R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)

HALOETHERS, ETHRANE
R01HL-13888-15 Regulation of respiration

HALOETHERS, FORANE
R01HL-15392-06 Autonomic and circulatory actions of anesthetics (dog, cat, rabbit, monkey)

HALOETHERS, METHOXYFLURANE
P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human)

HALO FATTY ACIDS, CHLORO FATTY ACIDS, DICHLOROACETATE
R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)

HALO FATTY ACIDS, IODO FATTY ACIDS
P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)

HALOFENATE
SEE PHENOXYACETIC ACIDS, HALOFENATE

HALOGENATED BIPHENYLS-TRIPHENYLS AND ANALOGS
SEE HALOBENZENES, HALOGENATED BIPHENYLS-TRIPHENYLS AND ANALOGS

HALOGENATION, IODINATION-DEIODINATION
N01HI-32926-10 Analysis of lipoproteins (animals)

HALOGENS (AND HALO COMPOUNDS), GENERAL
** P01HL-06370-17 0006 Cardiopulmonary and renal pathology research center - Chemical basis of ultrastructural changes in disease (rats)
R01HL-20725-02 Mechanisms and cellular functions of ion transport

HALOGENS, CHLORINE (COMPOUNDS) SEE ALSO SPECIFICS
SEE ALSO POTASSIUM CHLORIDE
SEE ALSO SODIUM CHLORIDE
P01HL-12157-11 0049 Functions and mechanisms of cell membrane ion transport - Ouabain-insensitive cation transport in duck red cells
P01HL-12157-11 0058 Functions and mechanisms of cell membrane ion transport - Ionic and osmotic regulation in toadfish--A euryhaline aglomerular teleost
R01HL-12879-09 0008 Pulmonary transport and metabolism in vivo - Stop-flow technique for permeability measurements
R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)
P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport
R01HL-20365-03 Molecular mechanisms of anion transport
P01HL-20592-02 0013 Cell biology of cardiac and skeletal muscle - Sarcoplasmic reticulum in skinned muscle cells (frogs)
R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
** R01HL-22390-01 Effect of chloride on renin (rats, dogs)
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)

HALOGENS, FLUORINE (COMPOUNDS) SEE ALSO SPECIFICS
SEE ALSO RADIOISOTOPES, FLUORINE
P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology

HALOOLEFINS, VINYLIDENE CHLORIDE
** P50HL-19170-02 0005 Harvard pulmonary SCOR--Chronic diseases of the airways - Pulmonary toxicology of plastics intermediates and pyrolysis products (animal)

HALOPERIDOL
SEE PIPERIDINES, HALOPERIDOL

HALOPROTEINS, PROTEIN BOUND IODINE
SEE ALSO HALOPROTEINS, THYROXINE BINDING PROTEINS
R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)

HALOPROTEINS, THYROXINE BINDING PROTEINS
SEE ALSO HALOPROTEINS, PROTEIN BOUND IODINE
R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)

HALOPYRIMIDINE NUCLEOSIDES, HALOURACIL NUCLEOSIDES, 5-BROMODEOXYURIDINE
** P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro

HALOTHANE
SEE HALOALKANES, HALOTHANE

HAMSTERS
SEE MAMMALS, RODENTS, MYOMORPHA, HAMSTERS*

HAMSTERS, ALBINO
SEE MAMMALS, RODENTS, MYOMORPHA, HAMSTERS*

HAMSTERS, CHINESE
SEE MAMMALS, RODENTS, MYOMORPHA, HAMSTERS*

HAMSTERS, GOLDEN
SEE MAMMALS, RODENTS, MYOMORPHA, HAMSTERS*

HAMSTERS, SYRIAN
SEE MAMMALS, RODENTS, MYOMORPHA, HAMSTERS*

HAMSTERS, SYRIAN GOLDEN
SEE MAMMALS, RODENTS, MYOMORPHA, HAMSTERS*

HAMSTERS, WHITE
SEE MAMMALS, RODENTS, MYOMORPHA, HAMSTERS*

HAND
SEE SKELETAL SYSTEM, LIMB, HAND

HANDBOOK
SEE PUBLICATIONS, HANDBOOK

HAPALE
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*

HAPTENS
SEE IMMUNOLOGY, HAPTENS

HAPTOGLOBINS
SEE HEMOPROTEINS, HAPTOGLOBINS

HARDWARE, COMPUTERS
SEE COMPUTER, DESIGN AND EVALUATION OF COMPUTERS (INCL. HARDWARE)

HARES
SEE MAMMALS, LAGOMORPHS*

HASHISH
SEE ALKALOIDS, CANNABIS

HAWAIIANS
SEE SOCIAL GROUPS, ETHNIC, AMERICANS, HAWAIIANS

HAY FEVER
SEE HYPERSENSITIVITY, RESPIRATORY HYPERSENSITIVITY, HAY FEVER

HAZARDS, OCCUPATIONAL
SEE OCCUPATIONAL HEALTH, OCCUPATIONAL HAZARDS

HAZARDS OF MEDICAL EQUIPMENT
SEE BIOMEDICAL ENGINEERING, MEDICAL EQUIPMENT SAFETY

HDL (LIPOPROTEINS)
SEE LIPOPROTEINS BLOOD, HDL

HEAD AND NECK INJURIES
SEE INJURIES, HEAD AND NECK

HEAD INJURIES
SEE INJURIES, HEAD AND NECK

HEADACHE
SEE NEUROLOGIC MANIFESTATIONS, HEADACHE

HEALING
SEE INJURIES, WOUND HEALING

HEALTH (ALSO PHYSICAL ACTIVITY)
SEE ALSO MENTAL HEALTH
SEE ALSO POPULATION STUDIES HUMAN, MORBIDITY
SEE ALSO PSYCHOLOGY, ATTITUDE TO HEALTH AND HEALTH PROBLEMS
R01HL-19877-02 Prevention of high blood pressure in children

HEALTH, DISEASE PREVENTION AND CONTROL
SEE ALSO CARDIOVASCULAR DISORDERS PREVENTION AND CONTROL (NOT INCLUDED ELSEWHERE)
SEE ALSO COMMUNICABLE DISEASE CONTROL
SEE ALSO DIAGNOSTIC SERVICES, MASS SCREENING
SEE ALSO DIAGNOSTIC TESTS, EARLY DIAGNOSIS*
SEE ALSO EPIDEMIOLOGY AND DISEASE CONTROL STUDY SECTION
SEE ALSO POPULATION STUDIES HUMAN, EPIDEMIOLOGY
SEE ALSO TOXICOLOGY, POISON CONTROL AND PREVENTION
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
P01HL-06285-18 0143 Cardiovascular respiratory physiology and biochemistry Myocardial ischemia (human, dogs, lambs)
P01HL-09011-15 0020 A research and resource program in blood - Passive immunization in the prevention of transmission of hepatitis B (human)
P01HL-09011-15 0023 A research and resource program in blood - Evaluation of hepatitis B vaccine in endemic settings (human)
R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies--Dimensions, effectiveness
P60HL-15170-05 0006 Support for center for sickle cell anemia - Pediatric services--Comprehensive clinic
** R01HL-15504-05 Animal model for studies on averting atherosclerosis (swine)
R01HL-16908-04 Myocardial function, risk factors and future CHD (men)
R01HL-16909-04 Myocardial function, risk factors and future CHD (men)
R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)
R01HL-18097-04 Pathogenesis of acute renal failure (rats)
R25HL-18406-03 Adherence to hypertensive medical regimens (human)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
** R01HL-18610-03 Early intervention of age related arterial changes (pigeon)
R01HL-18891-02 Electrolyte intake and blood pressure in hypertension (human)
R01HL-19112-03 Atherosclerosis studies (monkeys)
** R01HL-19307-03 Problems in prevention of rheumatic heart disease (human)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-19858-03 UMMC--Blood pressure precursors and consequences (human)
R01HL-19870-03 Hypertensive progeny--Physical and humoral precursor search
R01HL-19922-03 Childhood determinants of blood pressure
R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
R01HL-19930-03 A prospective study--Blood pressure in newborn twins
R01HL-19962-03 High blood pressure in young people in Tecumseh
R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
R01HL-20005-03 Factors in blood pressure levels of children
R01HL-20034-03 Hypertension--Psychophysiologic and genetic precursors (human)
R01HL-20244-02 he impact of hypertension information
R01HL-20245-01 The impact of hypertension information
R01HL-20247-01 The impact of hypertension information
R01HL-20248-01 The impact of hypertension information
R01HL-20374-03 Myocardial function--Risk factors and future CHD (human)
** R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
** R01HL-20750-01 Studies in sickle cell disease (human)
R01HL-20856-02 Platelet transfusions--Usage and complications (human)
** P01HL-22163-01 0003 Surface thrombogenesis--Mechanisms and prevention - In vivo mechanisms of biomaterial thrombogenesis and its prevention (baboons)
R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease
R01HL-22298-02 Origins of hypertension (human)
** R01HL-22472-01 Smoking risk-factor reduction--Maintenance strategies (human)
R23HL-22947-01 Experimental systems to improve youth behavior (smoking prevention)
R01HL-23194-02 Genetics of hypertension and associated variables (human)
N01HR-62931-02 Development and evaluation of continuing education in pulmonary medicine
N01HR-62948-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
N01HR-62949-05 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
N01HR-62950-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
N01HR-62951-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
N01HR-62952-05 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
N01HV-22917-11 Lipid research clinic (human)
** N01HV-22971-07 Prevention of coronary heart disease (human)
** N01HV-22976-07 Multiple risk factor intervention trial, prevention of coronary heart disease

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** N01HV-22977-08 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22979-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-22981-10 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
** N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-33101-06 Development and conduct of a multiple risk factor intervention trial (human)
** N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
** N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-33108-04 Prevention of coronary heart disease (human)
** N01HV-33109-04 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-33110-04 Prevention of coronary heart disease (human)
** N01HV-42911-07 ECG center for prevention of coronary heart disease (human)
** N01HV-42929-08 Risk factor intervention trial for the prevention of CHD (human)
** N01HV-42930-09 Risk factor intervention trial for the prevention of CHD (human)
** N01HV-42931-07 Risk factor intervention trail for the prevention of CHD (men)
** N01HV-42932-05 Risk factor intervention trial for the prevention of CHD (human)
** N01HV-52901-06 Aspirin-myocardial infarction study
** N01HV-72984-03 High blood pressure control program (human)
** N01HV-72986-02 High blood pressure control program (human)
** N01HV-72987-02 High blood pressure control program (human)
** N01HV-72989-02 High blood pressure control program (human)
** N01HV-72990-00 High blood pressure control program (human)

HEALTH, PHYSICAL ACTIVITY, EXERCISE

** R01HL-02228-24 Respiration, circulation, and heat regulation in exercise (bird, mammals)
R01HL-03429-18 Central nervous system and coronary heart disease (human)
R01HL-05883-18 0002 Reflex control of resistance and capacitance vessels - Adenosine, adenine nucleotides and vascular smooth muscle (dog)
R01HL-05883-18 0006 Reflex control of resistance and capacitance vessels - Cardiopulmonary vagal afferents in the conscious dog
R01HL-05883-18 0007 Reflex control of resistance and capacitance vessels - Prostaglandins and skeletal muscle blood flow (dogs)
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
** R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
P01HL-06285-18 0153 Cardiovascular-respiratory physiology and biochemistry - Myocardial mechanics and pharmacology in isolated papillary muscle (animals)
P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
M P01HL-06296-18 Cardiovascular and pulmonary adaptation to stress
P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
P01HL-06308-18 0044 Mechanisms and therapy of circulatory disease - Echocardiography to determine site of ectopic impulse formation (human, dogs)
P01HL-06312-17 0028 Surgical cardiology - Coronary flow in the transplanted denervated heart (dogs)
P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)
P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
** P01HL-07896-15 0048 Environmental biomedical research program - Respiratory performance in divers at 1400 FSW
P01HL-07896-15 0050 Environmental biomedical research program - Fundamental decompression concepts using the rat animal model
P01HL-08682-15 0022 Regulation of the cardiovascular system - Blood pressure responses and preganglionic sympathetic outflow (cat)
P01HL-08805-15 0047 Regulation of ventilation and pulmonary circulation - Extracranial metabolic control of ventilation (dogs, goats)
P01HL-08899-14 0018 Tolerance to respiratory gases in health and disease - Effects of respiratory gases at extreme pressures (human)
** P01HL-08899-14 0031 Tolerance to respiratory gases in health and disease - Studies in exercise (human, dogs)
** P01HL-08899-14 0035 Tolerance to respiratory gases in health and disease - Simulation of the increased metabolism of exercise (dogs)
** P01HL-08899-14 0036 Tolerance to respiratory gases in health and disease - Chemical and neurogenic components of respiratory simulation in exercise (human)
** P01HL-08899-14 0041 Tolerance to respiratory gases in health and disease - Blood gas transport and brain circulatory control (human)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
M P01HL-10539-12 Pathophysiology of circulation
** P01HL-10539-12 0031 Pathophysiology of circulation - Post myocardial infarction care--Psychological aspects (human)
** P01HL-10539-12 0064 Pathophysiology of circulation - Exercise physiology and pathophysiology (human)
P01HL-10539-12 0065 Pathophysiology of circulation - Physiologic correlates of relaxation (human)
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
P01HL-11310-12 0079 Mechanisms of cardiovascular disease - Electrophysiological studies of complete heart block (human)
P01HL-11678-11 0017 Cardiovascular dynamics and their control - Overall control of circulation--Mathematical analyses
** R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Determinants of performance of the whole heart (dogs)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
R01HL-12607-10 Dynamics of pulsatile blood flow (human, dogs, rats)
P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
P01HL-13108-09 0020 Clinical heart transplantation - Autonomic neural studies in the denervated heart (human)
P01HL-13108-09 0022 Clinical heart transplantation - Studies on cardiac receptors (human)
** P01HL-13108-09 0023 Clinical heart transplantation - Adaptive mechanisms of the denervated heart (human)
** R01HL-13233-08 Cardiorespiratory control in exercise (human)
R01HL-13841-16 Respiration during altitude acclimatization (goats, dogs, rats, rabbits)
R01HL-13888-15 Regulation of respiration
** P50HL-14138-05 0010 Center for research on atherosclerosis - Diet and exercise as therapy in men with premature atherosclerosis
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
P01HL-14414-07 0003 Environmental influences on cardiorespiratory and cellular functions - Exposure to abnormal gaseous environments (human, dogs, rabbits)
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
** P01HL-14414-07 0015 Environmental influences on cardiorespiratory and cellular functions - Control of the cardiovascular system (dogs)
P01HL-14414-07 9002 Environmental influences on cardiorespiratory and cellular functions - Core--Computer facility
R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
R01HL-14967-06 Chemoreceptor function in dynamic ventilatory control (human, dogs)
P01HL-14985-07 0002 Adaptation to hypoxia - Oxygen transport in man at high altitude
P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
** P01HL-14985-07 0008 Adaptation to hypoxia - Ventilatory drive and exercise capacity (human, dogs)
P01HL-14985-07 0014 Adaptation to hypoxia - High altitude pulmonary edema (human, rats, dogs)
R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
P01HL-15194-07 0019 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, bypass grafts and diastolic driving pressure (human, dogs)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
** R01HL-15498-06 Effects of physical training on heart (rats)
R01HL-15607-06 Physiological control of splanchnic circulation (dogs)
R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
P60HL-15996-06 0005 Cincinnati comprehensive sickle cell center - Factors precipitating crises (human)
** R01HL-16292-05 0009 Surgery and non-obstructive coronary insufficiency - Exercise and supply-demand balance (human)
** R01HL-16292-05 0010 Surgery and non-obstructive coronary insufficiency - Effects of exercise on flow distribution (dogs)
R01HL-16325-03 Breathing patterns in man
** R01HL-16390-05 Cardiopulmonary control coupling in exercise (dogs)
** R01HL-16420-02 Effect of training-detraining on the rat heart
** R01HL-16463-05 Localization of airways obstruction and responses
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
R01HL-16828-04 Gradient and transport of oxygen in tissue and organs (mammals)
P01HL-16910-05 0001 Regulation of the peripheral circulation - Quantitative studies of microcirculatory control (bats)
P01HL-16910-05 0006 Regulation of the peripheral circulation - Regulation of blood flow distribution (baboons, dogs)
P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)
P60HL-17265-04 0002 Community blood resource center support - Research--Human factor VIII
P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
R01HL-17403-03 Metabolic control of cardiac output (dogs)
** P50HL-17669-04 0008 Ischemic heart disease center (SCDR) - Segmental ventricular dysfunction during stress-induced ischemia (dog, human)
P50HL-17682-04 0013 Study of ischemic heart disease - Chronic ischemic heart disease--Myocardial function and metabolism (dogs, swine)
** P50HL-17682-04 0016 Study of ischemic heart disease - Endurance exercise--Prevention and rehabilitation in ischemic heart disease (pig)
** R01HL-17689-06 Neurophysiologic studies of respiratory control (cats)
P01HL-17731-04 0010 Physiological basis of pulmonary disease - Gas exchange kinetics (dogs)
R01HL-17732-03 Peripheral venomotor control in thermal stress (human)
R01HL-17808-03 Effect of altered oxygen affinity on oxygen transport (human, rats)
** R01HL-17809-04 Effects of exercise on the coronary vasculature (rat, dog)
** R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
** R01HL-17932-04 Blood flow regulation in muscle (cats)
** R01HL-17993-04 0004 Ventricular dynamics from surgically inserted markers - Exercise training following coronary artery bypass graft surgery (human)
** R01HL-17993-04 0008 Ventricular dynamics from surgically inserted markers - Exercise after coronary bypass (human)
R01HL-18007-05 Neural mechanisms controling motor act of breathing (cats, human)
R01HL-18020-04 Splanchnic hemodynamics in man
R01HL-18145-03 Dxygen transport mechanisms in hypoxia (dogs, rats, rabbits)
** R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
** R01HL-18560-03 Cardiovascular adaptation to stress (miniature swine)
P01HL-18574-03 0001 Lipoprotein methodology and biomedical applications - Ultracentrifugal and electrophoretic lipoprotein methodology--Applications
R01HL-18798-04 0003 Nervous and ionic factors in sudden cardiac death - Left stellectomy in the prevention of sudden death (dogs)
R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
** P50HL-19170-02 0004 Harvard pulmonary SCDR--Chronic diseases of the airways - Exercise, increased ventilation effect on airway exposure and responses (rodent)
P50HL-19170-02 0006 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanism of overdistension (human, animal)
P50HL-19170-02 0007 Harvard pulmonary SCDR--Chronic diseases of the airways - Therapy effect on airway obstruction in acute asthma (human)
P50HL-19170-02 0009 Harvard pulmonary SCDR--Chronic diseases of the airways - Ventilatory muscle training in chronic obstructive pulmonary disease (human)
R01HL-19248-03 Breathing pattern variation and mechanical influences
** R01HL-19410-03 Dynamic interrelations underlying exercise hyperpnea (human)
P01HL-19717-02 0008 Response of the lung to injury - Experimental models of lung disease
P01HL-19717-02 0046 Response of the lung to injury - Bioengineering section
P01HL-19737-02 0005 Cellular and molecular aspects of respiratory physiology - Interaction of respiratory exchanges and blood gas parameters (human, animals)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
** R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
** R01HL-20187-01 Evaluation of exercise cardiac rehabilitation program (40-55 year old men)
R01HL-20253-02 Effects of exercise on the heart and its blood supply (dogs)
R01HL-20328-01 Noninvasive assessment of autonomic cardiac control (dogs)
R01HL-20347-02 Bolus-response measurement of lung function (human)
** R01HL-20408-03 Hyperlipidemia in diabetics during muscular training (human)
R01HL-20597-02 Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits)
** R01HL-20634-01 Blood volume and venous return in thermal strain (human)
R01HL-20662-02 Physical activity, fitness and epidemiology of CHD
R01HL-20663-02 Regulation of skin blood flow in man
R01HL-20827-02 Effects of hypertrophy on the coronary circulation (dogs)
R01HL-20895-03 0002 Cineangiographic studies of cardiovascular system - Coronary disease--Regional myocardial blood flow (human, dog)
R01HL-20954-02 Hyperlipoproteinemia (rats, human)
R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
R01HL-21034-01 Compensatory responses to arterial occlusion (dogs)
R01HL-21117-01 Altitude adaptation in chronic lung disease (human)
** R01HL-21126-02 Exercise-induced bronchospasm in children
** R01HL-21245-02 Influence of chronic exercise on hypertension (rats, primates)
R01HL-21282-01 Dynamics of interstitial space in whole animals (rats)
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
R01HL-21307-01 Risk reduction and exercise fitness in a population
R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
R01HL-21427-02 Behavioral changes in post infarction patients
** R01HL-21578-01 Effect of exercise upon the hypertensive adolescent
R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
** R23HL-21901-01 Hypertension, microvascular control and exercise (rats)
R18HL-21906-01 Stanford five city multifactor risk reduction study
** R23HL-21954-01 Exercise conditioning in patients with cystic fibrosis
** R23HL-21990-01 Accuracy of the ventilatory response to exercise (dogs)
R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
R01HL-22022-01 Respiratory muscle dysfunction in respiratory failure (human)
** R01HL-22154-01 Cardiac adaptation to physical training (dog)
** R01HL-22215-01 Effects of exercise-training in ischemic heart disease (human)
** R01HL-22361-01 Regulation of cardiac adaptation to exercise (rats)
R01HL-22378-01 Psyco-somatic predictors of CHD in adolescence (human)
R01HL-22506-01 Hemodynamics of the clinical hypertensions
R23HL-22621-01 Blood cell-mediated pulmonary (human)
R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
** R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)
R23HL-22975-01 Dynamics of autoregulation of muscle blood flow (dogs)
R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
** R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)
N01HR-72974-01 Self-management systems for asthmatic children
N01HV-62955-04 Data collection in clinical pathology and morbid anatomy (men)

HEALTH, PHYSICAL ACTIVITY, FATIGUE

R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
P01HL-19737-02 0008 Cellular and molecular aspects of respiratory physiology - Kinetics of movement of acid metabolites from cell to capillary blood (dogs)

HEALTH, PHYSICAL ACTIVITY, REST

SEE ALSO PSYCHIC ACTIVITY LEVEL, SLEEP
R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
R01HL-05883-18 0006 Reflex control of resistance and capacitance vessels - Cardiopulmonary vagal afferents in the conscious dog
R01HL-05883-18 0007 Reflex control of resistance and capacitance vessels Prostaglandins and skeletal muscle blood flow (dogs)
P01HL-06308-18 0043 Mechanisms and therapy of circulatory disease Exercise and echocardiographic examining techniques (human)
P01HL-08899-14 0031 Tolerance to respiratory gases in health and disease Studies in exercise (human, dogs)
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
P01HL-13108-09 0023 Clinical heart transplantation - Adaptive mechanisms of the denervated heart (human)
P01HL-13480-09 0028 Cardiac electrophysiology - Stress electrocardiography (human, dogs)
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
P01HL-15194-07 0019 Pathophysiology of cardiopulmonary dysfunction Coronary circulation, bypass grafts and diastolic driving pressure (human, dogs)
P01HL-15194-07 0020 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation in arteriographically normal arteries (human)
R01HL-16325-03 Breathing patterns in man
R01HL-18007-05 Neural mechanisms controlling motor act of breathing (cats, human)
R01HL-18492-03 Measurement of regional coronary flow reserve (human, dogs)
R01HL-19343-03 Behavioral influences on cardiac contractility (monkeys)
M R01HL-19451-03 Functional characteristics of the left heart
R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
P01HL-19717-02 0046 Response of the lung to injury - Bioengineering section
R01HL-19844-02 Behavioral control of essential hypertension (human)
R01HL-20328-01 Noninvasive assessment of autonomic cardiac control (dogs)
R01HL-20598-03 The coronary vascular response to ischemia (dogs, pigs)
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
R01HL-22022-01 Respiratory muscle dysfunction in respiratory failure (human)

HEALTH, PHYSICAL FITNESS

** P01HL-10539-12 0031 Pathophysiology of circulation - Post myocardial infarction care--Psychological aspects (human)
P01HL-10539-12 0064 Pathophysiology of circulation - Exercise physiology and pathophysiology (human)
** P01HL-14388-07 0160 Regulation of the circulation in pathological states - Mechanism of the antihypertensive effect of training (rats)
** P01HL-14985-07 0008 Adaptation to hypoxia - Ventilatory drive and exercise capacity (human, dogs)
R01HL-17246-03 Oxygen uptake at one minute of exercise (human)
P50HL-17670-04 0015 Study of ischemic heart disease - Radionuclide studies of myocardial ischemia (human)
** R01HL-18235-03 Cardiovascular fitness and other risk factors (human)
** R01HL-20005-03 Factors in blood pressure levels of children
** R01HL-20662-02 Physical activity, fitness and epidemiology of CHD
R01HL-21126-02 Exercise-induced bronchospasm in children

HEALTH ADMINISTRATION

** P01HL-14388-07 9005 Regulation of the circulation in pathological states - Core administration

HEALTH AND SCIENTIFIC ORGANIZATIONS

P60HL-17265-04 0010 Community blood resource center support - Blood resources educational program

HEALTH AND SCIENTIFIC, ORGANIZATIONS, INTERNATIONAL

SEE ALSO HEALTH AND SCIENTIFIC ORGANIZATIONS, VOLUNTARY HEALTH ORGANIZATIONS, RED CROSS
** R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)

HEALTH AND SCIENTIFIC ORGANIZATIONS, INTERNATIONAL, WHO

R01HL-21039-02 Vascular lesions of diabetes in Oklahoma Indians

HEALTH AND SCIENTIFIC ORGANIZATIONS, VOLUNTARY HEALTH ORGANIZATIONS

** P60HL-15158-07 0027 Comprehensive sickle cell center - Community advisory board--Nancy Cobb house

HEALTH AND SCIENTIFIC ORGANIZATIONS, VOLUNTARY HEALTH ORGANIZATIONS, RED CROSS

** R01HL-13881-08 The American Red Cross National Fractionation Center

HEALTH CARE COSTS-FINANCING

SEE HEALTH ECONOMICS, HEALTH CARE COSTS-FINANCING

HEALTH CARE DELIVERY

SEE HEALTH CARE SERVICES, PATIENT CARE MANAGEMENT

HEALTH CARE FACILITIES (GENERAL)

P01HL-12373-10 0020 Cardiopulmonary physiology and pathophysiology - Hospitalization and patient care
P50HL-14136-07 9002 Pulmonary SCOR--Airways obstructive diseases - Physiology core (human, animal)
P50HL-14136-07 9003 Pulmonary SCOR--Airways obstructive diseases - Pathology core (human, dogs)
P50HL-14136-07 9004 Pulmonary SCOR--Airways obstructive diseases - Radiology core (human)
P60HL-17292-04 0023 Vermont Lung Center - Health information resources
** N01HV-22939-12 Hypertension detection and follow-up program center
N01HV-22945-11 Cooperative hypertension detection and follow-up study (human)

HEALTH CARE FACILITIES, OUTPATIENT FACILITIES

SEE ALSO HOSPITALS, OUTPATIENT FACILITIES
P60HL-15162-07 0001 Comprehensive sickle cell center - Core program--Patient care
P60HL-15168-07 0002 Comprehensive sickle cell disease center - Patient care
** P60HL-15168-07 0006 Comprehensive sickle cell disease center - Core center
** P60HL-15170-05 0006 Support for center for sickle cell anemia - Pediatric services--Comprehensive clinic
P60HL-15996-06 0006 Cincinnati comprehensive sickle cell center - Education
P60HL-15996-06 0007 Cincinnati comprehensive sickle cell center - Screening and counseling
P60HL-15996-06 0008 Cincinnati comprehensive sickle cell center - Patient care (children, adults)
** P60HL-15999-05 0005 Miami comprehensive sickle cell center - Sickle cell clinic
P60HL-17269-04 0039 National heart and blood vessel research and demonstration center - Health care services to patients in neighborhood clinics
R01HL-18805-04 0004 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Clinical follow-up and therapy (human)
P50HL-19157-02 0002 Studies in cystic fibrosis and bronchiolitis - Clinical core
P60HL-20985-01 0001 Northern California sickle cell center - Sickle cell anemia quality assurance program
R01HL-22032-01 Cardiovascular events in hypertensives (human)
R01HL-22567-01 Validation of a cholesterol absorption method in man
N01HV-12435-15 Therapy for hypertension in the general population (human)
** N01HV-53015-09 Establishment of a lipid research clinic (human)

HEALTH CARE FACILITIES, RESIDENTIAL

** P60HL-15158-07 0027 Comprehensive sickle cell center - Community advisory board--Nancy Cobb house

HEALTH CARE FACILITIES (SYSTEMS) AUTOMATED

SEE BIOMEDICAL SYSTEMS AUTOMATED, HEALTH CARE FACILITIES (SYSTEMS) AUTOMATED

HEALTH CARE FACILITIES (SYSTEMS) INFORMATION SYSTEMS

SEE BIOMEDICAL SYSTEMS AUTOMATED, HEALTH CARE FACILITIES (SYSTEMS) INFORMATION SYSTEMS

HEALTH (CARE) PERSONNEL ADJUNCT

SEE HEALTH SCIENCES PROFESSIONS, HEALTH (CARE) PERSONNEL ALLIED

HEALTH CARE PROFESSIONAL PRACTICE, GROUP PRACTICE, HMO

R01HL-22380-01 Detroit hypertension control program

HEALTH CARE QUALITY

SEE ALSO DIAGNOSTIC QUALITY-STANDARDS
SEE ALSO HEALTH SCIENCES PROFESSIONS, HEALTH PERSONNEL PERFORMANCE
SEE ALSO HEALTH SOCIAL CONTROL
P60HL-17269-04 0039 National heart and blood vessel research and demonstration center - Health care services to patients in neighborhood clinics
P60HL-17292-04 0030 Vermont Lung Center - Hospital treatment of pneumonia
R25HL-18406-03 Adherence to hypertensive medical regimens (human)
** P60HL-20985-01 0001 Northern California sickle cell center - Sickle cell anemia quality assurance program

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

HEALTH CARE SERVICES (GENERAL)

SEE ALSO CHILD HEALTH CARE (SERVICES)
SEE ALSO DIAGNOSTIC SERVICES
SEE ALSO FAMILY PLANNING
SEE ALSO HEALTH SERVICES DEMONSTRATION PROJECTS
SEE ALSO MENTAL HEALTH SERVICES

** N01HV-22939-12 Hypertension detection and follow-up program center

HEALTH CARE SERVICES, CASE FINDING AND OUTREACH

SEE ALSO HEALTH CARE SERVICES, REFERRAL AND CONSULTATION

P60HL-15157-07 0003 Comprehensive center for sickle cell disease - Public education
P60HL-15160-07 0017 Center for sickle cell disease - Demonstration--Education, screening, counseling, patient care
P60HL-15162-07 0010 Comprehensive sickle cell center - Core program--Community outreach and education program
R01HL-22212-01 Alameda county high blood pressure control program
R01HL-22380-01 Detroit hypertension control program

HEALTH CARE SERVICES, COMMUNITY HEALTH SERVICES

SEE ALSO SOCIAL SERVICES (GENERAL)

R01HL-11901-12 0001 Effects of metabolic surgery on the hyperlipidemias - Partial ileal bypass (human)
M P60HL-15157-07 Comprehensive center for sickle cell disease
P60HL-15157-07 0001 Comprehensive center for sickle cell disease - Screening program (human)
P60HL-15157-07 0002 Comprehensive center for sickle cell disease - Central data bank and research file
P60HL-15157-07 0003 Comprehensive center for sickle cell disease - Public education
P60HL-15158-07 0027 Comprehensive sickle cell center - Community advisory board--Nancy Cobb house
P60HL-15158-07 0028 Comprehensive sickle cell center - Education
P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies--Dimensions, effectiveness
P60HL-15160-07 0017 Center for sickle cell disease - Demonstration--Education, screening, counseling, patient care
** P60HL-15162-07 0010 Comprehensive sickle cell center - Core program--Community outreach and education program
** P60HL-15168-07 0002 Comprehensive sickle cell disease center - Patient care
** P60HL-15168-07 0003 Comprehensive sickle cell disease center - Sickle cell education and training program
P60HL-15168-07 0006 Comprehensive sickle cell disease center - Core center
P60HL-15169-05 0017 Support for center for sickle cell disease - Study of the natural history of sickle cell disease in the home
** P60HL-15169-05 0021 Support for center for sickle cell disease - Multidisciplinary module system for education, screening and counseling
P60HL-15170-05 0001 Support for center for sickle cell anemia - Adult clinical services
P60HL-15170-05 0003 Support for center for sickle cell anemia - Adult services--Educational programs
** P60HL-15170-05 0023 Support for center for sickle cell anemia - Comprehensive sickle cell clinic
P60HL-15170-05 0030 Support for center for sickle cell anemia - Adult services--Counseling program
** P60HL-15996-06 0005 Cincinnati comprehensive sickle cell center - Factors precipitating crises (human)
P60HL-15996-06 0006 Cincinnati comprehensive sickle cell center - Education
P60HL-15996-06 0007 Cincinnati comprehensive sickle cell center - Screening and counseling
P60HL-15999-05 0004 Miami comprehensive sickle cell center - Education, screening and counseling
** P60HL-16005-05 0001 Comprehensive sickle cell center - Demonstration--Community service component
P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling
** P60HL-17269-04 0039 National heart and blood vessel research and demonstration center - Health care services to patients in neighborhood clinics
** P60HL-17292-04 0018 Vermont Lung Center - Group patient education--Breathing workshop project
P50HL-18323-04 0035 SCOR hypertension center - Control of high blood pressure at the work site
P50HL-19171-02 0005 Pulmonary SCOR--Lung injury by childhood infections - Chronic respiratory disease of children in North Carolina
** P50HL-19190-02 0002 Pulmonary SCOR--Pathophysiology, management of IROS - Core--Demonstration and dissemination
M P60HL-20985-01 Northern California sickle cell center
** P60HL-20985-01 0008 Northern California sickle cell center - Demonstration community program--Patient ambudsman
** P60HL-20985-01 0011 Northern California sickle cell center - SNMA community education program
R18HL-21906-01 Stanford five city multifactor risk reduction study
** R01HL-22212-01 Alameda county high blood pressure control program
R01HL-22380-01 Detroit hypertension control program
R01HL-22802-01 A rural mining community hypertension control project (human)
M P60HL-23282-01 Comprehensive hospital/community sickle cell center
P60HL-23282-01 9001 Comprehensive hospital/community sickle cell center - Core--Institutionalization of education, screening and counseling
** P60HL-23282-01 9002 Comprehensive hospital/community sickle cell center - Core--Model sickle cell service for neighborhood health centers
N01HV-12434-11 Therapy for hypertension in the general population
N01HV-12435-15 Therapy for hypertension in the general population (human)
N01HV-12436-15 Hypertension therapy in the general population (human)
N01HV-12442-14 Therapy for hypertension in the general population (human)
N01HV-82915-01 Therapy for hypertension in the general population (human)

HEALTH CARE SERVICES, HOME CARE

P60HL-15169-05 0017 Support for center for sickle cell disease - Study of the natural history of sickle cell disease in the home
P60HL-15169-05 0021 Support for center for sickle cell disease - Multidisciplinary module system for education, screening and counseling
P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling
R25HL-18414-03 Hypertension--Family strategies for patient adherence
R01HL-19844-02 Behavioral control of essential hypertension (human)
R01HL-19946-03 Reduction of iron overload in thalassemia (children, rabbits, dogs, monkeys)
P60HL-20985-01 0009 Northern California sickle cell center - Patient services (children, adults)
R01HL-21323-02 Raynaud's disease and temperature self-regulation (human)
R01HL-22212-01 Alameda county high blood pressure control program

HEALTH CARE SERVICES, MATERNAL AND INFANT CARE

SEE ALSO HOSPITALS, NURSERY

P60HL-15158-07 0012 Comprehensive sickle cell center - Clinical services--Pediatric patients
P60HL-15162-07 0001 Comprehensive sickle cell center - Core program--Patient care

HEALTH CARE SERVICES, PATIENT CARE

SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, COMPUTER ASSISTED PATIENT CARE

** P01HL-12373-10 0020 Cardiopulmonary physiology and pathophysiology - Hospitalization and patient care
R01HL-17604-03 Wearable blood pressure and ECG recording system
P01HL-21016-02 0017 Sickle cell anemia and other hemoglobinopathies - The hereditary clinic core
N01HR-62934-02 Evaluate continuing education in pulmonary medicine

HEALTH CARE SERVICES, PATIENT CARE, EMERGENCY CARE

SEE ALSO HEART RESUSCITATION
SEE ALSO HOSPITALS, INTENSIVE CARE UNITS
SEE ALSO RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, ARTIFICIAL RESPIRATION

P60HL-15158-07 0012 Comprehensive sickle cell center - Clinical services--Pediatric patients
P60HL-15160-07 0017 Center for sickle cell disease - Demonstration--Education, screening, counseling, patient care
P60HL-15168-07 0002 Comprehensive sickle cell disease center - Patient care
P60HL-15170-05 0001 Support for center for sickle cell anemia - Adult clinical services
P60HL-16008-06 0001 Wayne State University comprehensive sickle cell center - Patient care system (children, adults)
P60HL-17269-04 0036 National heart and blood vessel research and demonstration center - Public education
P60HL-20985-01 0008 Northern California sickle cell center - Demonstration community program--Patient ambudsman
P60HL-20985-01 0009 Northern California sickle cell center - Patient services (children, adults)

HEALTH CARE SERVICES, PATIENT CARE, HOSPITAL PATIENTS

SEE ALSO HOSPITALS, OUTPATIENT FACILITIES

P50HL-14138-05 0014 Center for research on atherosclerosis - Core biostatistics laboratory
P60HL-15996-06 0008 Cincinnati comprehensive sickle cell center - Patient care (children, adults)
** P50HL-17667-04 0038 Study of ischemic heart disease - Clinical core unit
R01HL-22567-01 Validation of a cholesterol absorption method in man

HEALTH CARE SERVICES, PATIENT CARE, POST-HOSPITALIZATION CARE

R01HL-21674-01 Development of automatic implanted defibrillator (dogs, cattle)

HEALTH CARE SERVICES, PATIENT CARE MANAGEMENT

SEE ALSO HEALTH CARE SERVICES, PATIENT CARE PERSONNEL ATTITUDES
SEE ALSO HEALTH CARE SERVICES, PATIENT-PROFESSIONAL RELATIONS

P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
** P01HL-12738-10 0071 Physiologic pharmacology and its clinical applications - IABP patient management in ventricular power failure (human)
P01HL-12738-10 0092 Physiologic pharmacology and its clinical applications - Subendocardial ischemia following open heart surgery (human)
P50HL-14159-08 0024 Specialized center of research in hypertension - Core resources (clinical, animal models)
P50HL-14214-07 0033 Newborn lung center for hyaline membrane disease - Statistical modeling, predictive classification in clinical management of HMD
R25HL-17056-01 Improving patient compliance through nursing action
** P60HL-17269-04 0039 National heart and blood vessel research and demonstration center - Health care services to patients in neighborhood clinics
P60HL-17269-04 0047 National heart and blood vessel research and demonstration center - Evaluation of competency-based educational model
** P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human)
** P50HL-17670-04 0001 Study of ischemic heart disease - Data management
R25HL-18424-03 Blood pressure education in an industrial setting (human)
P50HL-19190-02 0002 Pulmonary SCOR--Pathophysiology, management of IROS - Core--Demonstration and dissemination
R01HL-22212-01 Alameda county high blood pressure control program
** N01HR-72972-01 Self-management for asthmatic children
** N01HV-22945-11 Cooperative hypertension detection and follow-up study (human)
N01HV-53006-06 Evaluation of model VII left ventricular assist device (human)

HEALTH CARE SERVICES, PATIENT CARE MANAGEMENT, COMPREHENSIVE CARE

SEE ALSO HEALTH CARE SERVICES, PATIENT CARE, POST-HOSPITALIZATION CARE
SEE ALSO HEALTH CARE SERVICES, PATIENT CARE MANAGEMENT, PLANNING

M P60HL-15157-07 Comprehensive center for sickle cell disease
M P60HL-15158-07 Comprehensive sickle cell center
** P60HL-15158-07 0011 Comprehensive sickle cell center - Clinical services--Adult patients
** P60HL-15158-07 0012 Comprehensive sickle cell center - Clinical services--Pediatric patients
M P60HL-15160-07 Center for sickle cell disease
** P60HL-15160-07 0017 Center for sickle cell disease - Demonstration--Education, screening, counseling, patient care
M P60HL-15162-07 Comprehensive sickle cell center
** P60HL-15162-07 0001 Comprehensive sickle cell center - Core program--Patient care
P60HL-15162-07 0010 Comprehensive sickle cell center - Core program--Community outreach and education program
M P60HL-15168-07 Comprehensive sickle cell disease center
P60HL-15168-07 0003 Comprehensive sickle cell disease center - Sickle cell education and training program
** P60HL-15168-07 0006 Comprehensive sickle cell disease center - Core center
P60HL-15168-07 0010 Comprehensive sickle cell disease center - Sickle cell center project (children)
P60HL-15169-05 0017 Support for center for sickle cell disease - Study of the natural history of sickle cell disease in the home
M P60HL-15170-05 Support for center for sickle cell anemia
** P60HL-15170-05 0001 Support for center for sickle cell anemia - Adult clinical services
P60HL-15170-05 0002 Support for center for sickle cell anemia - Adult services--Testing programs
** P60HL-15170-05 0006 Support for center for sickle cell anemia - Pediatric services--Comprehensive clinic
** P60HL-15170-05 0023 Support for center for sickle cell anemia - Comprehensive sickle cell clinic
M P60HL-15996-06 Cincinnati comprehensive sickle cell center
P60HL-15996-06 0006 Cincinnati comprehensive sickle cell center - Education
** P60HL-15996-06 0007 Cincinnati comprehensive sickle cell center - Screening and counseling

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** P60HL-15996-06 0008 Cincinnati comprehensive sickle cell center - Patient care (children, adults)
P60HL-15999-05 0004 Miami comprehensive sickle cell center - Education, screening and counseling
** P60HL-15999-05 0005 Miami comprehensive sickle cell center - Sickle cell clinic
P60HL-16005-05 0001 Comprehensive sickle cell center Demonstration--Community service component
** P60HL-16005-05 0018 Comprehensive sickle cell center Comprehensive study-Natural history of sickle cell disease in adults (human)
M P60HL-16008-06 Wayne State University comprehensive sickle cell center
** P60HL-16008-06 0001 Wayne State University comprehensive sickle cell center - Patient care system (children, adults)
P60HL-17292-04 0009 Vermont Lung Center - Controlled clinical trials on a clinical core unit (human)
P50HL-19157-02 0002 Studies in cystic fibrosis and bronchiolitis - Clinical core
** R01HL-20637-02 Recovery after heart surgery--Bio-behavioral factors (human)
M P60HL-20985-01 Northern California sickle cell center
P60HL-20985-01 0008 Northern California sickle cell center - Demonstration community program--Patient ambudsman
** P60HL-20985-01 0009 Northern California sickle cell center - Patient services (children, adults)
** R01HL-22982-01 Multicenter postcoronary risk stratification program (human)
M P60HL-23282-01 Comprehensive hospital/community sickle cell center
** N01HV-12434-11 Therapy for hypertension in the general population
** N01HV-12436-15 Hypertension therapy in the general population (human)
N01HV-12442-14 Therapy for hypertension in the general population (human)
N01HV-53006-06 Evaluation of model VII left ventricular assist device (human)
** N01HV-82915-01 Therapy for hypertension in the general population (human)

HEALTH CARE SERVICES, PATIENT CARE MANAGEMENT, COMPREHENSIVE CARE, FAMILY MEDICINE

SEE ALSO HEALTH CARE SERVICES, HOME CARE
SEE ALSO HEALTH CARE SERVICES, MATERNAL AND INFANT CARE
SEE ALSO PSYCHOTHERAPY, FAMILY THERAPY
** P60HL-15168-07 0002 Comprehensive sickle cell disease center - Patient care
P60HL-15996-06 0008 Cincinnati comprehensive sickle cell center - Patient care (children, adults)
P60HL-17265-04 0001 Community blood resource center support - Demonstration and evaluation

HEALTH CARE SERVICES, PATIENT CARE MANAGEMENT, PLANNING

** P60HL-17292-04 0013 Vermont Lung Center - Regional management of respiratory disease program
** P60HL-17292-04 0030 Vermont Lung Center - Hospital treatment of pneumonia
P50HL-19187-02 0012 Pediatric pulmonary SCOR--Hyaline membrane disease - Resource requirements, economic consequence of HMO and recurrent apnea
R01HL-22380-01 Detroit hypertension control program
P60HL-23282-01 9002 Comprehensive hospital/community sickle cell center - Core--Model sickle cell service for neighborhood health centers
** N01HV-72984-03 High blood pressure control program (human)
** N01HV-72986-02 High blood pressure control program (human)
** N01HV-72987-02 High blood pressure control program (human)
** N01HV-72989-02 High blood pressure control program (human)
** N01HV-72990-00 High blood pressure control program (human)

HEALTH CARE SERVICES, PATIENT CARE PERSONNEL ATTITUDES

P60HL-17292-04 0030 Vermont Lung Center - Hospital treatment of pneumonia

HEALTH CARE SERVICES, PATIENT-PROFESSIONAL RELATIONS

P60HL-15168-07 0003 Comprehensive sickle cell disease center - Sickle cell education and training program
R25HL-17056-01 Improving patient compliance through nursing action
P60HL-17269-04 0039 National heart and blood vessel research and demonstration center - Health care services to patients in neighborhood clinics
P60HL-17269-04 0047 National heart and blood vessel research and demonstration center - Evaluation of competency-based educational model
P60HL-20985-01 0008 Northern California sickle cell center - Demonstration community program--Patient ambudsman

HEALTH CARE SERVICES, PHYSICAL THERAPY

SEE ALSO THERAPY, HYDROTHERAPY
P01HL-10539-12 0031 Pathophysiology of circulation Post myocardial infarction care--Psychological aspects (human)
P01HL-10539-12 0064 Pathophysiology of circulation Exercise physiology and pathophysiology (human)
** R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
R01HL-16292-05 0009 Surgery and non-obstructive coronary insufficiency Exercise and supply demand balance (human)
P60HL-17292-04 0009 Vermont Lung Center - Controlled clinical trials on a clinical core unit (human)
P60HL-17292-04 0018 Vermont Lung Center - Group patient education--Breathing workshop project
R01HL-17578-04 Exercise performance in children with heart disease
R01HL-17993-04 0004 Ventricular dynamics from surgically inserted markers - Exercise training following coronary artery bypass graft surgery (human)
** R01HL-20187-01 Evaluation of exercise cardiac rehabilitation program (40-55 year old men)
R01HL-21578-01 Effect of exercise upon the hypertensive adolescent
** R23HL-21954-01 Exercise conditioning in patients with cystic fibrosis
R01HL-22215-01 Effects of exercise-training in ischemic heart disease (human)
** P60HL-23282-01 0003 Comprehensive hospital/community sickle cell center - Treatment of sickle cell ulcers with physical therapy and vitamin E (human)

HEALTH CARE SERVICES, PHYSICAL THERAPY, ELECTROTHERAPY

R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)

HEALTH CARE SERVICES, REFERRAL AND CONSULTATION

P60HL-15158-07 0009 Comprehensive sickle cell center - Counseling and social services
P60HL-15162-07 0010 Comprehensive sickle cell center - Core program--Community outreach and education program
P60HL-15162-07 0011 Comprehensive sickle cell center - Core program--Genetic counseling and diagnostic screening
P60HL-15168-07 0001 Comprehensive sickle cell disease center - Screening program (human)
P60HL-15168-07 0002 Comprehensive sickle cell disease center - Patient care
P60HL-15168-07 0006 Comprehensive sickle cell disease center - Core center
P60HL-15170-05 0001 Support for center for sickle cell anemia - Adult clinical services
P60HL-15170-05 0023 Support for center for sickle cell anemia - Comprehensive sickle cell clinic
P60HL-15999-05 0004 Miami comprehensive sickle cell center - Education, screening and counseling
P60HL-16005-05 0001 Comprehensive sickle cell center - Demonstration--Community service component
P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling
P60HL-20985-01 0008 Northern California sickle cell center - Demonstration community program--Patient ambudsman
P60HL-20985-01 0009 Northern California sickle cell center - Patient services (children, adults)
R01HL-22212-01 Alameda county high blood pressure control program
R01HL-22380-01 Detroit hypertension control program

HEALTH CARE SERVICES, REHABILITATION NONPSYCHOSOCIAL

SEE ALSO HEALTH CARE SERVICES, REHABILITATION VOCATIONAL
SEE ALSO MENTAL HEALTH SERVICES, REHABILITATION PSYCHOSOCIAL
SEE ALSO OCCUPATIONS, VOCATIONAL GUIDANCE
P60HL-15169-05 0021 Support for center for sickle cell disease - Multidisciplinary module system for education, screening and counseling
P60HL-17292-04 0018 Vermont Lung Center - Group patient education--Breathing workshop project
** R01HL-17993-04 0004 Ventricular dynamics from surgically inserted markers - Exercise training following coronary artery bypass graft surgery (human)

HEALTH CARE SERVICES, REHABILITATION VOCATIONAL

P60HL-15162-07 0001 Comprehensive sickle cell center - Core program--Patient care
P60HL-15170-05 0023 Support for center for sickle cell anemia - Comprehensive sickle cell clinic
P60HL-15996-06 0008 Cincinnati comprehensive sickle cell center - Patient care (children, adults)
P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling

HEALTH CARE SERVICES, SHARED SERVICES

** N01HB-62967-03 Blood banking services on a regional basis

HEALTH CARE (SERVICES)(RESOURCES) ANALYSIS AND EVALUATION

SEE ALSO HEALTH CARE QUALITY
SEE ALSO HEALTH CARE (SERVICES)(RESOURCES) PLANNING
SEE ALSO HEALTH SCIENCES PROFESSIONS, HEALTH PERSONNEL PERFORMANCE
SEE ALSO HEALTH SCIENCES RESEARCH ANALYSIS EVALUATION-PLANNING
P60HL-15160-07 0003 Center for sickle cell disease Genetic counseling in hemoglobinopathies Dimensions, effectiveness
P60HL-15996-06 0009 Cincinnati comprehensive sickle cell center Insurance coverage of persons with sickle cell trait and disease
P60HL-16005-05 0001 Comprehensive sickle cell center Demonstration--Community service component
P60HL-16008-06 0001 Wayne State University comprehensive sickle cell center Patient care system (children, adults)
** P60HL-17265-04 0001 Community blood resource center support Demonstration and evaluation
** P60HL-17269-04 0039 National heart and blood vessel research and demonstration center - Health care services to patients in neighborhood clinics
P60HL-17292-04 0013 Vermont Lung Center Regional management of respiratory disease program
P60HL-17292-04 0023 Vermont Lung Center - Health information resources
P50HL-17670-04 0001 Study of ischemic heart disease - Data management
** P50HL-19187-02 0012 Pediatric pulmonary SCOR--Hyaline membrane disease Resource requirements, economic consequence of HMO and recurrent apnea
** P60HL-20985-01 0001 Northern California sickle cell center - Sickle cell anemia quality assurance program
R01HL-22212-01 Alameda county high blood pressure control program
** R01HL-22380-01 Detroit hypertension control program
N01HV-72984-03 High blood pressure control program (human)
N01HV-72986-02 High blood pressure control program (human)
N01HV-72987-02 High blood pressure control program (human)
N01HV-72989-02 High blood pressure control program (human)
N01HV-72990-00 High blood pressure control program (human)

HEALTH CARE (SERVICES)(RESOURCES) PLANNING

P60HL-17292-04 0023 Vermont Lung Center - Health information resources
** R01HL-17993-04 0010 Ventricular dynamics from surgically inserted markers - Postoperative cardiovascular visualization (human)

HEALTH CARE (SERVICES)(RESOURCES) PLANNING, COMPREHENSIVE

R01HL-22802-01 A rural mining community hypertension control project (human)

HEALTH CARE (SERVICES)(RESOURCES)PLANNING, REGIONAL MEDICAL PLANNING

N01HB-62967-03 Blood banking services on a regional basis
P01HL-09011-15 0017 A research and resource program in blood - Operations research laboratory
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
M P60HL-17265-04 Community blood resource center support
M P60HL-17292-04 Vermont Lung Center
P60HL-17292-04 0009 Vermont Lung Center - Controlled clinical trials on a clinical core unit (human)
** P60HL-17292-04 0013 Vermont Lung Center - Regional management of respiratory disease program
** P60HL-17292-04 0030 Vermont Lung Center - Hospital treatment of pneumonia
** P60HL-17292-04 0031 Vermont Lung Center - Regional respiratory computer network
R01HL-22380-01 Detroit hypertension control program

HEALTH CARE (SERVICES)(RESOURCES) UTILIZATION

SEE ALSO HOSPITALS UTILIZATION
** P50HL-14236-05 0013 Prevention of premature arteriosclerosis - Patient compliance
P60HL-16005-05 0001 Comprehensive sickle cell center - Demonstration--Community service component
** P60HL-17269-04 0039 National heart and blood vessel research and demonstration center - Health care services to patients in neighborhood clinics
** R01HL-18175-03 Drug taking for hypertension in a rural community
N01HR-72974-01 Self-management systems for asthmatic children

HEALTH CARE (SERVICES)(RESOURCES) UTILIZATION, APPOINTMENTS-VISITS

R25HL-18406-03 Adherence to hypertensive medical regimens (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R25HL-18414-03 Hypertension--Family strategies for patient adherence
R25HL-18418-03 Role of a supporting partner in adherence (human)
R25HL-18424-03 Blood pressure education in an industrial setting (human)

HEALTH CARE (SERVICES)(RESOURCES) UTILIZATION, AVAILABILITY AND DISTRIBUTION OF SERVICES AND RESOURCES
P60HL-17269-04 0039 National heart and blood vessel research and demonstration center - Health care services to patients in neighborhood clinics
P50HL-19187-02 0012 Pediatric pulmonary SCOR--Hyaline membrane disease - Resource requirements, economic consequence of HMO and recurrent apnea

HEALTH ECONOMICS
** P50HL-19187-02 0012 Pediatric pulmonary SCOR--Hyaline membrane disease - Resource requirements, economic consequence of HMO and recurrent apnea

HEALTH ECONOMICS, FUND RAISING
P60HL-15158-07 0027 Comprehensive sickle cell center - Community advisory board--Nancy Cobb house

HEALTH ECONOMICS, HEALTH CARE COSTS-FINANCING
SEE ALSO HEALTH CARE (SERVICES)(RESOURCES) PLANNING, COMPREHENSIVE
SEE ALSO HEALTH INSURANCE
P60HL-17269-04 0039 National heart and blood vessel research and demonstration center - Health care services to patients in neighborhood clinics
P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
R25HL-18424-03 Blood pressure education in an industrial setting (human)
P50HL-19187-02 0012 Pediatric pulmonary SCOR--Hyaline membrane disease - Resource requirements, economic consequence of HMD and recurrent apnea
** N01HV-82913-00 Demonstration programs in hypertension control in the work setting (human)

HEALTH ECONOMICS, HEALTH CARE COSTS-FINANCING, MEDICAL INDIGENCY
P60HL-20985-01 0008 Northern California sickle cell center - Demonstration community program--Patient ambudsman

HEALTH EDUCATION
SEE EDUCATION, HEALTH EDUCATION

HEALTH FACILITIES (SYSTEMS) AUTOMATED
SEE BIOMEDICAL SYSTEMS AUTOMATED, HEALTH CARE FACILITIES (SYSTEMS) AUTOMATED

HEALTH HAZARDS, ENVIRONMENTAL
SEE ENVIRONMENTAL HEALTH, CONTAMINATION (GENERAL)

HEALTH INSURANCE
SEE ALSO HEALTH ECONOMICS, HEALTH CARE COSTS-FINANCING
** P60HL-15996-06 0009 Cincinnati comprehensive sickle cell center - Insurance coverage of persons with sickle cell trait and disease

HEALTH MAINTENANCE ORGANIZATIONS
SEE HEALTH CARE PROFESSIONAL PRACTICE, GROUP PRACTICE, HMO

HEALTH OCCUPATIONS EDUCATION
SEE EDUCATION, HEALTH OCCUPATIONS

HEALTH PERSONNEL PERFORMANCE
SEE HEALTH SCIENCES PROFESSIONS, HEALTH PERSONNEL PERFORMANCE

HEALTH RECORD SYSTEMS, PATIENT (DISEASE) REGISTRIES
R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
P01HL-06835-17 0048 Cardiovascular disease - Aldosterone producing adenoma prediction of curability (human)
P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
R01HL-13974-07 Ventricular premature beats and sudden coronary death (human)
P50HL-14138-05 0014 Center for research on atherosclerosis - Core biostatistics laboratory
P50HL-14159-08 0023 Specialized center of research in hypertension - Core computation
P50HL-14214-07 0033 Newborn lung center for hyaline membrane disease - Statistical modeling, predictive classification in clinical management of HMD
P50HL-14214-07 0036 Newborn lung center for hyaline membrane disease - Core--Biomedical engineering
P50HL-14218-07 0012 Pulmonary SCOR--Newborn lung center - Longitudinal study of ROS--On-line fetal and neonatal monitoring (human)
P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
P60HL-15157-07 0002 Comprehensive center for sickle cell disease - Central data bank and research file
P60HL-15160-07 0009 Center for sickle cell disease - Natural history of sickle cell disease (human)
P60HL-15169-05 0017 Support for center for sickle cell disease - Study of the natural history of sickle cell disease in the home
P50HL-15389-07 0010 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical study--Pulmonary lesions due to non-invasive aspergillosis
P60HL-15996-06 0008 Cincinnati comprehensive sickle cell center - Patient care (children, adults)
P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)
P60HL-16008-06 0012 Wayne State University comprehensive sickle cell center - Central data management--Computer system
R01HL-16461-05 Late results of valve replacement--Computer analysis (human)
P60HL-17269-04 0039 National heart and blood vessel research and demonstration center - Health care services to patients in neighborhood clinics
P50HL-17651-04 0033 Ischemic heart disease specialized center of research - Core facilities--Computer sciences
P50HL-17651-04 0034 Ischemic heart disease specialized center of research - Core facilities--Oata management
P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
P50HL-17667-04 0038 Study of ischemic heart disease - Clinical core unit
P50HL-17667-04 0039 Study of ischemic heart disease - Core human investigative laboratories
P50HL-17667-04 0041 Study of ischemic heart disease - Biophysical sciences core--Data collection and retrieval
P50HL-17667-04 0042 Study of ischemic heart disease - Core--Central instrumentation and software
P50HL-17670-04 0001 Study of ischemic heart disease - Data management
P50HL-18323-04 0034 SCOR hypertension center - Core--Data management
R01HL-18794-04 Prospective studies of conduction disease (human)
R01HL-18805-04 0001 Sudden cardiac death and the onset of myocardial infarction - Predictive value of maximum exercise stress testing (human)
R01HL-18805-04 0004 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Clinical follow-up and therapy (human)
R01HL-18808-04 0001 Prediction and prevention of sudden cardiac death - Prognostic significance of premature ventricular contractions (human)
P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-19864-03 Blood pressure of children and young adults
R01HL-20637-02 Recovery after heart surgery--Bio-behavioral factors (human)
R01HL-21971-01 Atherosclerotic disease and risk factors in twins (human)
R18HL-22934-01 Behavorial approaches to adolescent hypertension
N01HV-12160-15 Establishment of a lipid research clinic
N01HV-32974-09 Collaborative studies on coronary artery surgery (human)
N01HV-62900-00 Study of breast cancer and reserpine use (human)

HEALTH RECORDS
P01HL-11310-12 0067 Mechanisms of cardiovascular disease - Cardiac performance with measured homodynamic variables (human)
P60HL-20985-01 0001 Northern California sickle cell center - Sickle cell anemia quality assurance program
N01HR-32900-09 Pilot study to standardize the measurement of 'closing volume' (human)
N01HV-52971-06 Reexamination of Framingham heart study cohort
N01HV-53010-03 NAS-NRC twin registry

HEALTH RECORDS, CASE HISTORY
P60HL-15160-07 0009 Center for sickle cell disease - Natural history of sickle cell disease (human)
P60HL-16008-06 0009 Wayne State University comprehensive sickle cell center - Natural history of sickle cell anemia (human)
R01HL-22378-01 Psyco-somatic predictors of CHO in adolescence (human)
N01HR-72973-01 Health education and attitudes of family toward asthmatic children
N01HV-42902-08 Epidemiological studies of coronary heart disease (human)

HEALTH RECORDS (SYSTEMS) AUTOMATED
R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
P01HL-09011-15 0017 A research and resource program in blood - Operations research laboratory
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
P50HL-14138-05 0014 Center for research on atherosclerosis - Core biostatistics laboratory
P50HL-14159-08 0023 Specialized center of research in hypertension - Core computation
P50HL-14214-07 0036 Newborn lung center for hyaline membrane disease - Core--Biomedical engineering
P50HL-14218-07 0012 Pulmonary SCOR--Newborn lung center - Longitudinal study of RDS--On-line fetal and neonatal monitoring (human)
R01HL-15047-06 Oigital computer analysis of the electrocardiogram (human)
** P60HL-15157-07 0002 Comprehensive center for sickle cell disease - Central data bank and research file
P60HL-15160-07 0009 Center for sickle cell disease - Natural history of sickle cell disease (human)
P60HL-16005-05 0018 Comprehensive sickle cell center - Comprehensive study--Natural history of sickle cell disease in adults (human)
P60HL-16008-06 0012 Wayne State University comprehensive sickle cell center - Central data management--Computer system
** R01HL-16461-05 Late results of valve replacement--Computer analysis (human)
P60HL-17269-04 0027 National heart and blood vessel research and demonstration center - Non-invasive evaluation of cardiac function--Ischemic heart disease (human, dog)
P50HL-17651-04 0034 Ischemic heart disease specialized center of research - Core facilities--Oata management
** P50HL-17665-04 0018 Study of ischemic heart disease - Computer correlation of data--Patients with ischemic heart disease
P50HL-17665-04 0030 Study of ischemic heart disease - Oata management
** P50HL-17670-04 0001 Study of ischemic heart disease - Data management
** P50HL-17682-04 0009 Study of ischemic heart disease - Computer core unit
P50HL-18318-03 0001 Pathogenesis and complications of hypertension - Core clinical program
P50HL-18323-04 0035 SCOR hypertension center - Control of high blood pressure at the work site
R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
R01HL-18805-04 0001 Sudden cardiac death and the onset of myocardial infarction - Predictive value of maximum exercise stress testing (human)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
R01HL-21088-02 Genetic patterns in deaths from MI and stroke in Utah

HEALTH RESOURCES-SERVICES PLANNING
SEE HEALTH CARE (SERVICES)(RESOURCES) PLANNING

HEALTH RESOURCES-SERVICES UTILIZATION
SEE HEALTH CARE (SERVICES)(RESOURCES) UTILIZATION

HEALTH SCIENCES MANPOWER
SEE HEALTH SCIENCES PROFESSIONS, HEALTH SCIENCES MANPOWER

HEALTH SCIENCES MANPOWER DATA AND REGISTRIES
SEE HEALTH SCIENCES PROFESSIONS, HEALTH SCIENCES MANPOWER DATA AND REGISTRIES

HEALTH SCIENCES PROFESSIONS, HEALTH (CARE) PERSONNEL ALLIED
SEE ALSO EDUCATION, HEALTH OCCUPATIONS, ALLIED
SEE ALSO MENTAL HEALTH PERSONNEL AOJUNCT
R25HL-18414-03 Hypertension--Family strategies for patient adherence
R01HL-22212-01 Alameda county high blood pressure control program
P60HL-23282-01 9001 Comprehensive hospital/community sickle cell center - Core--Institutionalization of education, screening and counseling

HEALTH SCIENCES PROFESSIONS, HEALTH PERSONNEL PERFORMANCE
P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies--Dimensions, effectiveness
R25HL-17056-01 Improving patient compliance through nursing action
P60HL-17292-04 0030 Vermont Lung Center - Hospital treatment of pneumonia
P60HL-23282-01 9001 Comprehensive hospital/community sickle cell center - Core--Institutionalization of education, screening and counseling

HEALTH SCIENCES PROFESSIONS, HEALTH SCIENCES MANPOWER
SEE ALSO RESEARCH MANPOWER REVIEW COMMITTEE
N01HV-53008-07 Left ventricular assist device--Clinical evaluation (human)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

HEALTH SCIENCES PROFESSIONS, HEALTH SCIENCES MANPOWER DATA AND REGISTRIES

** R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)

HEALTH SCIENCES PROFESSIONS, NURSE PRACTITIONERS

P60HL-15999-05 0005 Miami comprehensive sickle cell center - Sickle cell clinic
P60HL-16008-06 0001 Wayne State University comprehensive sickle cell center - Patient care system (children, adults)
R01HL-22212-01 Alameda county high blood pressure control program

HEALTH SCIENCES PROFESSIONS, NURSES

SEE ALSO EDUCATION, HEALTH OCCUPATIONS, NURSING
R25HL-17056-01 Improving patient compliance through nursing action

HEALTH SCIENCES PROFESSIONS, PHYSICIANS

SEE ALSO EDUCATION, HEALTH OCCUPATIONS, MEDICAL
P60HL-17269-04 0047 National heart and blood vessel research and demonstration center - Evaluation of competency-based educational model
** N01HR-62934-02 Evaluate continuing education in pulmonary medicine

HEALTH SCIENCES PROFESSIONS EDUCATION

SEE EDUCATION, HEALTH OCCUPATIONS

HEALTH SCIENCES RESEARCH (GENERAL)*

N01HB-42971-12 Chimpanzees for hepatitis research
P01HL-04664-18 0005 Cardiovascular and lung dynamics - Applications of current research, equipment and techniques
R01HL-08696-15 0018 Orthotopic heart transplantation - Training in cardiac transplantation
** R01HL-10880-13 Purification of human erythropoietin for research use
** P01HL-14985-07 0016 Adaptation to hypoxia - Administrative core
P01HL-18575-03 0009 Mechanisms of vascular changes in hypertension - Administrative core
** P01HL-19737-02 0015 Cellular and molecular aspects of respiratory physiology - Administrative core unit
P01HL-20993-02 0013 Population dynamics of arterial cells in atherogenesis - Administration--Core
P01HL-21016-02 0019 Sickle cell anemia and other hemoglobinopathies - Administration core
** N01HV-22915-11 Establishment of lipid research clinic
** N01HV-22916-16 Establishment of a lipid research clinic
** N01HV-62957-05 Coordinating center model for NHLI clinical trials

HEALTH SCIENCES RESEARCH ANALYSIS-EVALUATION-PLANNING

SEE ALSO HEALTH CARE (SERVICES)(RESOURCES) ANALYSIS AND EVALUATION
N01HB-72982-03 Statistical coordinating center for sickle cell disease
P50HL-17667-04 0044 Study of ischemic heart disease - Core--Data management and analysis

HEALTH SERVICES DEMONSTRATION PROJECTS

M P60HL-15157-07 Comprehensive center for sickle cell disease
M P60HL-15160-07 Center for sickle cell disease
** P60HL-15160-07 0017 Center for sickle cell disease - Demonstration--Education, screening, counseling, patient care
M P60HL-15162-07 Comprehensive sickle cell center
M P60HL-15168-07 Comprehensive sickle cell disease center
M P60HL-15996-06 Cincinnati comprehensive sickle cell center
** P60HL-16005-05 0001 Comprehensive sickle cell center - Demonstration--Community service component
** P60HL-17265-04 0001 Community blood resource center support - Demonstration and evaluation
M P60HL-17269-04 National heart and blood vessel research and demonstration center
M P60HL-17292-04 Vermont Lung Center
** P60HL-20985-01 0008 Northern California sickle cell center - Demonstration community program--Patient ambudsman
** R18HL-21906-01 Stanford five city multifactor risk reduction study
** R01HL-22380-01 Detroit hypertension control program
** P60HL-23282-01 9001 Comprehensive hospital/community sickle cell center - Core--Institutionalization of education, screening and counseling
** P60HL-23282-01 9002 Comprehensive hospital/community sickle cell center - Core--Model sickle cell service for neighborhood health centers
** N01HV-82913-00 Demonstration programs in hypertension control in the work setting (human)

HEALTH SOCIAL CONTROL

SEE ALSO HEALTH CARE QUALITY
N01HB-62967-03 Blood banking services on a regional basis
P01HL-09011-15 0022 A research and resource program in blood - Cryopreservation of blood components (human)

HEALTH SURVEYS

SEE POPULATION SURVEYS, HEALTH SURVEYS

HEARING DISORDERS

SEE EAR DISORDERS, HEARING DISORDERS

HEART

SEE ALSO CARDIOVASCULAR AGENTS, CARDIOTONIC AND CARDIOPROTECTIVE DRUGS (GENERAL)
SEE ALSO CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST
P01HL-06312-17 0052 Surgical cardiology - Assay of metabolic variables of rat heart
** R01HL-09364-14 Ion transport by heart mitochondria (cattle, rat, rabbit)
** R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
** P01HL-11310-12 0102 Mechanisms of cardiovascular disease - Cardiac membrane and ion mobility (dogs)
R01HL-13035-08 Heart mitochondrial malate dehydrogenase regulation
P01HL-14388-07 0155 Regulation of the circulation in pathological states - Cardiopulmonary afferent activity, carotid chemo-baroreceptor reflexes
R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
** R01HL-14706-07 Fetal hearts in organ culture (mice)
R01HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin
R01HL-16577-04 Lipoprotein lipase chemistry and function (rats, cattle, human)
R01HL-17404-05 Immunologic mechanisms in heart disease (mice)
R01HL-17559-03 Structural elucidation of heart cytochrome-C oxidase
P50HL-17682-04 0023 Study of ischemic heart disease - Core cell and organ culture laboratory (mice)
R01HL-17826-04 Oxygen delivery to tissue (rat, dog)
R01HL-18038-03 Structure and function of heart mitochondria (cattle)
R01HL-18199-03 Effects of ions on vascular reactivity
R01HL-18272-03 Heart adenyl cyclase complex (beef heart)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
R01HL-18705-03 Regulation of plasma triglyceride metabolism (rats)
** R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
P01HL-20984-02 9002 Cellular mechanisms in cardiac hypertrophy - The heart in organ culture
** R01HL-21172-02 Regional oxygen consumption of heart and other organs (animals)
** R01HL-22136-02 Histamine and cardiac adenyl cyclase
R01HL-22265-02 Isozymes of heart glutamate aspartate transaminase (swine, ducks)
** R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)
** R23HL-22959-01 Heart development in inherited cardiomyopathy (hamsters)

HEART, ATRIA

R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
** P01HL-06835-17 0043 Cardiovascular disease - Left atrial receptor activity by the sympathetic nervous system (dogs)
P01HL-08682-15 0016 Regulation of the cardiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)
P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation of renal function (dogs)
P01HL-11307-12 9002 Biophysical studies in pediatric cardiology - Biomedical engineering
** P01HL-11310-12 0060 Mechanisms of cardiovascular disease - Effect of left atrium on the circulation--Simulation
P01HL-11310-12 0089 Mechanisms of cardiovascular disease - Structure and function in myocardial contraction (dogs)
** R01HL-12486-10 Structure-function correlation in the atrium (rabbits)
** R01HL-13623-08 Atrial receptors (dogs)
R01HL-13920-07 Expanding the role of surgery of atrial dysrhythmias (dogs)
P01HL-14388-07 0213 Regulation of the circulation in pathological states - Regulation of the heart and peripheral circulation in heart failure
P01HL-14388-07 0218 Regulation of the circulation in pathological states - Regional myocardial dyskinesis--Cause assessment and reduction (dogs)
** P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
R01HL-15694-06 Pulmonary factors in circulatory regulation
P50HL-17648-04 0018 Study of ischemic heart disease - Myocardial damage--Infarction vectors recalled by premature atrial stimulation
P50HL-17648-04 0028 Study of ischemic heart disease - Electrophysiology of sympathetic innervation in tissue culture
P50HL-17651-04 0023 Ischemic heart disease specialized center of research - Development of multipurpose catheter for monitoring and electronic pacing
** R01HL-19423-03 Catecholamine action on the heart (cats, rats)
** R01HL-19995-02 Sensory transduction in cardiac mechanoreceptors (cats, frogs, rats)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
R01HL-20864-01 Postnatal maturation of cardiovascular regulatory system (minipig)
** R01HL-21145-02 Response of atria to hyperosmolality - Mechanisms (rabbits)
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
R01HL-22050-01 Organization of succinic oxidase in heart
** R23HL-22245-02 Functional characteristics of atrial receptors (rats)

HEART, CONDUCTION SYSTEM

SEE ALSO HEART DISORDERS, ARRHYTHMIA, HEART BLOCK
SEE ALSO HEART DISORDERS DIAGNOSIS, ELECTROCARDIOGRAPHY*
SEE ALSO HEART FUNCTION, HEART RHYTHM
SEE ALSO NERVOUS SYSTEM AUTONOMIC, HEART INNERVATION
R01HL-05694-20 Functional pathology of cardiovascular disease (human)
** R01HL-05883-18 0004 Reflex control of resistance and capacitance vessels - Left ventricular receptors with nonmedullated vagal afferents (cats)
P01HL-06285-18 0153 Cardiovascular-respiratory physiology and biochemistry - Myocardial mechanics and pharmacology in isolated papillary muscle (animals)
P01HL-06285-18 0212 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gap junction (bovine)
P01HL-06308-18 0039 Mechanisms and therapy of circulatory disease - ANS in regulation of electrophysiology--Role of cyclic nulceotides (animals)
** R01HL-07047-16 Comparative study of cardiac conduction system (human, birds, mammals)
R01HL-07605-16 Congenital heart disease research program (human, dogs)
** R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
M P01HL-08682-15 Regulation of the cardiovascular system
P01HL-08682-15 0011 Regulation of the cardiovascular system - Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels)
** P01HL-08682-15 0016 Regulation of the cardiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)
P01HL-08682-15 0017 Regulation of the cardiovascular system - Neurally induced cardiac dysrhythmias (dog)
P01HL-08682-15 0018 Regulation of the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)
R01HL-10417-12 Multiple systems in electrocardiography (human)
P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
R01HL-10951-11 Neural control of the heart (dogs, rats)
** P01HL-11307-12 0002 Biophysical studies in pediatric cardiology - Cardiac extracellular electrophysiology (human, dog, chimpanzee)
** P01HL-11310-12 0075 Mechanisms of cardiovascular disease - Bipolar atrial electrograms from Bachmann's bundle (dogs)
** P01HL-11310-12 0090 Mechanisms of cardiovascular disease - Clinicopathological cardiovascular correlation (human, animals)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
** R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
R01HL-13349-06 Analysis of activation process in heart muscle (guinea pigs, rabbits, human)
R01HL-13920-07 Expanding the role of surgery of atrial dysrhythmias (dogs)
** R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
** P50HL-17648-04 0016 Study of ischemic heart disease - Intraventricular conduction--Effect of pacing on conduction and automaticity
P50HL-17651-04 0022 Ischemic heart disease specialized center of research - Electrophysiology--Mechanism and pharmacology of arrhythmias (human, dog)
P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
** P50HL-17667-04 0031 Study of ischemic heart disease - Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey)
P50HL-17669-04 0013 Ischemic heart disease center (SCOR) - Exercise in patients with ischemic heart disease

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-17670-04 0008 Study of ischemic heart disease - Surgical treatment of cardiac rhythm disorders (human, dogs)
P50HL-17670-04 0016 Study of ischemic heart disease - Core pathology laboratory (human, dogs, monkeys)
P50HL-17682-04 0012 Study of ischemic heart disease - Pathology core laboratory (human)
R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
** R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
R01HL-18517-03 Intrinsic innervation of the heart (dogs)
** R01HL-18794-04 Prospective studies of conduction disease (human)
** R01HL-19639-02 Permeability transients of carriers, channels and heart
** R01HL-20077-02 External cardiac stimulation with microwave radiation (dogs)
R01HL-20230-02 Analysis of the action potential of cardiac muscle (sheep)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL-21922-01 Transient currents induced by strophanthidin in the heart
R01HL-22226-01 Autonomic nervous elements in the developing heart (rabbits)
R01HL-22562-02 Mechanism of cardiac action potential propagation (tunicates)
R01HL-23726-01 Treatment of ventricular arrhythmias with propranolol (human)

HEART, CONDUCTION SYSTEM, ATRIOVENTRICULAR NODE

P01HL-08682-15 0015 Regulation of the cardiovascular system - Projection of autonomic nerves onto the heart (dog)
P01HL-08682-15 0016 Regulation of the cardiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)
P01HL-08682-15 0017 Regulation of the cardiovascular system - Neurally induced cardiac dysrhythmias (dog)
** R01HL-10951-11 Neural control of the heart (dogs, rats)
P01HL-11310-12 0074 Mechanisms of cardiovascular disease - Electrophysiological studies of paraxysmal atrial tachycardia (human)
P01HL-11310-12 0077 Mechanisms of cardiovascular disease - Abnormalities of rhythm and conduction following heart surgery (human)
** P01HL-11310-12 0079 Mechanisms of cardiovascular disease - Electrophysiological studies of complete heart block (human)
** P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
P01HL-11310-12 0090 Mechanisms of cardiovascular disease - Clinicopathological cardiovascular correlation (human, animals)
R01HL-12486-10 Structure-function correlation in the atrium (rabbits)
P01HL-12738-10 0127 Physiologic pharmacology and its clinical applications - Cardiac electrical activity (human, animals)
** P01HL-12738-10 0128 Physiologic pharmacology and its clinical applications - Recording electrograms from specialized cardiac tissues (human, dogs)
** P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
P01HL-13108-09 0018 Clinical heart transplantation - Electrophysiologic studies of cardiac drugs in the denervated heart
R01HL-13920-07 Expanding the role of surgery of atrial dysrhythmias (dogs)
R01HL-19487-03 Cardiac actions of digitalis (dogs, cats)
R01HL-19768-02 Recording and analysis of low levels cardiac signals (human, dogs)
R01HL-20328-01 Noninvasive assessment of autonomic cardiac control (dogs)
** R01HL-21574-01 Automaticity of AV node and its adjacent tissues (dogs)
** R01HL-22484-01 Neural control of cardiac conduction and excitation (dogs)

HEART, CONDUCTION SYSTEM, BUNDLE OF HIS

P01HL-11310-12 0090 Mechanisms of cardiovascular disease - Clinicopathological cardiovascular correlation (human, animals)
P01HL-12738-10 0127 Physiologic pharmacology and its clinical applications - Cardiac electrical activity (human, animals)
** P01HL-12738-10 0128 Physiologic pharmacology and its clinical applications - Recording electrograms from specialized cardiac tissues (human, dogs)
R01HL-13920-07 Expanding the role of surgery of atrial dysrhythmias (dogs)
P50HL-17648-04 0016 Study of ischemic heart disease - Intraventricular conduction--Effect of pacing on conduction and automaticity
** R01HL-18538-03 The role of electrotonus in His-Purkinje function (dog)
** R01HL-19768-02 Recording and analysis of low levels cardiac signals (human, dogs)
R01HL-21574-01 Automaticity of AV node and its adjacent tissues (dogs)
R01HL-23599-01 Mechanisms of ischemic rhythm disorders (dogs)

HEART, CONDUCTION SYSTEM, HEART PACEMAKERS

SEE ALSO HEART PACEMAKERS ELECTRONIC
** P01HL-08682-15 0016 Regulation of the cardiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)
P01HL-08682-15 0017 Regulation of the cardiovascular system - Neurally induced cardiac dysrhythmias (dog)
** R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
R01HL 13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
** R01HL-13920-07 Expanding the role of surgery of atrial dysrhythmias (dogs)
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
R01HL-15740-06 In vitro studies on heart cell function (rats)
R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
** R01HL-17370-03 Synaptic chemistry and cardioregulation in Limulus
** R01HL-17451-05 Digitalis effects on cardiac automaticity mechanisms
** R01HL-17452-04 Depolarization induced cardiac automaticity (human, animals)
P50HL-17648-04 0016 Study of ischemic heart disease - Intraventricular conduction--Effect of pacing on conduction and automaticity
** R01HL-17993-04 0006 Ventricular dynamics from surgically inserted markers - Atrial pacing in transplant patients
R01HL-18053-03 Intracellular ionic activities in heart muscle (frogs)
R01HL-18538-03 The role of electrotonus in His-Purkinje function (dog)
R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
** R01HL-19216-03 Characterization of cardiac pacemaker activity (cat, dog, rabbit)
R01HL-20077-02 External cardiac stimulation with microwave radiation (dogs)
R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)
R01HL-21527-01 Prospective study of bundle branch block (human)
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
** R01HL-22235-01 Mechanism of cardiac pacemaking (rabbits)
** R01HL-22274-01 Quantitating in series effects in cardiac arrhythmias (dogs)
** R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)

HEART, CONDUCTION SYSTEM, PURKINJE FIBERS

R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
** P01HL-06285-18 0212 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gap junction (bovine)
R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
P01HL-08682-15 0031 Regulation of the cardiovascular system - Cardiac electrophysiology in hibernation (ground squirrel, marmot)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
** R01HL-12486-10 Structure-function correlation in the atrium (rabbits)
** P01HL-12738-10 0044 Physiologic pharmacology and its clinical applications - Cardioactive drugs and electrophysiological properties of cardiac cells (sheep)
P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
P01HL-12738-10 0110 Physiologic pharmacology and its clinical applications - Physiology and pharmacology of arrhythmias (dogs)
R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
R01HL-14614-07 Voltage control of contraction in heart (sheep)
** P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
R01HL-17452-04 Depolarization induced cardiac automaticity (human, animals)
** P50HL-17648-04 0014 Study of ischemic heart disease - Antidysrhythmic drugs and mammalian cardiac Purkinje fibers (sheep, dog)
P50HL-17667-04 0031 Study of ischemic heart disease - Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey)
R01HL-18053-03 Intracellular ionic activities in heart muscle (frogs)
** R01HL-18538-03 The role of electrotonus in His-Purkinje function (dog)
R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
R01HL-19044-03 Effect of drugs on development of cardiac failure (cats)
** R01HL-19216-03 Characterization of cardiac pacemaker activity (cat, dog, rabbit)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
** R01HL-20230-02 Analysis of the action potential of cardiac muscle (sheep)
R01HL-20273-02 Cardiac fiber direction and the QRS complex (dogs)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
** P01HL-20592-02 0004 Cell biology of cardiac and skeletal muscle - Excitation, conduction and contraction--Modelling in Purkinje fibers
R01HL-20749-01 Developing heart--Biophysical aspects (sheep)
** R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)
R23HL-21151-02 Ischemic myocardium--Delivery of blood flow and drugs (dogs)
** R01HL-21294-02 Voltage clamp of isolated cardiac Purkinje cells (dogs)
R23HL-21368-02 Perinatal cardiac electrophysiology (dogs)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
R01HL-21922-01 Transient currents induced by strophanthidin in the heart
R01HL-23599-01 Mechanisms of ischemic rhythm disorders (dogs)
** R01HL-23624-01 Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs)

HEART, CONDUCTION SYSTEM, SINO-ATRIAL NODE

P01HL-08682-15 0016 Regulation of the cardiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)
P01HL-11310-12 0077 Mechanisms of cardiovascular disease - Abnormalities of rhythm and conduction following heart surgery (human)
P01HL-11310-12 0079 Mechanisms of cardiovascular disease - Electrophysiological studies of complete heart block (human)
** P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
P01HL-11310-12 0090 Mechanisms of cardiovascular disease - Clinicopathological cardiovascular correlation (human, animals)
R01HL-12486-10 Structure-function correlation in the atrium (rabbits)
** P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
P01HL-12738-10 0110 Physiologic pharmacology and its clinical applications - Physiology and pharmacology of arrhythmias (dogs)
R01HL-13920-07 Expanding the role of surgery of atrial dysrhythmias (dogs)
** R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
R01HL-15758-06 Catecholamine release in the heart (dogs)
R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
P50HL-17648-04 0016 Study of ischemic heart disease - Intraventricular conduction--Effect of pacing on conduction and automaticity
P50HL-17651-04 0022 Ischemic heart disease specialized center of research - Electrophysiology--Mechanism and pharmacology of arrhythmias (human, dog)
P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
P50HL-17667-04 0031 Study of ischemic heart disease - Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey)
R01HL-18794-04 Prospective studies of conduction disease (human)
** R01HL-19009-03 Morphometric analysis of the sinoatrial node (ferret)
R01HL-19076-03 Vagal control of heart rate--A biophysical model (rabbits)
** R01HL-19216-03 Characterization of cardiac pacemaker activity (cat, dog, rabbit)
R01HL-20077-02 External cardiac stimulation with microwave radiation (dogs)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-20328-01 Noninvasive assessment of autonomic cardiac control (dogs)
R01HL-21145-02 Response of atria to hyperosmolality Mechanisms (rabbits)
R23HL-21368-02 Perinatal cardiac electrophysiology (dogs)
** R01HL-22235-01 Mechanism of cardiac pacemaking (rabbits)
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
** R01HL-22484-01 Neural control of cardiac conduction and excitation (dogs)
R01HL-22546-02 Baroreceptor reflex mechanisms in man

HEART, ENDOCARDIUM

** P01HL-06285-18 0143 Cardiovascular-respiratory physiology and biochemistry - Myocardial ischemia (human, dogs, lambs)
P01HL-10539-12 0068 Pathophysiology of circulation - Acute and chronic cardiomyopathies (mice, dogs, hamsters, human)
P01HL-12738-10 0092 Physiologic pharmacology and its clinical applications - Subendocardial ischemia following open heart surgery (human)
** P01HL-13108-09 0003 Clinical heart transplantation - Endomyocardial biopsy pathology
P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Dynamics of ischemic heart disease (human, dog)
P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)
R01HL-18468-03 The distribution of flow in the myocardium (dog, pig)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R01HL-19995-02 Sensory transduction in cardiac mechanoreceptors (cats, frogs, rats)
R23HL-21253-01 Anatomical models in computer-aided image analysis

HEART, FORAMEN OVALE EMBRYONIC

P01HL-06285-18 0126 Cardiovascular-respiratory physiology and biochemistry - Ventricular output, foramen ovale and ductus arteriosus flows (lambs)

HEART, MYOCARDIUM

R01HL-01813-25 Regulation of metabolism by drugs and hormones (rats)
R01HL-02953-17 Autonomic and cardiovascular pharmacology (rats, rabbits, dogs, guinea pigs)
** P01HL-03174-23 0007 Mechanisms of acute vascular reaction to injury - Healing of injured myocardium--Basal lamina scaffold (human, rats, dogs)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
R01HL-05883-18 0008 Reflex control of resistance and capacitance vessels - Oxygen consumption of the chronically denervated dog heart
** R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
P01HL-06285-18 0131 Cardiovascular-respiratory physiology and biochemistry - Fetal heart development and ventricular outflow obstruction (lambs)
** P01HL-06285-18 0156 Cardiovascular-respiratory physiology and biochemistry - Myocardial performance following revascularization (human)
** P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
P01HL-06285-18 0179 Cardiovascular-respiratory physiology and biochemistry - Regulation of myocardial cell growth (rats, chick embryo)
P01HL-06296-18 0007 Cardiovascular and pulmonary adaptation to stress - Cardiovascular control during isometric exercise (cats)
** P01HL-06308-18 0042 Mechanisms and therapy of circulatory disease - Echocardiographic assessment of arrhythmias--Myocardial tissue type (human, dogs)
** P01HL-06312-17 0033 Surgical cardiology - Studies in cryopreservations (rats)
** P01HL-06312-17 0034 Surgical cardiology - Metabolic factors in cardiac function--Creatine phosphate depletion (animals)
** P01HL-06312-17 0044 Surgical cardiology - The limits of topical cardiac hypothermia with ice chips (rats)
** P01HL-06312-17 0047 Surgical cardiology - Myocardial extravascular water (dogs)
** P01HL-06312-17 0051 Surgical cardiology - Diuretic therapy on myocardial electrolyte composition and water content (human)
** R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
R01HL-08311-14 Effects of drugs upon myocardial hypoxia (dogs, turtles)
P01HL-08682-15 0006 Regulation of the cardiovascular system - Cardiovascular studies of mammalian hibernators (sciuromorpha)
P01HL-08682-15 0031 Regulation of the cardiovascular system - Cardiac electrophysiology in hibernation (ground squirrel, marmot)
** P01HL-08682-15 0036 Regulation of the cardiovascular system - Electrolyte transport in myocardium with hemorrhagic shock (rats)
P01HL-08805-15 0050 Regulation of ventilation and pulmonary circulation Right ventricular mechanics (dogs)
** R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
** R01HL-09283-14 Pharmacology of molluscan hearts (also rabbits)
** R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
P01HL-10539-12 0067 Pathophysiology of circulation - Mechanical, electrophysiological studies--Isolated heart muscle (dog, rat)
P01HL-10539-12 0070 Pathophysiology of circulation - Effects of hypertension on myocardial blood flow after coronary occlusion (dogs)
** P01HL-11310-12 0062 Mechanisms of cardiovascular disease - Myocardial depressant factor in postoperative cardiac dysfunction (human, dogs)
** P01HL-11310-12 0085 Mechanisms of cardiovascular disease - Mechanics of isolated cardiac muscle (animals)
** P01HL-11310-12 0086 Mechanisms of cardiovascular disease - Mechanics of the intact left ventricle (dogs)
** P01HL-11310-12 0089 Mechanisms of cardiovascular disease - Structure and function in myocardial contraction (dogs)
M P01HL-11351-12 Cellular and molecular mechanisms of myocardial function
** P01HL-11351-12 0003 Cellular and molecular mechanisms of myocardial function - Mechanical and electrical properties of cardiac muscle (rabbits)
** P01HL-11351-12 0009 Cellular and molecular mechanisms of myocardial function - Myocardial membrane surface coat (rats, rabbits)
** R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)
P01HL-12157-11 0037 Functions and mechanisms of cell membrane ion transport - Developing structure of heart cells in tissue culture
** P01HL-12157-11 0052 Functions and mechanisms of cell membrane ion transport - Active electrical properties of the synthetic strand
** P01HL-12157-11 0054 Functions and mechanisms of cell membrane ion transport - Simulation of electrogenic ion transport in cardiac muscle
P01HL-12157-11 0056 Functions and mechanisms of cell membrane ion transport - Isotopic fluxes in synthetic strands of heart cells (chick embryo)
** P01HL-12157-11 0057 Functions and mechanisms of cell membrane ion transport - Electrophysiological investigations of synthetic strands of heart muscles (rats)
R01HL-12186-09 Calcium transients in striated muscle and other cells (mammals, frogs)
P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Determinants of performance of the whole heart (dogs)
** P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
P01HL-12738-10 0069 Physiologic pharmacology and its clinical applications - Blood rheology in coronary heart disease (dogs)
** P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
** P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications - Myocardial cells in tissue culture (rats, chick embryo)
R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
** R01HL-13028-09 Regulation of myocardial fatty acid metabolism (rats)
R01HL-13029-09 Metabolic regulation of sugar transport (pigeons, rats)
** R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
** R01HL-13349-06 Analysis of activation process in heart muscle (guinea pigs, rabbits, human)
** R01HL-13630-08 Control of glycogen synthesis in heart (cattle)
** R01HL-13715-08 Myocardial adenyl cyclase (rats)
** P01HL-13737-07 0024 Assisted circulation - Dynamic prosthetic myocardium (dogs)
** R01HL-13831-08 Factors regulating embryonic cardiac morphogenesis (chick, salamandra)
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
** R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
R01HL-14148-07 0009 The regional circulations - Myocardial circulation in hypertension and atherosclerosis (human)
P50HL-14236-05 0002 Prevention of premature arteriosclerosis Myocardial blood flow in patients with coronary artherosclerosis
** P01HL-14388-07 0161 Regulation of the circulation in pathological states Heterogeneity of left ventricular perfusion in awake dogs
** P01HL-14388-07 0162 Regulation of the circulation in pathological states Phasic coronary flow and myocardial perfusion in aortic regurgitation (dogs)
** P01HL-14388-07 0168 Regulation of the circulation in pathological states - Ionic basis of depolarization (rats, tissue culture)
** P01HL-14388-07 0172 Regulation of the circulation in pathological states - cAMP-dependent protein kinase from heart and vascular smooth muscle (guinea pigs)
** P01HL-14388-07 0175 Regulation of the circulation in pathological states - Functional studies of selected proteins from cardiac muscle
** P01HL-14388-07 0221 Regulation of the circulation in pathological states - Experimental myocardial infarction (dogs)
** P01HL-14414-07 0010 Environmental influences on cardiorespiratory and cellular functions - Pressure effects on cardiac electrical phenomena (animals)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
** R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)
** R01HL-14938-06 Contractile proteins of heart muscle (dogs, rabbits)
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-15679-06 Heart and smooth muscle contractile protein (swine, cattle, rabbits, chickens)
** R01HL-15692-07 Force and speed in skeletal and cardiac muscle
R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
** P01HL-15835-06 0002 Study of muscles related to heart disease - Proteins of smooth muscle system (cattle, rabbits)
P01HL-15835-06 0006 Study of muscles related to heart disease - Ultrastructural and chemical studies of muscle (animals)
** P01HL-15835-06 0007 Study of muscles related to heart disease - Structure and function of Limulus striated and cardiac muscle
** P01HL-15835-06 0009 Study of muscles related to heart disease - Aspects of cardiac and skeletal myogenesis (chick embryo)
P01HL-15835-06 0010 Study of muscles related to heart disease - Muscle structure and reaction to injury (mice, rats)
P01HL-15835-06 0011 Study of muscles related to heart disease - Energetics and mechanism of muscle contraction (frogs, rabbits)
P01HL-15835-06 0013 Study of muscles related to heart disease - Cardiac bioenergetics (rats)
P01HL-15835-06 0019 Study of muscles related to heart disease - Vascular smooth muscle--Electron microscopy, excitation contraction (animal)
P01HL-15835-06 0021 Study of muscles related to heart disease - Fast kinetic studies in muscle subcellular organelles (animals)
** P01HL-15835-06 0023 Study of muscles related to heart disease - Cellular basis of the Frank-Starling curve (frogs, rats)
P01HL-15835-06 0025 Study of muscles related to heart disease - Cellular biology of vascular smooth muscle (guinea pig)
** R01HL-15888-05 Comparative stereology of the myocardium (birds, mammals)
** R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
** R01HL-15991-05 Evaluation of heart stimulants in sea anemones
R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
** R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
P01HL-16251-06 0002 Membrane-bound enzymes in heart and other tissues - Structural basis of regulation of cardiac succinate dehydrogenase
R01HL-16420-02 Effect of training-detraining on the rat heart
** R01HL-16507-04 Heart cell interactions and cell junction biogenesis (mice, rats, rabbits)
R01HL-16637-04 Development and regression of cardiac hypertrophy (rats)
** R01HL-16678-03 Fluorescent probe studies of heart muscle proteins (rabbit, dog)
M P01HL-16683-04 Function and growth of cardiac and skeletal muscle

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-16683-04 0001 Function and growth of cardiac and skeletal muscle - Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)
** P01HL-16683-04 0003 Function and growth of cardiac and skeletal muscle - Movements of S-1 moieties in muscle fibers
** P01HL-16683-04 0006 Function and growth of cardiac and skeletal muscle - Chemical studies of the contractile system--Development of new reagents
** R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
P60HL-17269-04 0019 National heart and blood vessel research and demonstration center - Sarcoplasmic reticulum (dog, rabbit, hamster, cat)
P60HL-17269-04 0020 National heart and blood vessel research and demonstration center - Nucleic acid and protein metabolism in growth and development of heart (rat)
** R01HL-17376-04 Analysis of Z bands in heart by optical diffraction (mammals)
** R01HL-17452-04 Depolarization induced cardiac automaticity (human, animals)
P50HL-17646-04 0004 Study of ischemic heart disease - Core experimental animal laboratories
P50HL-17648-04 0004 Study of ischemic heart disease - Radionuclide imaging studies (human, pig)
** P50HL-17648-04 0025 Study of ischemic heart disease - Destruction and repair of cardiac muscle cell constituents (rat)
P50HL-17651-04 0016 Ischemic heart disease specialized center of research - Retroperfusion of coronary venus circulation with therapeutic agents (dogs)
P50HL-17655-04 0010 Study of ischemic heart disease - Core facility--Cardiovascular pathology (human, animal)
P50HL-17665-04 0029 Study of ischemic heart disease - Myocardial protein synthesis and degradation in low oxygen states (rabbit, dog)
** P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
P50HL-17670-04 0022 Study of ischemic heart disease - Myocardial metabolism in hypoxia and recover (rabbit, toad, dog)
** R01HL-17702-04 Electro-optical dyes as probes of heart excitability
R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
** R01HL-17799-02 The presence and significance of heart acetylcholine (cats)
R01HL-17809-04 Effects of exercise on the coronary vasculature (rat, dog)
R01HL-17859-04 Computational methods in cardiac fluid dynamics
R01HL-17976-18 Chemical agents and heart glycolytic enzymes (sheep)
R01HL-17993-04 0006 Ventricular dynamics from surgically inserted markers - Atrial pacing in transplant patients
** R01HL-18053-03 Intracellular ionic activities in heart muscle (frogs)
** R01HL-18089-04 Fatty acid metabolism in heart and its regulation (swine, rats)
** R01HL-18176-02 Effect of thyroid hormone on cultured cardiac cells (rats)
R01HL-18179-03 Heart, platelet, and muscle myosins and actomyosins (cattle)
** R01HL-18304-03 FT-infrared spectroscopy of heart muscle energetics (cattle)
R01HL-18468-03 The distribution of flow in the myocardium (dog, pig)
R01HL-18538-03 The role of electrotonus in His-Purkinje function (dog)
R01HL-18598-03 Role of Na, K-ATPase inhibition on digitalis action
** R01HL-18629-04 Influence of aging and hypertension on the myocardium (rats)
R01HL-18631-03 Ultrastructural correlates of myocardial ischemia (rats, swine)
** R01HL-18676-03 Myocardial sarcomere mechanics (rat)
R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
R01HL-18798-04 0002 Nervous and ionic factors in sudden cardiac death - Electron microprobe, ultrastructure analysis of ischemic myocardium (dog, rabbit)
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
** R01HL-19000-03 Irreversible myocardial injury (rats)
R01HL-19008-02 Carbon dioxide diffusion in lung and muscle tissues (dogs)
R01HL-19044-03 Effect of drugs on development of cardiac failure (cats)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
R01HL-19139-03 Dispersion of diffusible indicators in the body (human, cats, dogs)
** R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
** R01HL-19299-03 Myoglobin and oxygen supply to heart and muscle cells (rats, pigeons)
R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
** R01HL-19648-03 Myocardial protein degradation (dogs, rabbits)
R01HL-19653-03 Circulatory system effects of angiotensin analogs (rats)
** P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
R01HL-20132-03 Histogenesis and biochemistry of embryonic lung (birds)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
** R01HL-20230-02 Analysis of the action potential of cardiac muscle (sheep)
R01HL-20253-02 Effects of exercise on the heart and its blood supply (dogs)
R01HL-20273-02 Cardiac fiber direction and the QRS complex (dogs)
** R01HL-20308-02 Regulation of myocardial acylcarnitine transport (rats)
** R01HL-20388-03 Regulation of protein turnover in diabetic heart (rat)
** R01HL-20464-01 Regulation of cardiac and skeletal muscle contraction (mammals)
** R01HL-20544-02 Integrated regulation of myocardial energy metabolism (rats, guinea pigs)
P01HL-20552-02 0001 The development and regression of cardiac hypertrophy - Biochemical events in cardiac hypertrophy (rats)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
P01HL-20592-02 0001 Cell biology of cardiac and skeletal muscle - Molecular mechanism of muscle contraction (animals)
P01HL-20592-02 0011 Cell biology of cardiac and skeletal muscle - Myosin and cytochrome oxidase messenger RNAs (chicken)
P01HL-20592-02 0012 Cell biology of cardiac and skeletal muscle - Contractile properties of skinned muscle fibers (frogs)
** R01HL-20613-02 Mechanical properties of isolated myocardium
** R01HL-20658-01 Myocardial energy transport--Creative kinase (human, cattle, dog)
R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
** R01HL-20749-01 Developing heart--Biophysical aspects (sheep)
R01HL-20754-02 Anesthetic-induced myocardial depression (rabbits)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R01HL-20793-02 Phospholipids and cardiac receptor function
R01HL-20895-03 0002 Cineangiographic studies of cardiovascular system - Coronary disease--Regional myocardial blood flow (human, dog)
P01HL-20984-02 0003 Cellular mechanisms in cardiac hypertrophy - Fast-kinetics of myosin ATPase from normal and hypertrophied heart (rabbits)
R23HL-21051-02 Adrenergic receptors and the adenylate cyclase system (frog RBC)
R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)
** R23HL-21151-02 Ischemic myocardium--Delivery of blood flow and drugs (dogs)
R01HL-21172-02 Regional oxygen consumption of heart and other organs (animals)
R01HL-21195-02 Innervation of the heart--Acetylcholine receptors (frogs)
R23HL-21196-02 Digitalis induced arrhythmia and NAO KO-atpase activity (dogs)
** R23HL-21262-02 Sodium-calcium interactions in mammalian myocardium (rabbits, cats)
** R01HL-21312-01 Sarcomere mechanics in disrupted ventricular muscle (guinea pigs)
R23HL-21327-02 Molecular mechanisms of chemical myocardiopathies (rats)
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
** R01HL-21371-02 Energy loss microanalysis of myocardial cations
** R01HL-21381-02 Amino acid metabolism in normal and hypoxic myocardium (rabbits)
R01HL-21471-02 Structure-function studies on actin and myosin (human, protozoa, rabbits, cattle)
** R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
R01HL-21786-01 Long-term effects of myocardial protection (dogs, rats)
** R01HL-21922-01 Transient currents induced by strophanthidin in the heart
** R01HL-21970-01 Myofibrillar assembly and breakdown in cardiac muscle (rats)
** R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
R01HL-22136-02 Histamine and cardiac adenyl cyclase
R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
R01HL-22226-01 Autonomic nervous elements in the developing heart (rabbits)
** R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
** R01HL-22290-01 Cardiac energy metabolism and protein synthesis (mice)
R01HL-22315-01 Intraoperative cardiac oxygen supply-demand (dogs, rabbits, rats)
** R01HL-22329-01 Active prosthetic myocardium--Effects on LV function (dogs)
** R01HL-22401-01 Regulation of tension and active state in the heart
R01HL-22461-01 Cardiac tropomyosin and tropomyosin-action interactions (rabbit)
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
** R01HL-22522-01 Cardioselectivity of beta-adrenoceptor antagonists
R01HL-22538-01 Myosin as a multi-enzyme complex (dogs, rabbits)
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
** P01HL-22619-01 0007 Cellular mechanisms of heart failure - Regulation of contractile protein levels in heart muscle (rats)
** P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
R01HL-22651-01 Control of protein metabolism in heart muscle
R01HL-22664-01 Regulation of myocardial cell growth (rats, guinea pigs)
** R01HL-22685-01 Drugs and excitation-contraction coupling in heart (animals)
R01HL-22759-01 Regional myocardial blood flow during hypothermia (dogs)
** R01HL-22767-01 Model system for cardiac action potentials (squid, axons)
** R01HL-22859-01 Effect of carbon monoxide on the developing heart (rats)
R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis
R01HL-22894-01 Two dimensional ultrasound and cardiac surgery (human, dogs)
** R01HL-22917-01 Microvascular pressures in the intact beating heart (rabbits)
** R13HL-23072-01 Gordon Research Conference--Cardiac and skeletal muscle (New Hampshire)
R01HL-23183-01 Voltage dependent conductance in membranes
** R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)

HEART, MYOCARDIUM INTERCALATED DISCS

R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
** P01HL-16117-05 0001 Ion movements and membranes in cardiovascular control - Developmental studies of contractile cell junctions (rats, rabbits, elasmobranch)
P50HL-17669-04 0002 Ischemic heart disease center (SCOR) - Myocardial infarction sizing by radioimmunoassay of cardiac myosin (dogs)
R01HL-18629-04 Influence of aging and hypertension on the myocardium (rats)
R01HL-18631-03 Ultrastructural correlates of myocardial ischemia (rats, swine)
** P01HL-20592-02 0006 Cell biology of cardiac and skeletal muscle - Permeability and ultrastructure of cardiac nexuses (rabbits, cattle, rats)
P01HL-20984-02 0004 Cellular mechanisms in cardiac hypertrophy - Myofibril accumulation in cardiac and vascular muscle cells in hypertrophy

HEART, PAPILLARY MUSCLES

P01HL-06285-18 0153 Cardiovascular-respiratory physiology and biochemistry - Myocardial mechanics and pharmacology in isolated papillary muscle (animals)
P01HL-08682-15 0031 Regulation of the cardiovascular system - Cardiac electrophysiology in hibernation (ground squirrel, marmot)
R01HL-12486-10 Structure-function correlation in the atrium (rabbits)
P01HL-12738-10 0109 Physiologic pharmacology and its clinical applications - Effects of calcium blockers on skeletal and cardiac muscle (cats)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
P60HL-17269-04 0021 National heart and blood vessel research and demonstration center - Growth and development of heart--Ultrastructure (dog, guinea pig, rat, cat)
P50HL-17646-04 0004 Study of ischemic heart disease - Core experimental animal laboratories
P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-17665-04 0029 Study of ischemic heart disease Myocardial protein synthesis and degradation in low oxygen states (rabbit, dog)
P50HL-17669-04 0007 Ischemic heart disease center (SCOR) - Relationship between myocardial depression and compliance (dogs, cats)
P50HL-17669-04 0022 Ischemic heart disease center (SCOR) - Pathological studies of human and experimental ischemic heart disease
P50HL-17670-04 0022 Study of ischemic heart disease - Myocardial metabolism in hypoxia and recover (rabbit, toad, dog)
P50HL-17670-04 0023 Study of ischemic heart disease - Energy metabolism in acute myocardial ischemic injury (dogs)
** R01HL-19133-03 Contractile and elastic properties of cardiac muscle (cats)
** R01HL-19423-03 Catecholamine action on the heart (cats, rats)
** R01HL-19460-03 Mechanics of the papillary muscle and the left ventricle (cats, rabbits)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
R01HL-20184-02 Desensitization of tracheal muscle to isoproterenol (rats, rabbits)
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
P01HL-20592-02 0003 Cell biology of cardiac and skeletal muscle - Cellular magnesium and anion activities in ion-specific microelectrodes (frogs)
R01HL-20613-02 Mechanical properties of isolated myocardium
R23HL-21234-02 The regulation of cardiac hypertrophy (rabbits)
R01HL-21381-02 Amino acid metabolism in normal and hypoxic myocardium (rabbits)
R01HL-21570-01 The mechanical basis of myocardial energetics (cats)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
R01HL-22269-01 Excitation-contraction coupling in enlarged hearts (rabbits)
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)
R01HL-23161-01 0004 Biology of myocardial ischemia - Structure of myofibrils and membranes in early ischemia (dogs, rabbit, rodents)

HEART, SEPTUM

P01HL-11351-12 0013 Cellular and molecular mechanisms of myocardial function - Ion exchange in the perfused septum high-resolution technique (rabbits, rats)

HEART, VALVES

SEE ALSO HEART DISORDERS, VALVULAR
R01HL-14785-07 Ultrasonic scattering for tissue characterization (dogs, cattle, human)
** R01HL-18593-03 Characterization of heart valve collagen (human, pig)
R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
R01HL-21985-01 Videoroentgenography in congenital heart disease

HEART, VALVES, AORTIC VALVE

P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
** R01HL-16935-05 Tissue organization and turnover in the semilunar valve (dogs, rats)
P50HL-17665-04 0020 Study of ischemic heart disease - Ischemic injury to myocardium during measured states of ischemia (human)
** R01HL-17969-04 Function and structure of semilunar valves (dogs)
** R01HL-20829-02 Fluid mechanics of heart valve prostheses (dogs, human)

HEART, VALVES, MITRAL VALVE

R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
** P01HL-12738-10 0080 Physiologic pharmacology and its clinical applications - Electrophysiology of cardiac muscle in the mitral valve (monkeys)
** P01HL-12738-10 0127 Physiologic pharmacology and its clinical applications - Cardiac electrical activity (human, animals)
R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)

HEART, VALVES, PULMONARY VALVE

R01HL-17969-04 Function and structure of semilunar valves (dogs)

HEART, VALVES, TRICUSPID VALVE

P01HL-13330-08 0031 Mechanical circulatory support - Hemodynamics of cardiac prosthesis
R01HL-13803-07 Advanced cardiac valvular and vascular prosthesis (dogs, baboons)

HEART, VENTRICLES

R01HL-05883-18 0004 Reflex control of resistance and capacitance vessels Left ventricular receptors with nonmedullated vagal afferents (cats)
P01HL-06285-18 0126 Cardiovascular-respiratory physiology and biochemistry Ventricular output, foramen ovale and ductus arteriosus flows (lambs)
P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry Therapeutic alterations, contractile state in heart failure
P01HL-06285-18 0156 Cardiovascular-respiratory physiology and biochemistry Myocardial performance following revascularization (human)
** P01HL-06285-18 0157 Cardiovascular-respiratory physiology and biochemistry Left ventricle outflow impedance analysis (human)
** P01HL-06285-18 0158 Cardiovascular-respiratory physiology and biochemistry Load on myocardial contractility (dogs)
P01HL-06285-18 0179 Cardiovascular-respiratory physiology and biochemistry - Regulation of myocardial cell growth (rats, chick embryo)
** P01HL-06312-17 0030 Surgical cardiology - Total artificial heart (calves)
** P01HL-06312-17 0040 Surgical cardiology - Left ventricle assist (dogs)
** P01HL-06312-17 0041 Surgical cardiology - A servomechanism for left ventricular assist (human, dogs, sheep)
** P01HL-06312-17 0042 Surgical cardiology - Right ventricular assist device (sheep)
** P01HL-06312-17 0043 Surgical cardiology - The cylindrical ventricular assist device (dogs)
P01HL-06312-17 0044 Surgical cardiology - The limits of topical cardiac hypothermia with ice chips (rats)
** P01HL-08805-15 0050 Regulation of ventilation and pulmonary circulation - Right ventricular mechanics (dogs)
P01HL-10436-13 0006 A multidisciplinary study of congenital heart disease - Ventricular blood pumps and valves (human, cattle)
P01HL-10539-12 0067 Pathophysiology of circulation - Mechanical, electrophysiological studies--Isolated heart muscle (dog, rat)
** P01HL-10539-12 0069 Pathophysiology of circulation - Ventricular compliance and mechanics in intact ventricles (human)
P01HL-11310-12 0089 Mechanisms of cardiovascular disease - Structure and function in myocardial contraction (dogs)
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
R01HL-12774-08 Ionic coupling in activation of cardiac muscle (frogs, guinea pigs)
R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
R01HL-13426-09 Left ventricular bypass for myocardial infarction (cattle, human)
** P01HL-14388-07 0161 Regulation of the circulation in pathological states - Heterogeneity of left ventricular perfusion in awake dogs
** P01HL-14388-07 0213 Regulation of the circulation in pathological states - Regulation of the heart and peripheral circulation in heart failure
** P01HL-14388-07 0214 Regulation of the circulation in pathological states - Deformation pattern and stress analysis of the left ventricle
** P01HL-14388-07 0215 Regulation of the circulation in pathological states - Left ventricle model in pathophysiologic states
P01HL-14388-07 0218 Regulation of the circulation in pathological states - Regional myocardial dyskinesis--Cause assessment and reduction (dogs)
** R01HL-14651-05 Mechanical behavior of left ventricle (dogs, rats)
R01HL-14938-06 Contractile proteins of heart muscle (dogs, rabbits)
R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
** R01HL-16484-04 Radiographic ventriculometry for coronary heart disease (human)
P60HL-17269-04 0021 National heart and blood vessel research and demonstration center - Growth and development of heart--Ultrastructure (dog, guinea pig, rat, cat)
P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Dynamics of ischemic heart disease (human, dog)
P60HL-17269-04 0032 National heart and blood vessel research and demonstration center - Clinical circulatory assist device fabrication
P50HL-17646-04 0002 Study of ischemic heart disease - Core data management
P50HL-17646-04 0010 Study of ischemic heart disease - Compliance in ischemic myocardium--Altered cardiac performance (human, dogs)
P50HL-17646-04 0015 Study of ischemic heart disease Protecting ischemic myocardium in patients with evolving myocardial infarction
** P50HL-17648-04 0006 Study of ischemic heart disease Ventricular performance and myocardial perfusion in obstructive coronary disease
P50HL-17648-04 0021 Study of ischemic heart disease Biventricular contractile responses to acute myocardial infarction (mammals)
P50HL-17648-04 0028 Study of ischemic heart disease Electrophysiology of sympathetic innervation in tissue culture
P50HL-17648-04 0031 Study of ischemic heart disease Ultrastructural consequences of myocardial ischemia (rat)
P50HL-17651-04 0022 Ischemic heart disease specialized center of research Electrophysiology Mechanism and pharmacology of arrhythmias (human, dog)
P50HL-17651-04 0023 Ischemic heart disease specialized center of research Development of multipurpose catheter for monitoring and electronic pacing
P50HL-17655-04 0001 Study of ischemic heart disease Intravenous nitroglycerin--Ventricular function and infarct size (human, dog)
P50HL-17665-04 0005 Study of ischemic heart disease Evaluation of zone of jeopardized myocardium in patients with angina pectoris
P50HL-17665-04 0012 Study of ischemic heart disease - Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog
P50HL-17665-04 0020 Study of ischemic heart disease - Ischemic injury to myocardium during measured states of ischemia (human)
** P50HL-17665-04 0022 Study of ischemic heart disease - Effect of coronary revascularization on left ventricular function (human)
P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human)
P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
P50HL-17669-04 0007 Ischemic heart disease center (SCOR) - Relationship between myocardial depression and compliance (dogs, cats)
P50HL-17669-04 0008 Ischemic heart disease center (SCOR) - Segmental ventricular dysfunction during stress-induced ischemia (dog, human)
** P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
P50HL-17670-04 0014 Study of ischemic heart disease - Real time ultrasound imaging in ischemic heart disease (human, dog)
P50HL-17670-04 0020 Study of ischemic heart disease - Radionuclide evaluation of coronary artery disease (human, dog)
P50HL-17682-04 0001 Study of ischemic heart disease - Studies in acute and chronic ischemic heart disease (human)
P50HL-17682-04 0003 Study of ischemic heart disease - Effects of myocardial revascularization in man
P50HL-17682-04 0013 Study of ischemic heart disease - Chronic ischemic heart disease--Myocardial function and metabolism (dogs, swine)
P50HL-17682-04 0014 Study of ischemic heart disease - Myocardial ischemia--Instrumentation and technique (dogs, baboons)
P50HL-17682-04 0020 Study of ischemic heart disease - Nucleotide and nucleoside metabolism in ischemic myocardium
M R01HL-17993-04 Ventricular dynamics from surgically inserted markers
R01HL-17993-04 0001 Ventricular dynamics from surgically inserted markers - Effects of aortocoronary bypass graft surgery on ventricular function (human)
R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
R01HL-17993-04 0004 Ventricular dynamics from surgically inserted markers - Exercise training following coronary artery bypass graft surgery (human)
R01HL-17993-04 0006 Ventricular dynamics from surgically inserted markers - Atrial pacing in transplant patients
R01HL-17993-04 0007 Ventricular dynamics from surgically inserted markers - Digitalis after coronary artery surgery (human)
** R01HL-17993-04 0009 Ventricular dynamics from surgically inserted markers - Cardiovascular visualization in surgery of growing heart (dogs)
R01HL-17993-04 0010 Ventricular dynamics from surgically inserted markers - Postoperative cardiovascular visualization (human)
R01HL-18053-03 Intracellular ionic activities in heart muscle (frogs)
R01HL-18538-03 The role of electrotonus in His-Purkinje function (dog)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-18683-03 Left ventricle function in aortic regurgitation (human)
R01HL-18805-04 0005 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Radionuclide studies (human)
R01HL-18900-03 Intercellular factors in function of cardiac cells
R01HL-18933-03 Energy output and efficiency of left ventricle (dog)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
** R01HL-19460-03 Mechanics of the papillary muscle and the left ventricle (cats, rabbits)
** R01HL-20037-02 Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
R01HL-20674-02 Evaluation of cardiac function with radioactive tracers
R23HL-21196-02 Digitalis induced arrhythmia and NAO KO-atpase activity (dogs)
** R23HL-21197-02 Right ventricular contraction and relaxation (dogs)
R23HL-21203-02 Effect of vasoactive agents on left-to-right shunts (lambs)
** R01HL-21312-01 Sarcomere mechanics in disrupted ventricular muscle (guinea pigs)
** R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
** R01HL-21785-01 Left ventricular wall motion analysis
R01HL-21985-01 Videoroentgenography in congenital heart disease
** R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
** R01HL-22329-01 Active prosthetic myocardium--Effects on LV function (dogs)
R23HL-22787-01 Cardiac volume by biplane echocardiography (human)
R01HL-22894-01 Two dimensional ultrasound and cardiac surgery (human, dogs)
** R01HL-23624-01 Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs)
R01HL-23994-01 Biochemical properties of human cardiac myosin

HEART ARREST

SEE HEART DISORDERS, HEART ARREST

HEART BLOCK

SEE HEART DISORDERS, ARRHYTHMIA, HEART BLOCK

HEART BYPASS (SHUNT) EXTRACARDIAC ABNORMAL

SEE CONGENITAL ABNORMALITIES, CARDIOVASCULAR SHUNTS ABNORMAL

HEART BYPASS (SHUNT) INTRACARDIAC ABNORMAL

SEE CONGENITAL ABNORMALITIES, HEART SEPTAL DEFECTS

HEART BYPASS SURGICAL, PARTIAL OR TOTAL

SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART BYPASS SURGICAL

HEART CATHETERIZATION

SEE HEART DISORDERS DIAGNOSIS, HEART CATHETERIZATION*

HEART CELLS

R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
P01HL-06285-18 0164 Cardiovascular-respiratory physiology and biochemistry - CPK MB isoenzyme concentration to quantify infarct size (human, animals)
P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)
** P01HL-06285-18 0179 Cardiovascular-respiratory physiology and biochemistry - Regulation of myocardial cell growth (rats, chick embryo)
R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
** R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
** P01HL-11351-12 0005 Cellular and molecular mechanisms of myocardial function - Electrophysiology of cardiac muscle (rats)
P01HL-11351-12 0009 Cellular and molecular mechanisms of myocardial function - Myocardial membrane surface coat (rats, rabbits)
P01HL-11351-12 0011 Cellular and molecular mechanisms of myocardial function - Comparative contractile tissue studies (animals)
P01HL-11351-12 0018 Cellular and molecular mechanisms of myocardial function - Quantitative localization of electrolytes in cardiac tissue
** P01HL-12157-11 0037 Functions and mechanisms of cell membrane ion transport - Developing structure of heart cells in tissue culture
** P01HL-12157-11 0055 Functions and mechanisms of cell membrane ion transport - Growth and development of synthetic strand heart cells in culture (chick embryo)
** P01HL-12157-11 0056 Functions and mechanisms of cell membrane ion transport - Isotopic fluxes in synthetic strands of heart cells (chick embryo)
R01HL-12486-10 Structure-function correlation in the atrium (rabbits)
** P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications - Myocardial cells in tissue culture (rats, chick embryo)
P01HL-14388-07 0168 Regulation of the circulation in pathological states - Ionic basis of depolarization (rats, tissue culture)
** R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
R01HL-14990-07 Lipid transport in avian species (chickens)
R01HL-15567-05 Cardiovascular phosphoinositide metabolism (rats)
** R01HL-15740-06 In vitro studies on heart cell function (rats)
** R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
R01HL-16507-04 Heart cell interactions and cell junction biogenesis (mice, rats, rabbits)
** R01HL-16567-04 Differentiation of the heart-cell membrane (mice, chick)
P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
P60HL-17269-04 0020 National heart and blood vessel research and demonstration center - Nucleic acid and protein metabolism in growth and development of heart (rat)
P60HL-17269-04 0021 National heart and blood vessel research and demonstration center - Growth and development of heart--Ultrastructure (dog, guinea pig, rat, cat)
** R01HL-17376-04 Analysis of Z bands in heart by optical diffraction (mammals)
** P50HL-17648-04 0025 Study of ischemic heart disease - Destruction and repair of cardiac muscle cell constituents (rat)
** P50HL-17648-04 0026 Study of ischemic heart disease - Control of muscle cell proliferation (organ culture)
** P50HL-17648-04 0027 Study of ischemic heart disease - Phospholipid metabolism following cardiac injury and repair (rat)
** P50HL-17648-04 0028 Study of ischemic heart disease - Electrophysiology of sympathetic innervation in tissue culture
** P50HL-17648-04 0031 Study of ischemic heart disease - Ultrastructural consequences of myocardial ischemia (rat)
P50HL-17667-04 0012 Study of ischemic heart disease - Biochemistry of normal and ischemic heart--Glycolysis (rats)
P50HL-17670-04 0023 Study of ischemic heart disease - Energy metabolism in acute myocardial ischemic injury (dogs)
P50HL-17682-04 0018 Study of ischemic heart disease - Biochemistry of ischemia--Heart cell and organ culture (mice, rats, cattle)
P50HL-17682-04 0023 Study of ischemic heart disease - Core cell and organ culture laboratory (mice)
P01HL-17813-04 0007 Lung disease and the oxygenation of blood and tissue - Studies on the function of myoglobin (dogs)
R01HL-18003-05 Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)
R01HL-18053-03 Intracellular ionic activities in heart muscle (frogs)
** R01HL-18176-02 Effect of thyroid hormone on cultured cardiac cells (rats)
R01HL-18560-03 Cardiovascular adaptation to stress (miniature swine)
R01HL-18647-03 Ischemic myocardial injury in cultured heart cells (rats)
P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
** P01HL-18708-03 0008 Oxygen, energy and contractility in cardiac tissue - Cardiac cell culture facility
P01HL-18708-03 0009 Oxygen, energy and contractility in cardiac tissue - Regulation of oxygen utilization of cardiac tissue (rats, rabbits)
P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
** R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
R01HL-18798-04 0001 Nervous and ionic factors in sudden cardiac death - Potassium loss during myocardial ischemia (rabbits)
** R01HL-18900-03 Intercellular factors in function of cardiac cells
** R01HL-18943-03 Contractile activity of single cardiac cells
** R01HL-19138-03 Contractile activation of skinned cardiac cells (mammals)
R01HL-19299-03 Myoglobin and oxygen supply to heart and muscle cells (rats, pigeons)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-19848-02 Contractile activation by rapid temperature jumps (frogs)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
** R01HL-20254-02 Probes of heart and nerve membranes--Fluorescent dyes
** R01HL-20394-03 Complement activation by heart subcellular membranes (human, dog)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)
P01HL-20592-02 0003 Cell biology of cardiac and skeletal muscle - Cellular magnesium and anion activities in ion-specific microelectrodes (frogs)
P01HL-20592-02 0004 Cell biology of cardiac and skeletal muscle - Excitation, conduction and contraction--Modelling in Purkinje fibers
P01HL-20592-02 0006 Cell biology of cardiac and skeletal muscle - Permeability and ultrastructure of cardiac nexuses (rabbits, cattle, rats)
P01HL-20592-02 0013 Cell biology of cardiac and skeletal muscle - Sarcoplasmic reticulum in skinned muscle cells (frogs)
** R01HL-20643-02 Analysis of heart cell contraction (rats)
** R01HL-20708-02 Voltage clamp of embryonic heart cell aggregates (rat and chick embryos)
** R01HL-20793-02 Phospholipids and cardiac receptor function
** P01HL-20984-02 0004 Cellular mechanisms in cardiac hypertrophy - Myofibril accumulation in cardiac and vascular muscle cells in hypertrophy
** R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)
** R01HL-21342-02 Isolation and analysis of sodium channel from heart (frogs)
R01HL-21371-02 Energy loss microanalysis of myocardial cations
R01HL-21751-02 0001 Thallium and antimyosin in ischemia and infarction - In vitro models of ischemia and infarction (rats, mice)
R01HL-21995-01 Protein phosphorylation and adrenergic effects
** R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)
** R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
** R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
** R01HL-22562-02 Mechanism of cardiac action potential propagation (tunicates)
** R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
** R01HL-22664-01 Regulation of myocardial cell growth (rats, guinea pigs)
R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)
R01HL-23128-01 Cardiac contractility--Ischemia and hypoxia (rabbits, rats)
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)
R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)
R01HL-23161-01 0001 Biology of myocardial ischemia - Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)
R01HL-23166-01 Pathology of mitochondria in ischemic myocardium (rats, cattle)
** R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)
R01HL-23626-01 A study of the regulation of myocardial hypertrophy (rats)

HEART CIRCULATION

SEE ALSO HEART DISORDERS, CORONARY, MYOCARDIAL ISCHEMIA AND HYPOXIA
SEE ALSO HEART REVASCULARIZATION
SEE ALSO HEART VESSELS
** R01HL-03180-21 Relation of lymphatics to cardiopulmonary function (dogs)
** R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
M P01HL-04664-18 Cardiovascular and lung dynamics
P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
** P01HL-04664-18 0004 Cardiovascular and lung dynamics - X-ray cross section imaging of the circulation (dogs)
R01HL-05694-20 Functional pathology of cardiovascular disease (human)
R01HL-05875-18 Pathologic metabolic and physiologic studies of heart (human, dogs, cats)
** R01HL-05883-18 0008 Reflex control of resistance and capacitance vessels - Oxygen consumption of the chronically denervated dog heart
** R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
P01HL-06285-18 0131 Cardiovascular-respiratory physiology and biochemistry - Fetal heart development and ventricular outflow obstruction (lambs)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-06285-18 0143 Cardiovascular respiratory physiology and biochemistry - Myocardial ischemia (human, dogs, lambs)
M P01HL-06308-18 Machanisms and therapy ol circulatory disaasa
** P01HL-06308-18 0011 Machanisms and therapy ot circulatory diseasa - Blood llow and electrical dystunction in vanlricular arrhythmia (human)
P01HL-06308-18 0012 Mechanisms and therapy ol circulatory disease - Echocardiographic evaluation ol hamodynamics ol arrhythmia (human)
P01HL-06308-18 0029 Machanisms and therapy ol circulatory disaasa - Characterization ot the patient with recurrant ventricular arrhythmias
** P01HL-06308-18 0037 Mechanisms and therapy of circulatory disease - Electrophysiology, blood tlow, and ANS in ventricular fibrillation (dogs)
P01HL-06308-18 0038 Mechanisms and therapy of circulatory disease - Electrophysiology of ventricualr arrhythmias associated with ischemia (dogs)
M P01HL-06312-17 Surgical cardiology
P01HL-06312-17 0013 Surgical cardiology - Aortocoronary vein bypass grafting (human)
** P01HL-06312-17 0028 Surgical cardiology - Coronary tlow in the transplanted danervated heart (dogs)
P01HL-06312-17 0044 Surgical cardiology - The limits of topical cardiac hypothermia with ice chips (rats)
P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
P01HL-06664-17 0034 Cardiopulmonary lunction in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
P01HL-07293-17 0043 Non-invasive cardiovascular measurements - ECHO-Doppler instrumentation for cardiac measurements (human)
P01HL-07293-17 0045 Non-invasive cardiovascular measurements - Cardiac scanner transducer position locating systems (human)
P01HL-07293-17 0046 Non-invasive cardiovascular measurements - Cardiac scanner signal processors
P01HL-07293-17 0047 Non-invasive cardiovascular measurements - Cardiac scanner system software
P01HL-07293-17 0048 Non-invasive cardiovascular measurements - Cardiac scanner recording and display systems component
P01HL-07293-17 0049 Non-invasive cardiovascular measurements - Cardiac scanner engineering evaluation and error analysis
P01HL-07293-17 0050 Non-invasive cardiovascular measurements - Cardiac dimensions measurements engineering evaluation and error analysis
** P01HL-07293-17 0051 Non-invasive cardiovascular measurements - Physiologic evaluation of duplex scanner (dogs)
P01HL-07293-17 0052 Non-invasive cardiovascular measurements - Clinical evaluation of the duplex scanner (human)
** P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
** P01HL-07896-15 0054 Environmental biomedical research program - Myocardial effects of hemorrhagic shock (dogs)
** P01HL-07896-15 0059 Environmental biomedical research program - Hyperoxygenation at elevated atmospheric pressure on myocardial blood flow (dogs)
** R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
P01HL-08682-15 0036 Regulation of the cardiovascular system - Electrolyte transport in myocardium with hemorrhagic shock (rats)
R01HL-08696-15 0020 Orthotopic heart transplantation - Complete cardiopulmonary transplantation (dogs)
** P01HL-08805-15 0050 Regulation of ventilation and pulmonary circulation - Right ventricular mechanics (dogs)
P01HL-08899-14 0025 Tolerance to respiratory gases in health and disease - Effects of oxygen on cardiopulmonary gas transport tunctions (dogs)
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
** P01HL-10342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
** R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
** P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
** P01HL-10539-12 0070 Pathophysiology of circulation - Effects of hypertension on myocardial blood flow after coronary occlusion (dogs)
M P01HL-11310-12 Mechanisms of cardiovascular disease
** P01HL-11310-12 0060 Mechanisms ot cardiovascular disease - Effect of left atrium on the circulation--Simulation
P01HL-11310-12 0063 Mechanisms ol cardiovascular disease - Myocardial tunction, metabolism and cellular integrity after haart surgery (dogs)
** P01HL-11310-12 0068 Mechanisms ot cardiovascular disease - Pharmacological intervention and myocarcial oxygen consuption (human, dogs)
P01HL-11310-12 0076 Mechanisms ot cardiovascular disease - Tratment ol depressed cardiac output tollowing heart surgery (children, puppies)
P01HL-11310-12 0080 Mechanisms ot cardiovascular diseasa - Metabolism ot the hypertiophied myocardium (human)
P01HL-11310-12 0082 Mechanisms ot caidiovascular disease - Myocardial lunction in adult congenital heart diseasa (human)
M P01HL-11351-12 Cellular and molecular mechanisms ol myocardial function
** P01HL-11351-12 0020 Cellular and molecular mechanisms of myocardial function - Electrophysiology ol cultured heart cells
** R01HL-11876-11 Regional myocardial blood flow and metabolism (dogs, swine)
** R01HL-11906-11 Comparative study ol heart function (cats, rats, hedgehogs, squirrels)
** R01HL-12322-10 Extrinsic factors influencing myocardial perfcrmance (dogs, swine)
M P01HL-12373-10 Cardiopulmonary physiology and pathophysiology
P01HL-12373-10 0020 Cardiopulmonary physiology and pathophysiology - Hospitalization and patient care
R01HL-12415-10 Evaluation of left ventricular lunction (dogs, rabbits)
** P01HL-12738-10 0069 Physiologic pharmacology and its clinical applications - Blood rheology in coronary heart disease (dogs)
P01HL-12738-10 0071 Physiologic pharmacology and its clinical applications - IABP patient management in ventricular power failure (human)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
** P01HL-12738-10 0092 Physiologic pharmacology and its clinical applications - Subendocardial ischemia following open heart surgery (human)
P01HL-12738-10 0111 Physiologic pharmacology and its clinical applications - Cardiovascular pharmacology (dogs)
** P01HL-12738-10 0122 Physiologic pharmacology and its clinical applications - Coronary perfusion of beating and fibrillating hearts (dogs)
P01HL-12738-10 0123 Physiologic pharmacology and its clinical applications - Ventricular assistance and preservation (human, dogs)
R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
M P01HL-13108-09 Clinical heart transplantation
P01HL-13108-09 0003 Clinical heart transplantation - Endomyocardial biopsy pathology
P01HL-13108-09 0008 Clinical heart transplantation - Physiology and pharmacology of the transplanted human heart
** P01HL-13108-09 0020 Clinical heart transplantation - Autonomic neural studies in the denervated heart (human)
** P01HL-13108-09 0021 Clinical heart transplantation - Autonomic reflex regulation of ventricular function (human)
** P01HL-13108-09 0022 Clinical heart transplantation - Studies on cardiac receptors (human)
** P01HL-13108-09 0023 Clinical heart transplantation - Adaptive mechanisms of the denervated heart (human)
** R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
P01HL-13480-09 0028 Cardiac electrophysiology - Stress electrocardiography (human, dogs)
P01HL-13737-07 0027 Assisted circulation - Optimization of cardiac assistance (dogs)
P01HL-13737-07 0033 Assisted circulation - Autologous bioprosthetic grafts for coronary artery bypass surgery (human, dogs)
** P01HL-13737-07 0037 Assisted circulation - Clinical measurement of blood flow through aorto-coronary vein bypass graft
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
** R01HL-14148-07 0009 The regional circulations - Myocardial circulation in hypertension and atherosclerosis (human)
P50HL-14236-05 0002 Prevention of premature arteriosclerosis - Myocardial blood flow in patients with coronary artherosclerosis
M P01HL-14388-07 Regulation of the circulation in pathological states
P01HL-14388-07 0161 Regulation of the circulation in pathological states - Heterogeneity of left ventricular perfusion in awake dogs
P01HL-14388-07 0162 Regulation of the circulation in pathological states - Phasic coronary flow and myocardial perfusion in aortic regurgitation (dogs)
P01HL-14388-07 0163 Regulation ot the circulation in pathological states - Adrenergic receptors in coronary vessals (dogs)
P01HL-14388-07 0164 Regulation ot tha circulation in pathulogical states - Hyparkinetic heart syndrome (human)
P01HL-14388-07 0172 Regulation ol the circulation in pathological states - cAMP-dependent prutein kinase from heart and vascular smooth muscle (guinea pigs)
P01HL-14388-07 0173 Regulation ot the circulation in pathological states - Mechanisms ol cardiac myosin ATPase
P01HL-14388-07 0175 Regulation ol the circulation in pathological states - Functional studies ot selected proteins from cardiac muscle
P01HL-14388-07 0179 Regulation ol the circulation in pathological states - Cultured muscle cells and their cross innervation in vitro (rats, sheep)
P01HL-14388-07 0183 Regulation ol the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, [illegible])
P01HL-14388-07 0185 [illegible] ot the circ[illegible] pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0211 Regulation ot the circulation in pathological states - Choline acetyltransterase activity (rats)
P01HL-14388-07 0219 Regulation ol the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
** P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology ot the coronary circulation in man
P01HL-14388-07 0221 Regulation of the circulation in pathological states - Experimental myocardial infarction (dogs)
P01HL-14414-07 0015 Environmental influences on cardiorespiratory and cellular functions - Control ot the cardiovascular system (dogs)
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
** R01HL-15016-07 New concepts in cardiac ultrasound technology (human)
M P01HL-15194-07 Pathophysiology ot cardiopulmonary dysfunction
** P01HL-15194-07 0001 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, venous drainage and collateral flow (human, dogs)
** P01HL-15194-07 0017 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation and effects of arteriographic lesions on flow (human)
** P01HL-15194-07 0018 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, metabolic demand and vasodilatory reserve (human, dogs)
** P01HL-15194-07 0019 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, bypass grafts and diastolic driving pressure (human, dogs)
** P01HL-15194-07 0020 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation in arteriographically normal arteries (human)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
R01HL-15444-06 Neonatal development of adrenergic receptor mechanisms (pigs)
R01HL-15498-06 Effects of physical training on heart (rats)
R01HL-15522-06 Influence ot mannitol on ischemia cardiac muscle (dogs, cats, rats)
** R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
** R01HL-15758-06 Catecholamine release in the heart (dogs)
** R01HL-15983-04 Regional myocardial blood flow (dogs)
P01HL-16117-05 0007 Ion movements and membranes in cardiovascular control - Physiological and molecular properties of ionophores (dogs, rabbits)
R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
** R01HL-16292-05 0002 Surgery and non-obstructive coronary insufficiency - Effects of hypothermia during cardiopulmonary bypass (dogs)
** R01HL-16292-05 0010 Surgery and non-obstructive coronary insufficiency - Effects of exercise on flow distribution (dogs)
R01HL-16292-05 0017 Surgery and non-obstructive coronary insufficiency - Cardiopulmonary resuscitation (human)
R01HL-16292-05 0018 Surgery and non-obstructive coronary insufficiency - Unavoidable subendocardial perfusion caused by venting and hypothermia (dogs)
R01HL-16292-05 0019 Surgery and non-obstructive coronary insufficiency - Distortion of subendocardial vessels in infant hearts (dogs)
R01HL-16292-05 0020 Surgery and non-obstructive coronary insufficiency - Limitation of transthoracic ECG in detecting subendocardial ischemia (dogs)
** R01HL-16292-05 0021 Surgery and non-obstructive coronary insufficiency - Pulsatile assistance on subendocardial perfusion during bypass (dogs)
** R01HL-16412-04 Release ot nucleosides from the ischemic heart (human, dogs)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-16657-06 Innervation of coronary arteries and heart (rats)
** R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
** P01HL-16910-05 0002 Regulation of the peripheral circulation - Coronary circulation (dogs)
P01HL-16910-05 0006 Regulation of the peripheral circulation - Regulation of blood flow distribution (baboons, dogs)
P60HL-17269-04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat)
P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Dynamics of ischemic heart disease (human, dog)
R01HL-17403-03 Metabolic control of cardiac output (dogs)
R01HL-17459-03 Myocardial ischemia (dogs)
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)
R01HL-17591-03 Development of electromagnetic rheoangiography (human, dogs)
P50HL-17646-04 0005 Study of ischemic heart disease - Biochemical markers and mediators of myocardial ischemic injury
P50HL-17646-04 0012 Study of ischemic heart disease - Role of microcirculation in progression of myocardial ischemic injury (rat)
** P50HL-17646-04 0013 Study of ischemic heart disease - Maintenance of myocardial vascular integrity after revascularization (dogs)
P50HL-17646-04 0014 Study of ischemic heart disease - Progression of ischemic injury in conscious dogs (also rabbits)
P50HL-17648-04 0004 Study of ischemic heart disease - Radionuclide imaging studies (human, pig)
** P50HL-17648-04 0006 Study of ischemic heart disease - Ventricular performance and myocardial perfusion in obstructive coronary disease
P50HL-17648-04 0011 Study of ischemic heart disease - Surgical treatment for acute myocardial ischemia (human, dogs)
P50HL-17648-04 0012 Study of ischemic heart disease - Retrograde coronary venous perfusion--Acute myocardial ischemia
P50HL-17648-04 0013 Study of ischemic heart disease - Fate of bypassed and bypassing vessels (dogs)
P50HL-17648-04 0021 Study of ischemic heart disease - Biventricular contractile responses to acute myocardial infarction (mammals)
P50HL-17648-04 0034 Study of ischemic heart disease - Data management--Hemodynamic data
** P50HL-17651-04 0002 Ischemic heart disease specialized center of research - Reduction of myocardial ishemic injury by pharmacologic agents (human, dog)
P50HL-17651-04 0016 Ischemic heart disease specialized center of research - Retroperfusion of coronary venus circulation with therapeutic agents (dogs)
** P50HL-17651-04 0037 Ischemic heart disease specialized center of research - Measurement of coronary venous outflow by thermodilution (human)
P50HL-17651-04 0038 Ischemic heart disease specialized center of research - Cardiothermography (human, dog)
P50HL-17651-04 0043 Ischemic heart disease specialized center of research - Gradual reperfusion following acute coronary occlusion (dog)
P50HL-17651-04 0045 Ischemic heart disease specialized center of research - Peripheral vascular studies--Pharmacology (dogs, human)
P50HL-17655-04 0001 Study of ischemic heart disease - Intravenous nitroglycerin--Ventricular function and infarct size (human, dog)
P50HL-17655-04 0006 Study of ischemic heart disease - Evaluation of coronary artery bypass graft surgery (human)
P50HL-17655-04 0011 Study of ischemic heart disease - Core facility--Cardiovascular nuclear medicine (human, dog)
** P50HL-17655-04 0014 Study of ischemic heart disease - Blood flow and gas tension in myocardial ischemia and infarction (dog, monkey)
P50HL-17665-04 0012 Study of ischemic heart disease - Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog
** P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)
P50HL-17665-04 0027 Study of ischemic heart disease - Positron imaging of regional myocardial perfusion (human, dog)
P50HL-17667-04 0045 Study of ischemic heart disease - Pathology of myocardial ischemic necrosis (human)
P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
P50HL-17669-04 0008 Ischemic heart disease center (SCOR) - Segmental ventricular dysfunction during stress-induced ischemia (dog, human)
** P50HL-17669-04 0012 Ischemic heart disease center (SCOR) - Circulatory assistance (human, dog)
** P50HL-17670-04 0006 Study of ischemic heart disease - Assessment of coronary artery hemodynamics and myocardial blood flow (human)
P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
P50HL-17670-04 0011 Study of ischemic heart disease - Pharmacology of ischemic myocardium (dogs)
** P50HL-17670-04 0015 Study of ischemic heart disease - Radionuclide studies of myocardial ischemia (human)
P50HL-17670-04 0020 Study of ischemic heart disease - Radionuclide evaluation of coronary artery disease (human, dog)
P50HL-17670-04 0021 Study of ischemic heart disease - Enzymatic evaluation of acute myocardial infarction (dogs)
P50HL-17682-04 0003 Study of ischemic heart disease - Effects of myocardial revascularization in man
** P50HL-17682-04 0005 Study of ischemic heart disease - Regional myocardial perfusion deficits and segmental contraction disorders in man
P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
P50HL-17682-04 0014 Study of ischemic heart disease - Myocardial ischemia--Instrumentation and technique (dogs, baboons)
P50HL-17682-04 0015 Study of ischemic heart disease - Acute myocardial ischemia and infarction and their reversibility (dogs, baboons)
P50HL-17682-04 0016 Study of ischemic heart disease - Endurance exercise--Prevention and rehabilitation in ischemic heart disease (pig)
P50HL-17682-04 0020 Study of ischemic heart disease - Nucleotide and nucleoside metabolism in ischemic myocardium
P50HL-17682-04 0021 Study of ischemic heart disease - Prostaglandin biosynthesis in blood vessels from ischemic myocardium (rat, sheep)
R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
** R01HL-17809-04 Effects of exercise on the coronary vasculature (rat, dog)
** R01HL-17859-04 Computational methods in cardiac fluid dynamics
R01HL-17895-04 Myocardial function and metabolism following ischemia (rats)
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
** R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
R01HL-17993-04 0006 Ventricular dynamics from surgically inserted markers - Atrial pacing in transplant patients
** R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
R01HL-18060-04 Exercise and coronary atherosclerotic heart disease (monkeys)
** R01HL-18190-03 Myocardial blood flow in acute myocardial infarction (human, dogs)
** R01HL-18204-03 Regional blood flow in viral myocarditis (turkeys)
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
R01HL-18328-03 Hemoglobin function and tissue oxygenation (human, dogs)
R01HL-18460-01 Effects of prolonged hypoperfusion on the myocardium (rabbits)
** R01HL-18468-03 The distribution of flow in the myocardium (dog, pig)
** R01HL-18492-03 Measurement of regional coronary flow reserve (human, dogs)
** R01HL-18537-04 Regional blood flow after acute myocardial injury (dogs)
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
R01HL-18629-04 Influence of aging and hypertension on the myocardium (rats)
P01HL-18646-03 0010 Studies basic to heart transplantation - Development and study of a heart preservation chamber (dogs, sheep)
** P01HL-18708-03 0009 Oxygen, energy and contractility in cardiac tissue - Regulation of oxygen utilization of cardiac tissue (rats, rabbits)
R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
R01HL-18805-04 0003 Sudden cardiac death and the onset of myocardial infarction - Prediction from clinical and laboratory assessments (human)
** R01HL-18805-04 0005 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Radionuclide studies (human)
R01HL-18933-03 Energy output and efficiency of left ventricle (dog)
** R01HL-18979-02 Mechanisms in local regulation of coronary flow (rabbits)
** R01HL-19135-04 Heterogeneity of regional myocardial blood flow (dogs)
R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
** R01HL-19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
** R01HL-19218-03 Local regulation of coronary flow by prostaglandins (rabbits)
R01HL-19275-03 Characterization of collateral blood vessels (dogs)
** R01HL-19370-03 Coronary capillary exchange--The effects of ischemia (dogs, sheep)
R01HL-19398-03 Regional conduction abnormalities and arrhythmias (dogs)
R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
M R01HL-19451-03 Functional characteristics of the left heart
R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
P01HL-19737-02 0007 Cellular and molecular aspects of respiratory physiology - Average oxygen tension of tissue using radioisotopes (dogs)
** R01HL-19937-02 Vasodilators in experimental myocardial infarction (dogs)
R01HL-20080-02 Surgically induced myocardial edema (dogs)
R01HL-20163-02 Competitive coronary flow in native and graft vessels (dog)
** R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
R01HL-20196-02 Regulation of coronary arterial smooth muscle
R01HL-20206-02 Carbohydrates-nucleotides and adrenergic interactions (rabbits, cats, rats)
** R01HL-20226-02 Cardiac bypass and coronary collateral physiology (dogs)
** R01HL-20253-02 Effects of exercise on the heart and its blood supply (dogs)
** R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
** R01HL-20286-02 Interventions to improve cardiac function in ischemia (dogs)
R01HL-20356-02 Development and evaluation of an artificial heart (calves)
R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
R01HL-20401-03 Relationship of insulin to catechol cardiomyopathy (rabbit, pig)
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
R01HL-20476-03 Effects of diabetes on cardiac performance (rat)
P01HL-20552-02 0004 The development and regression of cardiac hypertrophy - Ventricular function in experimentally induced hypertrophy (hogs, sheep, baboons)
** R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood flow in hypertension (rats)
R01HL-20597-02 Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits)
** R01HL-20598-03 The coronary vascular response to ischemia (dogs, pigs)
** R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
** R01HL-20648-01 Physical factors and coronary flow (dogs)
** R01HL-20782-01 Coronary flow regulation by adenosine (rats, dogs)
R01HL-20803-02 Intra-aortic balloon pumping (dogs, lambs, cats)
** R01HL-20827-02 Effects of hypertrophy on the coronary circulation (dogs)
R01HL-20829-02 Fluid mechanics of heart valve prostheses (dogs, human)
M R01HL-20895-03 Cineangiographic studies of cardiovascular system
** R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
** R01HL-20895-03 0002 Cineangiographic studies of cardiovascular system - Coronary disease--Regional myocardial blood flow (human, dog)
R01HL-20895-03 0003 Cineangiographic studies of cardiovascular system - Densitometry in coronary stenosis (human)
** R01HL-20895-03 0004 Cineangiographic studies of cardiovascular system - Cineangiography--Coronary lesions and ventricular function (human)
** R01HL-20895-03 0005 Cineangiographic studies of cardiovascular system - Computerized axial tomography--Cardiac wall motion and infarction (dogs)
** R01HL-20895-03 0006 Cineangiographic studies of cardiovascular system - Cardiomyopathy--Hemodynamic, radiologic, morphologic abnormalities (dog, rabbit)
** R01HL-20895-03 0008 Cineangiographic studies of cardiovascular system - Intercoronary anastomotic circulation--Stenosis and occlusion (dogs)
** R01HL-20895-03 0011 Cineangiographic studies of cardiovascular system - Ventricular hypertrophy and preoutflow contraction (human, dogs)
P50HL-21006-02 0005 Specialized center of research in arteriosclerosis - Regional myocardial perfusion in patient with coronary artery disease (also dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R23HL-21042-01 Cardiopulmonary reflexes and their anatomical basis (dogs)
** R01HL-21158-02 Cardiac receptors with vagal C fiber afferents (cats)
R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)
R01HL-21293-02 Randomized study of coronary bypass surgery (human)
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
R23HL-21327-02 Molecular mechanisms of chemical myocardiopathies (rats)
R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
** R23HL-21434-02 Intrinsic control of coronary blood flow by chemicals (guinea pigs)
R01HL-21498-02 Pathophysiology of edema (rats, cats)
** R01HL-21657-01 Regional non-ischemic myocardial hypoxia (dogs)
R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)
R01HL-21786-01 Long-term effects of myocardial protection (dogs, rats)
** R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
R01HL-21893-01 Blood volume distribution in hypertension (human)
R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
R01HL-22154-01 Cardiac adaptation to physical training (dog)
R01HL-22215-01 Effects of exercise-training in ischemic heart disease (human)
R23HL-22245-02 Functional characteristics of atrial receptors (rats)
R01HL-22274-01 Quantitating in series effects in cardiac arrhythmias (dogs)
R01HL-22281-01 Microprobe analysis and metabolite levels of ischemic myocardium (dogs)
** R01HL-22315-01 Intraoperative cardiac oxygen supply-demand (dogs, rabbits, rats)
R01HL-22326-01 Noninvasive measurement of cardiac output (dogs)
R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)
R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
** R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)
R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
R01HL-22759-01 Regional myocardial blood flow during hypothermia (dogs)
R23HL-22787-01 Cardiac volume by biplane echocardiography (human)
** R01HL-22801-01 Analysis of coronary artery behavior (dogs)
R01HL-22815-01 Regional myocardial function after revascularization (dogs)
R01HL-22828-01 Adenosine and catecholamine interaction in the heart (rats)
** R01HL-22917-01 Microvascular pressures in the intact beating heart (rabbits)
** R01HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)
R01HL-22952-01 Validation of quantitative coronary arteriography (dogs)
** R01HL-23171-01 Coronary collateral circulation in myocardial ischemia (dog, pig, rat, human)
R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)
** R01HL-23653-01 Protection of the ischemic myocardium (dogs)
** R01HL-23982-01 Control of coronary flow by carbon dioxide tension (dogs)
N01HV-62960-00 Techniques to protect ischemic myocardium and minimize infant size (human)

HEART CONDUCTION SYSTEM

SEE HEART, CONDUCTION SYSTEM

HEART CONGENITAL ABNORMALITIES

SEE CONGENITAL ABNORMALITIES, HEART DEFECTS

HEART CONTRACTION

SEE HEART FUNCTION, HEART CONTRACTION

HEART DEFECTS

SEE CONGENITAL ABNORMALITIES, HEART DEFECTS

HEART DIMENSIONS AND WEIGHT

SEE ALSO HEART DISORDERS, HEART ENLARGEMENT
SEE ALSO HEART FUNCTION, INTRACARDIAC VOLUME
R01HL-01D15-27 Hypertension and left ventricular hypertrophy (dogs)
P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
P01HL-04664-18 0004 Cardiovascular and lung dynamics - X-ray cross section imaging of the circulation (dogs)
P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)
P01HL-06308-18 0042 Mechanisms and therapy of circulatory disease - Echocardiographic assessment of arrhythmias--Myocardial tissue type (human, dogs)
P01HL-06308-18 0043 Mechanisms and therapy of circulatory disease - Exercise and echocardiographic examining techniques (human)
P01HL-06312-17 0018 Surgical cardiology - Cardiac transplantation growth (calves)
P01HL-06835-17 0038 Cardiovascular disease - Effect of chronic administration of angiotensin antagonist (rats)
M P01HL-07293-17 Non-invasive cardiovascular measurements
** P01HL-07293-17 0041 Non-invasive cardiovascular measurements - Ventricular volumes and dimensions (human)
** P01HL-07293-17 0043 Non-invasive cardiovascular measurements - ECHO-Doppler instrumentation for cardiac measurements (human)
P01HL-07293-17 0045 Non-invasive cardiovascular measurements - Cardiac scanner transducer position locating systems (human)
P01HL-07293-17 0046 Non-invasive cardiovascular measurements - Cardiac scanner signal processors
P01HL-07293-17 0047 Non-invasive cardiovascular measurements - Cardiac scanner system software
P01HL-07293-17 0049 Non-invasive cardiovascular measurements - Cardiac scanner engineering evaluation and error analysis
** P01HL-07293-17 0050 Non-invasive cardiovascular measurements - Cardiac dimensions measurements engineering evaluation and error analysis
** P01HL-07293-17 0051 Non-invasive cardiovascular measurements - Physiologic evaluation of duplex scanner (dogs)
** P01HL-07293-17 0052 Non-invasive cardiovascular measurements - Clinical evaluation of the duplex scanner (human)
** P01HL-07293-17 0053 Non-invasive cardiovascular measurements - Clinical evaluation of cardiac dimensions using the duplex scanner (human)
P01HL-10539-12 0069 Pathophysiology of circulation - Ventricular compliance and mechanics in intact ventricles (human)
P01HL-11310-12 0056 Mechanisms of cardiovascular disease - Cardiac output response to blood pressure reduction in infants (human)
P01HL-11310-12 0060 Mechanisms of cardiovascular disease - Effect of left atrium on the circulation--Simulation
P01HL-11310-12 0061 Mechanisms of cardiovascular disease - Computer simulation of transposition of great arteries in infants
P01HL-11310-12 0080 Mechanisms of cardiovascular disease - Metabolism of the hypertrophied myocardium (human)
P01HL-11414-11 0034 Thrombosis and atherosclerosis program - Servo simulation--Experimental myocardial infarction (dogs)
P01HL-12373-10 0001 Cardiopulmonary physiology and pathophysiology - Mechanics of myocardial contraction (dogs, rats, swine)
P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Determinants of performance of the whole heart (dogs)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
P50HL-14214-07 0030 Newborn lung center for hyaline membrane disease - Effects of ductal patency--Impedance cardiography and echocardiography (human)
R01HL-14545-06 Mechanics of compensatory ventricular hypertrophy (dogs)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
P01HL-15835-06 0D23 Study of muscles related to heart disease - Cellular basis of the Frank-Starling curve (frogs, rats)
RD1HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
P50HL-17646-04 00D2 Study of ischemic heart disease - Core data management
** P50HL-17646-04 D01D Study of ischemic heart disease - Compliance in ischemic myocardium--Altered cardiac performance (human, dogs)
P50HL-17651-04 0D32 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
P50HL-17655-04 00D1 Study of ischemic heart disease - Intravenous nitroglycerin--Ventricular function and infarct size (human, dog)
P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
P50HL-17669-04 D0D6 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
P5DHL-17669-04 00D7 Ischemic heart disease center (SCDR) - Relationship between myocardial depression and compliance (dogs, cats)
P50HL-17669-04 0008 Ischemic heart disease center (SCDR) - Segmental ventricular dysfunction during stress induced ischemia (dog, human)
P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
P50HL-17670-04 0014 Study of ischemic heart disease - Real time ultrasound imaging in ischemic heart disease (human, dog)
P50HL-17682-04 0003 Study of ischemic heart disease - Effects of myocardial revascularization in man
P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
P50HL-17682-04 0012 Study of ischemic heart disease - Pathology core laboratory (human)
P50HL-17682-04 0014 Study of ischemic heart disease - Myocardial ischemia--Instrumentation and technique (dogs, baboons)
P50HL-17682-04 0015 Study of ischemic heart disease - Acute myocardial ischemia and infarction and their reversibility (dogs, baboons)
R01HL-18639-03 Human anatomy for cardiac prostheses (human)
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
R01HL-18749-03 Ventricular mechanics in the overloaded heart (dogs)
R01HL-19246-03 Regression of cardiac hypertrophy--Myocardial and renal (human)
R01HL-19257-03 Cardiovascular adjustment to behavioral stress (dog)
R01HL-19425-03 Cardiac function in hypertrophy (dog)
** R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
** R01HL-19486-03 Dipole moment measurement of cardiac mass (rabbits, pigs)
M P01HL-20552-02 The development and regression of cardiac hypertrophy
P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
P01HL-20552-02 0004 The development and regression of cardiac hypertrophy - Ventricular function in experimentally induced hypertrophy (hogs, sheep, baboons)
** R01HL-20883-02 Fiber geometry in hypertrophy and cardiomyopathy (human)
R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
R01HL-22859-01 Effect of carbon monoxide on the developing heart (rats)
R01HL-23171-01 Coronary collateral circulation in myocardial ischemia (dog, pig, rat, human)
N01HV-62960-00 Techniques to protect ischemic myocardium and minimize infant size (human)

HEART DISEASE EDUCATION

SEE EDUCATION, HEALTH EDUCATION, CARDIOVASCULAR DISEASE EDUCATION

HEART DISORDERS

SEE ALSO CARDIOVASCULAR DISORDERS (GENERAL)
SEE ALSO CONGENITAL ABNORMALITIES, HEART DEFECTS
SEE ALSO DISEASES, COMPLICATIONS, POSTPERICARDIOTOMY SYNDROME
SEE ALSO RESPIRATORY CIRCULATORY DISORDERS, PULMONARY HEART DISEASE
** R01HL-01486-23 Quantitative study of T-wave mechanisms (human, rabbits, dogs, chickens)
P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique
** R01HL-05694-20 Functional pathology of cardiovascular disease (human)
M P01HL-06285-18 Cardiovascular-respiratory physiology and biochemistry
M P01HL-06312-17 Surgical cardiology
** P01HL-06312-17 D046 Surgical cardiology - The relationship of prostaglandins to heart disease
P01HL-06312-17 0050 Surgical cardiology - Prevention of pericardial and pleural adhesions by silicone oil (dogs)
M P01HL-06370-17 Cardiopulmonary and renal pathology research center
R01HL-07047-16 Comparative study of cardiac conduction system (human, birds, mammals)
M P01HL-08805-15 Regulation of ventilation and pulmonary circulation
R01HL-09711-13 Instantaneous blood flow in ascending aorta (human, dogs)
R01HL-09831-12 Effect of resistivity variations on electrocardiogram (human)
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
** P01HL-1D342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
M P01HL-10539-12 Pathophysiology of circulation

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

M P01HL-11307-12 Biophysical studies in pediatric cardiology
P01HL-11307-12 0002 Biophysical studies in pediatric cardiology - Cardiac extracellular electrophysiology (human, dog, chimpanzee)
M P01HL-11310-12 Mechanisms of cardiovascular disease
** P01HL-11310-12 0081 Mechanisms of cardiovascular disease - Analysis of regional left ventricular function (human)
M P01HL-11351-12 Cellular and molecular mechanisms of myocardial function
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
R01HL-11919-08 Pulmonary circulation in surgical heart disease (human, dogs)
M P01HL-12373-10 Cardiopulmonary physiology and pathophysiology
P01HL-12373-10 0001 Cardiopulmonary physiology and pathophysiology - Mechanics of myocardial contraction (dogs, rats, swine)
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
M P01HL-12738-10 Physiologic pharmacology and its clinical applications
P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotherapeutic drugs and cardiovascular system (human, rats)
** P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
M P01HL-13330-08 Mechanical circulatory support
P01HL-13330-08 0031 Mechanical circulatory support - Hemodynamics of cardiac prosthesis
** P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and avaluation of left ventricular bypass pumps (human, cattle)
M P01HL-13480-09 Cardiac electrophysiology
** R01HL-13639-07 Factors altering the course of myocardial dysfunction (cats)
M P01HL-13737-07 Assisted circulation
M P01HL-13738-08 Cardiac assist devices and artificial hearts
M P01HL-14388-07 Regulation of the circulation in pathological states
** P01HL-14388-07 0164 Regulation of the circulation in pathological states - Hyperkinetic heart syndrome (human)
R01HL-15016-07 New concepts in cardiac ultrasound technology (human)
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
** R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
** R01HL-15764-05 C-AMP dependent protein kinase in cardiac contraction (dogs)
P01HL-15835-06 0011 Study of muscles related to heart disease - Energetics and mechanism of muscle contraction (frogs, rabbits)
** R01HL-15840-02 Sugar-induced heart lesions and vitamin K deficiancy (birds, mammals subhuman)
R01HL-16678-03 Fluorescent probe studies of heart muscle proteins (rabbit, dog)
M P60HL-17269-04 National heart and blood vessel research and demonstration center
** P60HL-17269-04 0033 National heart and blood vessel rasearch and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
** R01HL-17404-05 Immunologic mechanisms in heart disease (mice)
** R01HL-18338-04 Computer feedback study of cardiac muscle mechanics (rats)
** R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
** R01HL-18593-03 Characterization of heart valva collagen (human, pig)
** R01HL-19391-03 Oynamic determinants of left ventricular filling (dogs)
R01HL-19460-03 Mechanics of the papillary muscle and tha left ventricle (cats, rabbits)
P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
R01HL-19768-02 Recording and analysis of low levels cardiac signals (human, dogs)
R01HL-19898-03 Oesferrioxamine therapy in thalassemia (dogs, rats, children)
M P01HL-20592-02 Cell biology of cardiac and skeletal muscla
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
** R01HL-22080-01 Phosphorus NMR studies on cardiac tissua (rats, rabbits)
R01HL-22265-02 Isozymes of heart glutamate aspartate transaminase (swina, ducks)
R23HL-22575-01 Factors modifying cardiac digoxin effects and contant (dogs, cats)
R01HL-22604-01 Non-invasiva systam for arteriosclerosis studies (human)
** R01HL-23994-01 Biochamical properties of human cardiac myosin

** N01HV-62969-03 Cardiology patient simulator evaluation

HEART DISORDERS, ANEURYSMS

P01HL-14388-07 0221 Regulation of the circulation in pathological states - Experimental myocardial infarction (dogs)
R01HL-14651-05 Mechanical behavior of left ventricle (dogs, rats)
P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
R01HL-20597-02 Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits)
R23HL-22004-01 Imaging and ECG studies in acute and chronic IHO (human)

HEART DISORDERS, ARRHYTHMIA

SEE ALSO CAROIOVASCULAR AGENTS, ANTIARRHYTHMIC AGENTS
SEE ALSO CONGENITAL ABNORMALITIES, HEART OEFECTS, WOLFF-PARKINSON-WHITE SYNOROME
SEE ALSO HEART OISORDERS, SUOOEN DEATH
SEE ALSO HEART RESUSCITATION, ELECTRIC COUNTERSHOCK
R01HL-01803-23 0021 Arteriosclerosis, glomerulonephritis, rheumatic fever - Induction of IgE antibodies to antigen from tobacco and cigarette smoke (rabbits)
** R01HL-01803-23 0022 Arteriosclerosis, glomerulonephritis, rheumatic fever - Cardiac and pulmonary anaphylaxis induced by tobacco glycoprotein (rabbits)
M P01HL-06308-18 Mechanisms and therapy of circulatory disease
** P01HL-06308-18 0012 Mechanisms and therapy of circulatory disease - Echocardiographic evaluation of hemodynamics of arrhythmia (human)
** P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
** P01HL-06308-18 0039 Mechanisms and therapy of circulatory disease - ANS in regulation of electrophysiology--Role of cyclic nulceotides (animals)
** P01HL-06308-18 0040 Mechanisms and therapy of circulatory disease - Metabolism and fatty acid utilization--Heart electrical stability (rats, dogs)
** P01HL-06308-18 0042 Mechanisms and therapy of circulatory disease - Echocardiographic assessment of arrhythmias--Myocardial tissue type (human, dogs)
** P01HL-06312-17 0025 Surgical cardiology - Effect of denervation on arrhythmias and function with coronary occlusion (dogs)
R01HL-07047-16 Comparative study of cardiac conduction system (human, birds, mammals)
** R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
** R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
M P01HL-08682-15 Regulation of the cardiovascular system
P01HL-08682-15 0015 Regulation of the cardiovascular system - Projection of autonomic nerves onto the heart (dog)
P01HL-08682-15 0016 Regulation of the cardiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)
** P01HL-08682-15 0017 Regulation of the cardiovascular system - Neurally induced cardiac dysrhythmias (dog)
R01HL-09315-15 Coronary insufficiency and myocardial revascularization (human, dogs)
** R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
P01HL-10539-12 0064 Pathophysiology of circulation - Exercise physiology and pathophysiology (human)
** R01HL-10951-11 Neural control of the heart (dogs, rats)
P01HL-11307-12 0002 Biophysical studies in pediatric cardiology - Cardiac extracellular electrophysiology (human, dog, chimpanzee)
M P01HL-11310-12 Mechanisms of cardiovascular disease
** P01HL-11310-12 0077 Mechanisms of cardiovascular disease - Abnormalities of rhythm and conduction following heart surgery (human)
P01HL-11310-12 0092 Mechanisms of cardiovascular disease - Exercise electrophysiology (human)
** R01HL-12611-10 Basic and clinical studies of the ST-T deflection (human, dogs)
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
** P01HL-12738-10 0042 Physiologic pharmacology and its clinical applications - Centrogenic cardiac arrhythmias (cats)
** P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
** P01HL-12738-10 0080 Physiologic pharmacology and its clinical applications - Electrophysiology of cardiac muscle in the mitral valve (monkeys)
** P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)

** P01HL-12738-10 0107 Physiologic pharmacology and its clinical applications - Blood superfused cardiac fibers (dogs)
** P01HL-12738-10 0110 Physiologic pharmacology and its clinical applications - Physiology and pharmacology of arrhythmias (dogs)
** P01HL-12738-10 0127 Physiologic pharmacology and its clinical applications - Cardiac electrical activity (human, animals)
P01HL-12738-10 0132 Physiologic pharmacology and its clinical applications - Coronary occlusions and arrhythmias (dogs)
R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
M P01HL-13108-09 Clinical heart transplantation
** P01HL-13108-09 0008 Clinical heart transplantation - Physiology and pharmacology of the transplanted human heart
** P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
** P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
** R01HL-13375-09 Cellular potential changes causing cardiac arrhythmias (dogs)
P01HL-13480-09 0026 Cardiac electrophysiology - Neural influences on cardiac electrophysiology and contraction (dog, cat)
** P01HL-13480-09 0028 Cardiac electrophysiology - Stress electrocardiography (human, dogs)
** P01HL-13480-09 0042 Cardiac electrophysiology - Computer modeling of arrhythmias
** R01HL-13623-08 Atrial receptors (dogs)
** R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
** R01HL-13920-07 Expanding the role of surgery of atrial dysrhythmias (dogs)
R01HL-14614-07 Voltage control of contraction in heart (sheep)
R01HL-14688-05 Myocardial assessment by inverse electrocardiography (monkey)
** R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
** R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
** R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
M P01HL-15194-07 Pathophysiology of cardiopulmonary dysfunction
** P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
R01HL-15740-06 In vitro studies on heart cell function (rats)
R01HL-15790-06 Follow-up study of acute coronary heart attacks (human)
** R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
** R01HL-16135-05 Mechanisms of cardiac autorhythmicity (dogs, bats)
R01HL-16657-06 Innervation of coronary arteries and heart (rats)
R01HL-17367-05 Functional sympathetic development in neonatal hearts (dogs, human)
** R01HL-17451-05 Oigitalis effects on cardiac automaticity mechanisms
P50HL-17646-04 0001 Study of ischemic heart disease - Core clinical investigation unit
P50HL-17646-04 0015 Study of ischemic heart disease - Protecting ischemic myocardium in patients with evolving myocardial infarction
P50HL-17646-04 0016 Study of ischemic heart disease - Humoral factors in ischemic heart rhythm, mechanical performance (dog, rabbit)
** P50HL-17646-04 0017 Study of ischemic heart disease - Dysrhythmia associated with acute myocardial infarction (human, cat)
** P50HL-17648-04 0014 Study of ischemic heart disease - Antidysrhythmic drugs and mammalian cardiac Purkinje fibers (sheep, dog)
** P50HL-17648-04 0033 Study of ischemic heart disease - Oata management--Electrocardiographic analysis system
** P50HL-17651-04 0022 Ischemic heart disease specialized center of research - Electrophysiology--Mechanism and pharmacology of arrhythmias (human, dog)
P50HL-17651-04 0023 Ischemic heart disease specialized center of research - Oevelopment of multipurpose catheter for monitoring and electronic pacing
P50HL-17651-04 0043 Ischemic heart disease specialized center of research - Gradual reperfusion following acute coronary occlusion (dog)
P50HL-17651-04 0046 Ischemic heart disease specialized center of research - Clinical core--Physiological changes/biochemical effects of myocardial ischemia
** P50HL-17651-04 0047 Ischemic heart disease specialized center of research - Clinical core--Automated arrhythmia monitoring system
P50HL-17655-04 0004 Study of ischemic heart disease - Coronary arteriography in survivors of acute myocardial infarction (human)

(contd)

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M Grant has subprojects describing specific research aspects.
See Appendix for Investigator's name and grant number.

P50HL-17665-04 0001 Study of ischemic heart disease Reduction of acute anterior myocardial infarction-Mechanical circulatory assist
P50HL-17665-04 0002 Study of ischemic heart disease Reducing acute anterior myocardial infarction-Beta adrenergic blockade (human)
P50HL-17665-04 0003 Study of ischemic heart disease Quantitation of injury-Acute myocardial infarction complicated by shock (human)
P50HL-17665-04 0030 Study of ischemic heart disease Beta management
** P50HL-17667-04 0018 Study of ischemic heart disease Arrhythmias in ischemic heart disease (human)
** P50HL-17667-04 0029 Study of ischemic heart disease - Computer diagnosis of cardiac arrhythmias after open heart surgery (human)
P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
P50HL-17667-04 0031 Study of ischemic heart disease - Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey)
P50HL-17667-04 0038 Study of ischemic heart disease - Clinical core unit
** P50HL-17670-04 0008 Study of ischemic heart disease - Surgical treatment of cardiac rhythm disorders (human, dogs)
P50HL-17670-04 0011 Study of ischemic heart disease - Pharmacology of ischemic myocardium (dogs)
** P50HL-17670-04 0012 Study of ischemic heart disease - Epidemiology of sudden death (human)
P50HL-17670-04 0014 Study of ischemic heart disease - Real time ultrasound imaging in ischemic heart disease (human, dog)
P50HL-17670-04 0016 Study of ischemic heart disease - Core pathology laboratory (human, dogs, monkeys)
** P50HL-17682-04 0001 Study of ischemic heart disease - Studies in acute and chronic ischemic heart disease (human)
** R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
R01HL-18040-04 Waveform dependency in defibrillation (calves)
R01HL-18185-04 Cardiac glycosides and diuretics--Role of Na0 pump (dogs)
** R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
R01HL-18631-03 Ultrastructural correlates of myocardial ischemia (rats, swine)
R01HL-18657-03 Pharmacologic studies on neurogenic digitalis effects (human, cats, dogs)
** R01HL-18769-04 Studies in survivors of lethal arrhythmias (human)
** R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-18793-03 Clinical-pathologic studies of sudden cardiac death (human)
** R01HL-18794-04 Prospective studies of conduction disease (human)
** R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
** R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
** R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
** R01HL-19076-03 Vagal control of heart rate--A biophysical model (rabbits)
R01HL-19216-03 Characterization of cardiac pacemaker activity (cat, dog, rabbit)
M P01HL-19259-03 Digoxin-specific antibody in human therapy
P01HL-19259-03 0001 Digoxin-specific antibody in human therapy - Primary structure of monoclonal antibodies (rabbits)
P01HL-19259-03 0004 Digoxin-specific antibody in human therapy - Digitalis-specific antibodies pharmacological studies (human, dogs, sheep)
** R01HL-19343-03 Behavioral influences on cardiac contractility (monkeys)
** R01HL-19391-03 Dynamic determinants of left ventricular filling (dogs)
** R01HL-19398-03 Regional conduction abnormalities and arrhythmias (dogs)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL-19487-03 Cardiac actions of digitalis (dogs, cats)
R01HL-19680-01 Cardiac correlates of behavioral stress in animals (dog)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-20211-02 Role of taurine in the heart (dogs, rats, mice)
** R01HL-20328-01 Noninvasive assessment of autonomic cardiac control (dogs)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
** R01HL-21038-01 Electrically induced cardiac EM-histochemical changes (animals)
R01HL-21052-01 Evaluation of a digitalis therapy advisor
R01HL-21117-01 Altitude adaptation in chronic lung disease (human)
R23HL-21151-02 Ischemic myocardium-Delivery ut blood flow and drugs (dogs)
R23HL-21368-02 Perinatal cardiac electrophysiology (dogs)
R01HL-21426-02 Learned heart rate control (human)
** R01HL-21574-01 Automaticity of AV node and its adjacent tissues (dogs)
R01HL-21710-01 Electrocardiographic methods of quantifying infarct size (human, dogs)
R01HL-21817-01 Catecholamines, blood pressure and circulation
R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)
R01HL-22215-01 Effects of exercise-training in ischemic heart disease (human)
** R01HL-22235-01 Mechanism of cardiac pacemaking (rabbits)
** R01HL-22274-01 Quantitating in series effects in cardiac arrhythmias (dogs)
** R01HL-22418-01 Neural control of cardio-respiratory function (cats)
** R01HL-22484-01 Neural control of cardiac conduction and excitation (dogs)
R01HL-22562-02 Mechanism of cardiac action potential propagation (tunicates)
** R01HL-22862-01 CNS-mediated effects of antiarrhythmic drugs (dogs)
R01HL-22982-01 Multicenter postcoronary risk stratification program (human)
** R01HL-23071-01 Electrophysiology of lethal arrhythmias (dog, human)
** R01HL-23599-01 Mechanisms of ischemic rhythm disorders (dogs)
** R01HL-23624-01 Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs)
** R01HL-23970-01 Mechanisms and control of sudden cardiac death (human, dog)
N01HV-62960-00 Techniques to protect ischemic myocardium and minimize infant size (human)

HEART DISORDERS, ARRHYTHMIA, ATRIAL FIBRILLATION

P01HL-08682-15 0038 Regulation of the cardiovascular system - Control of pulmonary circulation (dogs)
** P01HL-11310-12 0071 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial flutter (human)
** P01HL-11310-12 0072 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial tachycardia with block (human)
** P01HL-11310-12 0073 Mechanisms of cardiovascular disease - Electrophysiological study of atrial fibrillation (human)
** P01HL-11310-12 0074 Mechanisms of cardiovascular disease - Electrophysiological studies of paroxysmal atrial tachycardia (human)
P01HL-11310-12 0075 Mechanisms of cardiovascular disease - Bipolar atrial electrograms from Bachmann's bundle (dogs)
** P01HL-13480-09 0032 Cardiac electrophysiology - Cardiac activation sequence (dogs)
P50HL-17667-04 0029 Study of ischemic heart disease - Computer diagnosis of cardiac arrhythmias after open heart surgery (human)
** R01HL-19398-03 Regional conduction abnormalities and arrhythmias (dogs)

HEART DISORDERS, ARRHYTHMIA, BRADYCARDIA

** R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
P01HL-07896-15 0059 Environmental biomedical research program - Hyperoxygenation at elevated atmospheric pressure on myocardial blood flow (dogs)
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
R01HL-13454-08 Behavioral stress and cardiomyopathy (monkeys, cats)
P50HL-14214-07 0029 Newborn lung center for hyaline membrane disease - The diving reflex--Perinatal asphyxia, pulmonary ischemia and HMD (sheep)
P01HL-14388-07 0184 Regulation of the circulation in pathological states - Vestibular reflexes in control of circulation (human)
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
R01HL-15498-06 Effects of physical training on heart (rats)
P50HL-17648-04 0016 Study of ischemic heart disease - Intraventricular conduction--Effect of pacing on conduction and automaticity
R01HL-17903-03 Regional circulatory responses to hypoxia (rats, cats, rabbits)
R01HL-18794-04 Prospective studies of conduction disease (human)
P50HL-19187-02 0011 Pediatric pulmonary SCOR Hyaline membrane disease Effects of hypoxia and hypercapnia on developing nervous system (monkey, human)

HEART DISORDERS, ARRHYTHMIA, HEART BLOCK

R01HL-07605-16 Congenital heart disease research program (human, dogs)
R01HL-09711-13 Instantaneous blood flow in ascending aorta (human, dogs)
** P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
** P01HL-11310-12 0072 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial tachycardia with block (human)
** P01HL-11310-12 0079 Mechanisms of cardiovascular disease - Electrophysiological studies of complete heart block (human)
P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
P01HL-11310-12 0090 Mechanisms of cardiovascular disease - Clinicopathological cardiovascular correlation (human, animals)
P01HL-11310-12 0093 Mechanisms of cardiovascular disease - Multiple dipole electrocardiogram project (human, dogs)
** P01HL-11310-12 9001 Mechanisms of cardiovascular disease - Core support-hospital beds
** P50HL-17648-04 0016 Study of ischemic heart disease - Intraventricular conduction--Effect of pacing on conduction and automaticity
P50HL-17648-04 0018 Study of ischemic heart disease - Myocardial damage--Infarction vectors recalled by premature atrial stimulation
R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL-20597-02 Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits)
** R23HL-21292-01 Human ventricular activation--Patterns and mechanisms (human)
R01HL-22546-02 Baroreceptor reflex mechanisms in man

HEART DISORDERS, ARRHYTHMIA, HEART BLOCK, ATRIOVENTRICULAR

** P01HL-12738-10 0136 Physiologic pharmacology and its clinical applications -
P50HL-17648-04 0016 Study of ischemic heart disease - Intraventricular conduction--Effect of pacing on conduction and automaticity
R01HL-18794-04 Prospective studies of conduction disease (human)

HEART DISORDERS, ARRHYTHMIA, HEART BLOCK, BUNDLE BRANCH

P01HL-12738-10 0127 Physiologic pharmacology and its clinical applications - Cardiac electrical activity (human, animals)
P50HL-17648-04 0016 Study of ischemic heart disease - Intraventricular conduction--Effect of pacing on conduction and automaticity
P50HL-17651-04 0022 Ischemic heart disease specialized center of research - Electrophysiology--Mechanism and pharmacology of arrhythmias (human, dog)
R01HL-18538-03 The role of electrotonus in His-Purkinje function (dog)
R01HL-18794-04 Prospective studies of conduction disease (human)
R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
** R01HL-20238-02 Prospective bundle branch block study (human)
** R01HL-21527-01 Prospective study of bundle branch block (human)
R01HL-23071-01 Electrophysiology of lethal arrhythmias (dog, human)

HEART DISORDERS, ARRHYTHMIA, HEART BLOCK, STOKES-ADAMS SYNDROME

R01HL-18794-04 Prospective studies of conduction disease (human)
** R01HL-21527-01 Prospective study of bundle branch block (human)

HEART DISORDERS, ARRHYTHMIA, PREMATURE VENTRICULAR CONTRACTIONS

** P01HL-06308-18 0044 Mechanisms and therapy of circulatory disease - Echocardiography to determine site of ectopic impulse formation (human, dogs)
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
** P01HL-10539-12 0023 Pathophysiology of circulation - The relaxation response and therapy of disease states (human)
P01HL-11310-12 0075 Mechanisms of cardiovascular disease - Bipolar atrial electrograms from Bachmann's bundle (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-11310-12 0078 Mechanisms of cardiovascular disease - Ventricular arrhythmias in acute myocardial infarction (dogs)
P01HL-11310-12 0079 Mechanisms of cardiovascular disease - Electrophysiological studies of complete heart block (human)
R01HL-12611-10 Basic and clinical studies of the ST-T deflection (human, dogs)
P01HL-12738-10 0080 Physiologic pharmacology and its clinical applications - Electrophysiology of cardiac muscle in the mitral valve (monkeys)
** P01HL-12738-10 0127 Physiologic pharmacology and its clinical applications - Cardiac electrical activity (human, animals)
P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
P50HL-17646-04 0017 Study of ischemic heart disease - Dysrhythmia associated with acute myocardial infarction (human, cat)
P50HL-17648-04 0033 Study of ischemic heart disease - Oata management--Electrocardiographic analysis system
P50HL-17665-04 0018 Study of ischemic heart disease - Computer correlation of data--Patients with ischemic heart disease
P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
P50HL-17670-04 0012 Study of ischemic heart disease - Epidemiology of sudden death (human)
** R01HL-18783-04 Detection and control of ventricular premature beats (human)
M R01HL-18808-04 Prediction and prevention of sudden cardiac death
** R01HL-18808-04 0001 Prediction and prevention of sudden cardiac death - Prognostic significance of premature ventricular contractions (human)
R01HL-18808-04 0003 Prediction and prevention of sudden cardiac death - Technical support (computer)
R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
R01HL-19391-03 Dynamic determinants of left ventricular filling (dogs)
R01HL-20238-02 Prospective bundle branch block study (human)
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
R23HL-21347-02 Accessory pathways and supraventricular tachycardia
R01HL-21574-01 Automaticity of AV node and its adjacent tissues (dogs)
R01HL-21654-01 Autonomic determinants of arrhythmia due to ischemia (cats)
R01HL-21735-01 Electrophysiology after healed myocardial infarction (cats)
R01HL-22215-01 Effects of exercise-training in ischemic heart disease (human)
R01HL-23078-01 Psychosocial stress and sudden coronary death (human)
R01HL-23599-01 Mechanisms of ischemic rhythm disorders (dogs)

HEART DISORDERS, ARRHYTHMIA, TACHYCARDIA

** R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
** P01HL-06308-18 0029 Mechanisms and therapy of circulatory disease - Characterization of the patient with recurrent ventricular arrhythmias
** P01HL-06308-18 0044 Mechanisms and therapy of circulatory disease - Echocardiography to determine site of ectopic impulse formation (human, dogs)
P01HL-08682-15 0017 Regulation of the cardiovascular system - Neurally induced cardiac dysrhythmias (dog)
** P01HL-11310-12 0072 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial tachycardia with block (human)
** P01HL-11310-12 0074 Mechanisms of cardiovascular disease - Electrophysiological studies of paraxysmal atrial tachycardia (human)
P01HL-11310-12 0075 Mechanisms of cardiovascular disease - Bipolar atrial electrograms from Bachmann's bundle (dogs)
** P01HL-11310-12 0090 Mechanisms of cardiovascular disease - Clinicopathological cardiovascular correlation (human, animals)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
** P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
R01HL-13920-07 Expanding the role of surgery of atrial dysrhythmias (dogs)
R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
** R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
P50HL-17665-04 0018 Study of ischemic heart disease - Computer correlation of data--Patients with ischemic heart disease
P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
P50HL-17667-04 0029 Study of ischemic heart disease - Computer diagnosis of cardiac arrhythmias after open heart surgery (human)
P50HL-17682-04 0001 Study of ischemic heart disease - Studies in acute and chronic ischemic heart disease (human)
R01HL-18468-03 The distribution of flow in the myocardium (dog, pig)
R01HL-18657-03 Pharmacologic studies on neurogenic digitalis effects (human, cats, dogs)
R01HL-18769-04 Studies in survivors of lethal arrhythmias (human)
R01HL-18794-04 Prospective studies of conduction disease (human)
R01HL-18808-04 0001 Prediction and prevention of sudden cardiac death - Prognostic significance of premature ventricular contractions (human)
** R01HL-19398-03 Regional conduction abnormalities and arrhythmias (dogs)
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
** R23HL-21292-01 Human ventricular activation--Patterns and mechanisms (human)
** R23HL-21347-02 Accessory pathways and supraventricular tachycardia
R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)
R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
R01HL-23071-01 Electrophysiology of lethal arrhythmias (dog, human)

HEART DISORDERS, ARRHYTHMIA, VENTRICULAR FIBRILLATION

R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
** P01HL-06308-18 0010 Mechanisms and therapy of circulatory disease - Ventricular arrhythmias during exercise to CHD and myocardial ischemia (human)
** P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
** P01HL-06308-18 0029 Mechanisms and therapy of circulatory disease - Characterization of the patient with recurrent ventricular arrhythmias
** P01HL-06308-18 0037 Mechanisms and therapy of circulatory disease - Electrophysiology, blood flow, and ANS in ventricular fibrillation (dogs)
** P01HL-06308-18 0038 Mechanisms and therapy of circulatory disease - Electrophysiology of ventricualr arrhythmias associated with ischemia (dogs)
** P01HL-06308-18 0044 Mechanisms and therapy of circulatory disease - Echocardiography to determine site of ectopic impulse formation (human, dogs)
** R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
** P01HL-11310-12 0078 Mechanisms of cardiovascular disease - Ventricular arrhythmias in acute myocardial infarction (dogs)
R01HL-12611-10 Basic and clinical studies of the ST-T deflection (human, dogs)
R01HL-12715-10 Dynamic cardiovascular measurement using ultrasound
** P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
** P01HL-12738-10 0117 Physiologic pharmacology and its clinical applications - Ventricular arrhythmias in ischemic heart disease (human)
** P01HL-12738-10 0122 Physiologic pharmacology and its clinical applications - Coronary perfusion of beating and fibrillating hearts (dogs)
** P01HL-12738-10 0132 Physiologic pharmacology and its clinical applications - Coronary occlusions and arrhythmias (dogs)
** P01HL-12738-10 0136 Physiologic pharmacology and its clinical applications -
** P01HL-13480-09 0032 Cardiac electrophysiology - Cardiac activation sequence (dogs)
** R01HL-13974-07 Ventricular premature beats and sudden coronary death (human)
R01HL-15247-05 Extending the life of implanted pacemakers (dogs, human)
** R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
R01HL-16292-05 0002 Surgery and non-obstructive coronary insufficiency - Effects of hypothermia during cardiopulmonary bypass (dogs)
R01HL-16292-05 0017 Surgery and non-obstructive coronary insufficiency - Cardiopulmonary resuscitation (human)
R01HL-17367-05 Functional sympathetic development in neonatal hearts (dogs, human)
P50HL-17646-04 0017 Study of ischemic heart disease - Dysrhythmia associated with acute myocardial infarction (human, cat)
P50HL-17655-04 0001 Study of ischemic heart disease - Intravenous nitroglycerin--Ventricular function and infarct size (human, dog)
** R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
** R01HL-18040-04 Waveform dependency in defibrillation (calves)
R01HL-18769-04 Studies in survivors of lethal arrhythmias (human)
** R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
R01HL-18798-04 0003 Nervous and ionic factors in sudden cardiac death - Left stellectomy in the prevention of sudden death (dogs)
** R01HL-18805-04 0004 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Clinical follow-up and therapy (human)
R01HL-18805-04 0007 Sudden cardiac death and the onset of myocardial infarction - Analysis of pathologic factors involved in sudden death (human)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-20226-02 Cardiac bypass and coronary collateral physiology (dogs)
** R01HL-20648-01 Physical factors and coronary flow (dogs)
** R23HL-21292-01 Human ventricular activation--Patterns and mechanisms (human)
** R01HL-21654-01 Autonomic determinants of arrhythmia due to ischemia (cats)
** R01HL-21674-01 Development of automatic implanted defibrillator (dogs, cattle)
** R01HL-21735-01 Electrophysiology after healed myocardial infarction (cats)
R01HL-23071-01 Electrophysiology of lethal arrhythmias (dog, human)

HEART DISORDERS, CARDIAC TAMPONADE

R01HL-13623-08 Atrial receptors (dogs)
R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)

HEART DISORDERS, CARDIOGENIC SHOCK

** P01HL-06312-17 0052 Surgical cardiology - Assay of metabolic variables of rat heart
P01HL-11310-12 0062 Mechanisms of cardiovascular disease - Myocardial depressant factor in postoperative cardiac dysfunction (human, dogs)
P01HL-12738-10 0071 Physiologic pharmacology and its clinical applications - IABP patient management in ventricular power failure (human)
P01HL-12738-10 0123 Physiologic pharmacology and its clinical applications - Ventricular assistance and preservation (human, dogs)
P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and evaluation of left ventricular bypass pumps (human, cattle)
** P01HL-13737-07 0028 Assisted circulation - Clinical studies of intraaortic balloon pumping
P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
** R01HL-15607-06 Physiological control of splanchnic circulation (dogs)
** R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
** R01HL-16233-05 Molecular cardiology of MDP-induced left ventricular failure (dogs)
P60HL-17269-04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat)
** P60HL-17269-04 0029 National heart and blood vessel research and demonstration center - Clinical application of circulatory assistance (human)
P50HL-17646-04 0015 Study of ischemic heart disease - Protecting ischemic myocardium in patients with evolving myocardial infarction
P50HL-17648-04 0011 Study of ischemic heart disease - Surgical treatment for acute myocardial ischemia (human, dogs)
** P50HL-17665-04 0003 Study of ischemic heart disease - Quantitation of injury--Acute myocardial infarction complicated by shock (human)
P50HL-17665-04 0012 Study of ischemic heart disease - Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog
P50HL-17667-04 0038 Study of ischemic heart disease - Clinical core unit
R01HL-18190-03 Myocardial blood flow in acute myocardial infarction (human, dogs)
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-18731-02 RES stimulating materials in experimental shock (dogs)
R01HL-19000-03 Irreversible myocardial injury (rats)
P50HL-19153-02 0006 SCOR-Pulmonary edemas--Etiology, pathogenesis - Pulmonary vascular abnormalities in human lung diseases
R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)

HEART DISORDERS, CORONARY

SEE ALSO CARDIOVASCULAR AGENTS, VASODILATORS, CORONARY
SEE ALSO HEART DISORDERS, SUDDEN DEATH
SEE ALSO HEART REVASCULARIZATION
SEE ALSO HOSPITALS, INTENSIVE CARE UNITS, CORONARY
R01HL-01803-23 0005 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic and dietary synergy in the pathogenesis of atherosclerosis (rabbits)
R01HL-01979-22 Arteriosclerosis in zoo animals on controlled diets (animals)
R01HL-03341-22 Epidemiology of atherosclerosis in Evans Co Georgia
** R01HL-03429-18 Central nervous system and coronary heart disease (human)
M P01HL-04664-18 Cardiovascular and lung dynamics
P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
P01HL-04664-18 0012 Cardiovascular and lung dynamics - Quantitative single plane left ventricular angiography (human)
** P01HL-04664-18 0013 Cardiovascular and lung dynamics - Ventricular function in coronary disease using NTG and ventriculograms (human)
P01HL-04664-18 0015 Cardiovascular and lung dynamics - Computer system for the cardiovascular laboratory
** R01HL-04697-17 International heart disease epidemiology (human)
R01HL-05694-20 Functional pathology of cardiovascular disease (human)
R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)
** P01HL-06296-18 0003 Cardiovascular and pulmonary adaptation to stress - Human exercise studies (human, dogs)
M P01HL-06308-18 Mechanisms and therapy of circulatory disease
** P01HL-06308-18 0010 Mechanisms and therapy of circulatory disease - Ventricular arrhythmias during exercise to CHD and myocardial ischemia (human)
** P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
P01HL-06308-18 0038 Mechanisms and therapy of circulatory disease - Electrophysiology of ventricualr arrhythmias associated with ischemia (dogs)
** P01HL-06308-18 0043 Mechanisms and therapy of circulatory disease - Exercise and echocardiographic examining techniques (human)
P01HL-06312-17 0053 Surgical cardiology - Enzyme pattern following cardiac surgery (human)
** P01HL-06835-17 0063 Cardiovascular disease - Studies on prostaglandins (human, rabbits)
** P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
M P01HL-07293-17 Non-invasive cardiovascular measurements
** P01HL-07293-17 0041 Non-invasive cardiovascular measurements - Ventricular volumes and dimensions (human)
P01HL-07293-17 0043 Non-invasive cardiovascular measurements - ECHO-Doppler instrumentation for cardiac measurements (human)
P01HL-07293-17 0052 Non-invasive cardiovascular measurements - Clinical evaluation of the duplex scanner (human)
P01HL-07293-17 0053 Non-invasive cardiovascular measurements - Clinical evaluation of cardiac dimensions using the duplex scanner (human)
P01HL-07293-17 0058 Non-invasive cardiovascular measurements - Peripheral duplex scanner physiologic evaluation
P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
R01HL-08311-14 Effects of drugs upon myocardial hypoxia (dogs, turtles)
** R01HL-08888-12 Cooperative study of drugs and coronary heart disease (men)
** R01HL-08892-10 Cooperative study of drugs and coronary heart disease
M P01HL-08974-14 Natural and experimental atherosclerosis
** P01HL-08974-14 0005 Natural and experimental atherosclerosis - Atherosclerosis, coronary heart disease and sudden death (human)
** P01HL-08974-14 0028 Natural and experimental atherosclerosis - Geographic pathology of atherosclerosis and coronary heart disease (human)
** R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
** R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
** R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
M P01HL-10539-12 Pathophysiology of circulation
** R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
M P01HL-11310-12 Mechanisms of cardiovascular disease
P01HL-11310-12 0081 Mechanisms of cardiovascular disease - Analysis of regional left ventricular function (human)
P01HL-11310-12 0084 Mechanisms of cardiovascular disease - Evaluation of cardiac function in chronic renal failure (human)
** R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)
** R01HL-11876-11 Regional myocardial blood flow and metabolism (dogs, swine)
P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Determinants of performance of the whole heart (dogs)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
** P01HL-12738-10 0071 Physiologic pharmacology and its clinical applications - IABP patient management in ventricular power failure (human)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
M P01HL-13108-09 Clinical heart transplantation
** P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
** P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
** P01HL-13108-09 0022 Clinical heart transplantation - Studies on cardiac receptors (human)
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and evaluation of left ventricular bypass pumps (human, cattle)
** P01HL-13480-09 0028 Cardiac electrophysiology - Stress electrocardiography (human, dogs)
P01HL-13737-07 0028 Assisted circulation - Clinical studies of intraaortic balloon pumping
P01HL-13737-07 0033 Assisted circulation - Autologous bioprosthetic grafts for coronary artery bypass surgery (human, dogs)
P01HL-13737-07 0038 Assisted circulation - Distinguishing the ischemic ventricle from scarred ventricle by balloon pumping
** R01HL-13974-07 Ventricular premature beats and sudden coronary death (human)
P50HL-14138-05 0010 Center for research on atherosclerosis - Diet and exercise as therapy in men with premature atherosclerosis
P50HL-14230-07 0088 A/S SCOR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
P50HL-14230-07 0097 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)
** P50HL-14236-05 0002 Prevention of premature arteriosclerosis - Myocardial blood flow in patients with coronary artherosclerosis
** R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
R01HL-14688-05 Myocardial assessment by inverse electrocardiography (monkey)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
M P01HL-15194-07 Pathophysiology of cardiopulmonary dysfunction
** P01HL-15194-07 0001 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, venous drainage and collateral flow (human, dogs)
** P01HL-15194-07 0019 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, bypass grafts and diastolic driving pressure (human, dogs)
** P01HL-15194-07 0020 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation in arteriographically normal arteries (human)
** R01HL-15374-03 Cooperative study of drugs and coronary heart disease (human)
** R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)
R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
P01HL-16117-05 0007 Ion movements and membranes in cardiovascular control Physiological and molecular properties of ionophores (dogs, rabbits)
R01HL-16233-05 Molecular cardiology of MOP-induced left ventricular failure (dogs)
M R01HL-16292-05 Surgery and non-obstructive coronary insufficiency
R01HL-16403-05 Prognostication by computer-Analyzed vectorcardiogram (human)
R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)
R01HL-16484-04 Radiographic ventriculometry for coronary heart disease (human)
** R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
** R01HL-16908-04 Myocardial function, risk factors and future CHD (men)
** R01HL-16909-04 Myocardial function, risk factors and future CHD (men)
** P01HL-16910-05 0002 Regulation of the peripheral circulation - Coronary circulation (dogs)
R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
** R01HL-17246-03 Oxygen uptake at one minute of exercise (human)
M P60HL-17269-04 National heart and blood vessel research and demonstration center
P60HL-17269-04 0039 National heart and blood vessel research and demonstration center - Health care services to patients in neighborhood clinics
** R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
R01HL-17341-03 Practical total synthesis of prostaglandins
** R01HL-17408-03 Fresh blood rheology--Relation to cardiovascular risk (human)
** R01HL-17580-04 The impact of stress on coronary heart disease (men)
P50HL-17646-04 0010 Study of ischemic heart disease - Compliance in ischemic myocardium--Altered cardiac performance (human, dogs)
** P50HL-17648-04 0004 Study of ischemic heart disease - Radionuclide imaging studies (human, pig)
** P50HL-17648-04 0006 Study of ischemic heart disease - Ventricular performance and myocardial perfusion in obstructive coronary disease
** P50HL-17648-04 0016 Study of ischemic heart disease - Intraventricular conduction--Effect of pacing on conduction and automaticity
** P50HL-17648-04 0020 Study of ischemic heart disease - Core pathology laboratory--Ischemic heart disease (human, animal)
M P50HL-17651-04 Ischemic heart disease specialized center of research
** P50HL-17655-04 0006 Study of ischemic heart disease - Evaluation of coronary artery bypass graft surgery (human)
** P50HL-17655-04 0011 Study of ischemic heart disease - Core facility--Cardiovascular nuclear medicine (human, dog)
M P50HL-17665-04 Study of ischemic heart disease
** P50HL-17665-04 0018 Study of ischemic heart disease - Computer correlation of data--Patients with ischemic heart disease
M P50HL-17667-04 Study of ischemic heart disease
** P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
** P50HL-17667-04 0019 Study of ischemic heart disease - Assessment of long-term results of coronary artery bypass grafting (human)
** P50HL-17667-04 0038 Study of ischemic heart disease - Clinical core unit
** P50HL-17667-04 0039 Study of ischemic heart disease - Core human investigative laboratories
** P50HL-17667-04 0040 Study of ischemic heart disease - Core biochemistry--Cardiac metabolism (human)
** P50HL-17667-04 0041 Study of ischemic heart disease - Biophysical sciences core--Data collection and retrieval
P50HL-17667-04 0044 Study of ischemic heart disease - Core--Data management and analysis
M P50HL-17670-04 Study of ischemic heart disease
** P50HL-17670-04 0001 Study of ischemic heart disease - Data management
P50HL-17670-04 0005 Study of ischemic heart disease - Quantitative assessment of the vectorcardiogram (human)
P50HL-17670-04 0008 Study of ischemic heart disease - Surgical treatment of cardiac rhythm disorders (human, dogs)
** P50HL-17670-04 0012 Study of ischemic heart disease - Epidemiology of sudden death (human)
** P50HL-17670-04 0015 Study of ischemic heart disease - Radionuclide studies of myocardial ischemia (human)
** P50HL-17670-04 0016 Study of ischemic heart disease - Core pathology laboratory (human, dogs, monkeys)
** P50HL-17670-04 0017 Study of ischemic heart disease - Core enzymology laboratory (human)
** P50HL-17670-04 0018 Study of ischemic heart disease - Core electrocardiogram laboratory (human)
M P50HL-17682-04 Study of ischemic heart disease
R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
** R01HL-17809-04 Effects of exercise on the coronary vasculature (rat, dog)
** R01HL-18060-04 Exercise and coronary atherosclerotic heart disease (monkeys)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-18235-03 Cardiovascular fitness and other risk factors (human)
** P50HL-18318-03 0018 Pathogenesis and complications of hypertension - Plasma renin activity in chronic ischemic heart disease (human)
** R01HL-18589-03 Psychosocial factors and outcome in coronary disease (human)
** R01HL-18692-03 Glycosaminoglycans and lipoproteins of human plasma
** R01HL-18783-04 Detection and control of ventricular premature beats (human)
** R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
** R01HL-18805-04 0004 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Clinical follow-up and therapy (human)
** R01HL-18805-04 0007 Sudden cardiac death and the onset of myocardial infarction - Analysis of pathologic factors involved in sudden death (human)
R01HL-18850-03 Classification code for Frank orthogonal ECG
** R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
** R01HL-19109-03 Regression of chronic atherosclerosis (rabbits)
** R01HL-19112-03 Atherosclerosis studies (monkeys)
P50HL-19170-02 0001 Harvard pulmonary SCOR--Chronic diseases of the airways - Natural history, reversibility of pulmonary abnormalities in smokers (human)
** R01HL-19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
R01HL-19218-03 Local regulation of coronary flow by prostaglandins (rabbits)
R01HL-19370-03 Coronary capillary exchange--The effects of ischemia (dogs, sheep)
M R01HL-19451-03 Functional characteristics of the left heart
** R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
** R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
** R01HL-19567-03 Impact of emotion on coronary arteries (human)
** R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
** R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)
** R01HL-20080-02 Surgically induced myocardial edema (dogs)
** R01HL-20374-03 Myocardial function--Risk factors and future CHD (human)
** R01HL-20428-03 The juvenile diabetic heart (human)
** R01HL-20597-02 Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits)
** R01HL-20662-02 Physical activity, fitness and epidemiology of CHD
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R01HL-20807-02 Detection of familial hypercholesterolemia (human)
R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
** R01HL-20895-03 0002 Cineangiographic studies of cardiovascular system - Coronary disease--Regional myocardial blood flow (human, dog)
R01HL-20895-03 0006 Cineangiographic studies of cardiovascular system - Cardiomyopathy--Hemodynamic, radiologic, morphologic abnormalities (dog, rabbit)
R01HL-20910-02 The alternative diet for coronary disease prevention (human)
R01HL-20924-02 Atherosclerosis and arterial cell functions (human, rabbits)
** P50HL-21006-02 0005 Specialized center of research in arteriosclerosis - Regional myocardial perfusion in patient with coronary artery disease (also dogs)
** R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
R01HL-21260-02 Risk factor relationships of atherosclerosis (monkeys)
** R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
** R01HL-21293-02 Randomized study of coronary bypass surgery (human)
** R01HL-21319-02 Interpersonal stress and coronary-prone behavior (human)
** R01HL-21654-01 Autonomic determinants of arrhythmia due to ischemia (cats)
R01HL-21912-01 Biosynthesis of lipoic acid and atherosclerosis (birds, chick embryos)
** R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)
** R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
R01HL-22255-01 The etiology/prevalence of peripheral arterial disease (human)
** R01HL-22378-01 Psyco-somatic predictors of CHD in adolescence (human)
R01HL-22445-01 Platelet inhibitors--Effect on coronary bypass grafts (dogs)
** R01HL-22514-01 Behavior patterns, stress, and catecholamines
R01HL-22567-01 Validation of a cholesterol absorption method in man
** R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
R01HL-22740-01 Behavior and cardiovascular disease--Basic mechanisms (human)
R01HL-22750-01 Digoxin in heart failure with sinus rhythm (human)
R01HL-22759-01 Regional myocardial blood flow during hypothermia (dogs)
R01HL-22801-01 Analysis of coronary artery behavior (dogs)
R01HL-22809-01 Coronary-prone behavior and cardiovascular reactivity (human)
R01HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)
** R01HL-23078-01 Psychosocial stress and sudden coronary death (human)
** N01HV-12156-10 Lipid research clinic
** N01HV-12157-14 Lipid research clinic (human)
** N01HV-12158-10 Establishment of a lipid research clinic
** N01HV-12159-09 Lipid research clinic
** N01HV-12160-15 Establishment of a lipid research clinic
** N01HV-22913-09 Lipid research clinic
** N01HV-22914-08 Establishment of a lipid research clinic
** N01HV-22915-11 Establishment of lipid research clinic
N01HV-22916-16 Establishment of a lipid research clinic
N01HV-22917-11 Lipid research clinic (human)
** N01HV-22932-09 Establishment of a lipid research clinic
** N01HV-22971-07 Prevention of coronary heart disease (human)
** N01HV-22976-07 Multiple risk factor intervention trial, prevention of coronary heart disease
** N01HV-22977-08 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-22979-07 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-22981-10 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
** N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-32931-09 Establishment of a lipid research clinic center
N01HV-32975-08 Collaborative studies on coronary artery surgery (human)
N01HV-32976-09 Collaborative studies on coronary artery surgery (human)
N01HV-32980-07 Collaborative studies on coronary artery surgery (human)
N01HV-32981-10 Collaborative studies on coronary artery surgery (human)
N01HV-32983-11 Collaborative studies on coronary artery surgery (human)
N01HV-32984-10 Collaborative studies on coronary artery surgery (human)
** N01HV-33101-06 Development and conduct of a multiple risk factor intervention trial (human)
** N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
** N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-33108-04 Prevention of coronary heart disease (human)
** N01HV-33109-04 Intervention trial for the prevention of coronary heart disease (human)
** N01HV-33110-04 Prevention of coronary heart disease (human)
** N01HV-42902-08 Epidemiological studies of coronary heart disease (human)
** N01HV-42911-07 ECG center for prevention of coronary heart disease (human)
** N01HV-42929-08 Risk factor intervention trial for the prevention of CHD (human)
** N01HV-42930-09 Risk factor intervention trial for the prevention of CHD (human)
** N01HV-42931-07 Risk factor intervention trail for the prevention of CHD (men)
** N01HV-42932-05 Risk factor intervention trial for the prevention of CHD (human)
** N01HV-42933-09 Multiple risk factors in coronary heart disease (human)
N01HV-52901-06 Aspirin-myocardial infarction study
** N01HV-52941-04 Center for aspirin-myocardial infarction study (human)
** N01HV-62955-04 Data collection in clinical pathology and morbid anatomy (men)

HEART DISORDERS, CORONARY, ANGINA PECTORIS

SEE ALSO HEART DISORDERS, CORONARY, MYOCARDIAL ISCHEMIA AND HYPOXIA

P01HL-06285-18 0156 Cardiovascular-respiratory physiology and biochemistry - Myocardial performance following revascularization (human)
P01HL-06296-18 0003 Cardiovascular and pulmonary adaptation to stress - Human exercise studies (human, dogs)
P01HL-08682-15 0018 Regulation of the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)
P01HL-11310-12 0092 Mechanisms of cardiovascular disease - Exercise electrophysiology (human)
P01HL-13737-07 0037 Assisted circulation - Clinical measurement of blood flow through aorto-coronary vein bypass graft
R01HL-14148-07 0009 The regional circulations - Myocardial circulation in hypertension and atherosclerosis (human)
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
** R01HL-15191-07 Multiparameter methods for cardiovascular research
P01HL-15194-07 0020 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation in arteriographically normal arteries (human)
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
** R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
P50HL-17648-04 0004 Study of ischemic heart disease - Radionuclide imaging studies (human, pig)
P50HL-17648-04 0012 Study of ischemic heart disease - Retrograde coronary venous perfusion--Acute myocardial ischemia
P50HL-17651-04 0002 Ischemic heart disease specialized center of research - Reduction of myocardial ishemic injury by pharmacologic agents (human, dog)
P50HL-17651-04 0046 Ischemic heart disease specialized center of research - Clinical core--Physiological changes/biochemical effects of myocardial ischemia
P50HL-17655-04 0004 Study of ischemic heart disease - Coronary arteriography in survivors of acute myocardial infarction (human)
P50HL-17655-04 0006 Study of ischemic heart disease - Evaluation of coronary artery bypass graft surgery (human)
** P50HL-17655-04 0009 Study of ischemic heart disease - Random trial of medical and surgical therapy in unstable angina (human)
P50HL-17655-04 0011 Study of ischemic heart disease - Core facility--Cardiovascular nuclear medicine (human, dog)
P50HL-17665-04 0003 Study of ischemic heart disease - Quantitation of injury--Acute myocardial infarction complicated by shock (human)
** P50HL-17665-04 0005 Study of ischemic heart disease - Evaluation of zone of jeopardized myocardium in patients with angina pectoris
** P50HL-17665-04 0013 Study of ischemic heart disease - National cooperative study in unstable angina pectoris (human)
P50HL-17665-04 0018 Study of ischemic heart disease - Computer correlation of data--Patients with ischemic heart disease
P50HL-17665-04 0022 Study of ischemic heart disease - Effect of coronary revascularization on left ventricular function (human)
P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
P50HL-17667-04 0038 Study of ischemic heart disease - Clinical core unit
P50HL-17669-04 0008 Ischemic heart disease center (SCOR) - Segmental ventricular dysfunction during stress-induced ischemia (dog, human)
P50HL-17669-04 0013 Ischemic heart disease center (SCOR) - Exercise in patients with ischemic heart disease
P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
P50HL-17670-04 0014 Study of ischemic heart disease - Real time ultrasound imaging in ischemic heart disease (human, dog)
P50HL-17670-04 0015 Study of ischemic heart disease - Radionuclide studies of myocardial ischemia (human)
P50HL-17682-04 0001 Study of ischemic heart disease - Studies in acute and chronic ischemic heart disease (human)
P50HL-17682-04 0003 Study of ischemic heart disease - Effects of myocardial revascularization in man
** P50HL-17682-04 0008 Study of ischemic heart disease - Clinical core unit
R01HL-18190-03 Myocardial blood flow in acute myocardial infarction (human, dogs)
R01HL-18783-04 Detection and control of ventricular premature beats (human)
P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
** R01HL-18984-01 P50 effect on exercise limit in stable angina (human)
** R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-20598-03 The coronary vascular response to ischemia (dogs, pigs)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P50HL-21006-02 0005 Specialized center of research in arteriosclerosis Regional myocardial perfusion in patient with coronary artery disease (also dogs)
R01HL-21172-02 Regional oxygen consumption of heart and other organs (animals)
R01HL-21293-02 Randomized study of coronary bypass surgery (human)
R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction
R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies--Ischemia and infarction
R01HL-21817-01 Catecholamines, blood pressure and circulation
** R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)
** R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)
** R01HL-22732-01 Central organization of cardiac afferent nerves (cats, monkeys)
N01HV-53010-03 NAS-NRC twin registry
** N01HV-53027-05 Data coordinating center for the unstable angina pectoris study

HEART DISORDERS, CORONARY, MYOCARDIAL INFARCT

SEE ALSO HEART DISORDERS DIAGNOSIS, MYOCARDIAL INFARCT SIZING

R01HL-01803-23 0015 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic endothelial injury and lipid diet atherosclerosis (rabbits, monkey)
** R01HL-03180-21 Relation of lymphatics to cardiopulmonary function (dogs)
R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
** P01HL-06285-18 0164 Cardiovascular-respiratory physiology and biochemistry - CPK MB isoenzyme concentration to quantify infarct size (human, animals)
P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
** P01HL-06308-18 0035 Mechanisms and therapy of circulatory disease - Mechanisms for electrophysiological changes in myocardial infarction (dogs)
** P01HL-06308-18 0042 Mechanisms and therapy of circulatory disease - Echocardiographic assessment of arrhythmias--Myocardial tissue type (human, dogs)
** P01HL-06308-18 0043 Mechanisms and therapy of circulatory disease - Exercise and echocardiographic examining techniques (human)
** P01HL-06312-17 0016 Surgical cardiology - Effect of hydralazine on infarct size following coronary occlusion (human)
P01HL-06312-17 0025 Surgical cardiology - Effect of denervation on arrhythmias and function with coronary occlusion (dogs)
** P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
** P01HL-06664-17 0034 Cardiopulmonary function in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
** R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
** R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
** P01HL-10539-12 0031 Pathophysiology of circulation - Post myocardial infarction care--Psychological aspects (human)
** P01HL-10539-12 0064 Pathophysiology of circulation - Exercise physiology and pathophysiology (human)
** P01HL-11310-12 0078 Mechanisms of cardiovascular disease - Ventricular arrhythmias in acute myocardial infarction (dogs)
P01HL-11310-12 0091 Mechanisms of cardiovascular disease - Noninvasive techniques in cardiovascular diagnosis (human)
P01HL-11310-12 0093 Mechanisms of cardiovascular disease - Multiple dipole electrocardiogram project (human, dogs)
** P01HL-11310-12 9001 Mechanisms of cardiovascular disease - Core support-hospital beds
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
** P01HL-11414-11 0034 Thrombosis and atherosclerosis program - Servo simulation--Experimental myocardial infarction (dogs)
** P01HL-11678-11 0020 Cardiovascular dynamics and their control - Circulatory and pulmonary fluid dynamics during pulmonary edema
R01HL-11876-11 Regional myocardial blood flow and metabolism (dogs, swine)
** R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
** R01HL-12611-10 Basic and clinical studies of the ST-T deflection (human, dogs)
P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
P01HL-12738-10 0117 Physiologic pharmacology and its clinical applications - Ventricular arrhythmias in ischemic heart disease (human)
** P01HL-12738-10 0127 Physiologic pharmacology and its clinical applications - Cardiac electrical activity (human, animals)
P01HL-12738-10 0132 Physiologic pharmacology and its clinical applications - Coronary occlusions and arrhythmias (dogs)
P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
** R01HL-13426-09 Left ventricular bypass for myocardial infarction (cattle, human)
P01HL-13480-09 0017 Cardiac electrophysiology - Body surface potential mapping (human, dogs)
** P01HL-13737-07 0030 Assisted circulation - Myocardial ischemia--Effects of phase-shift balloon pumping (dogs)
** P01HL-13737-07 0036 Assisted circulation - Assessment of infarct size from hemodynamic measurements
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
** P50HL-14141-05 0001 SCOR for atherosclerosis in childhood - Clinical implications (infants and children)
R01HL-14148-07 0009 The regional circulations - Myocardial circulation in hypertension and atherosclerosis (human)
P01HL-14388-07 0218 Regulation of the circulation in pathological states - Regional myocardial dyskinesis--Cause assessment and reduction (dogs)
** P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and Infarction in animals (dogs)
** P01HL-14388-07 0221 Regulation of the circulation in pathological states - Experimental myocardial infarction (dogs)
** R01HL-14571-05 Myocardial preservation and coronary reperfusion (baboons, dogs)
** R01HL-14646-05 Pathophysiology of myocardial ischemia (dogs, rats)
R01HL-14651-05 Mechanical behavior of left ventricle (dogs, rats)
R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
R01HL-14785-07 Ultrasonic scattering for tissue characterization (dogs, cattle, human)
R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
R01HL-15016-07 New concepts in cardiac ultrasound technology (human)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
P01HL-15194-07 0011 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Oxygen effects on intrapulmonary shunting (human)
** P01HL-15194-07 0025 Pathophysiology of cardiopulmonary dysfunction - Myoglobinemia as an index of myocardial ischemia and infarction
R01HL-15247-05 Extending the life of implanted pacemakers (dogs, human)
R01HL-15308-07 Assays for peptides of lipoproteins (human)
R01HL-15374-03 Cooperative study of drugs and coronary heart disease (human)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
** R01HL-15498-06 Effects of physical training on heart (rats)
** R01HL-15607-06 Physiological control of splanchnic circulation (dogs)
R01HL-15622-05 Computer simulation in cardiology (rats, dogs)
** R01HL-15790-06 Follow-up study of acute coronary heart attacks (human)
** R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)
** R01HL-16553-05 Diagnosis of myocardial infarction by radioisotopes (mice, rats, goats)
** R01HL-16901-05 Multipolar linkage between heart geometry and surface (human, dogs)
** P60HL-17269-04 0007 National heart and blood vessel research and demonstration center - Correlative studies of experimental myocardial ischemia (dog)
P60HL-17269-04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat)
P60HL-17269-04 0029 National heart and blood vessel research and demonstration center - Clinical application of circulatory assistance (human)
P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
R01HL-17452-04 Depolarization induced cardiac automaticity (human, animals)
** R01HL-17532-04 Infarct size--ECG, angio, path, correlation in dogs
M P50HL-17646-04 Study of ischemic heart disease
** P50HL-17646-04 0001 Study of ischemic heart disease Core clinical investigation unit
** P50HL-17646-04 0002 Study of ischemic heart disease - Core data management
P50HL-17646-04 0004 Study of ischemic heart disease - Core experimental animal laboratories
** P50HL-17646-04 0005 Study of ischemic heart disease - Biochemical markers and mediators of myocardial ischemic injury
P50HL-17646-04 0006 Study of ischemic heart disease - Mathematical models for predicting infarct size using CPK and other markers
** P50HL-17646-04 0007 Study of ischemic heart disease - Prediction of myocardial ischemic injury by analysis of plasma CPK isoenzymes
** P50HL-17646-04 0010 Study of ischemic heart disease - Compliance in ischemic myocardium--Altered cardiac performance (human, dogs)
P50HL-17646-04 0012 Study of ischemic heart disease - Role of microcirculation in progression of myocardial ischemic injury (rat)
** P50HL-17646-04 0013 Study of ischemic heart disease - Maintenance of myocardial vascular integrity after revascularization (dogs)
** P50HL-17646-04 0014 Study of ischemic heart disease - Progression of ischemic injury in conscious dogs (also rabbits)
** P50HL-17646-04 0015 Study of ischemic heart disease - Protecting ischemic myocardium in patients with evolving myocardial infarction
** P50HL-17646-04 0017 Study of ischemic heart disease - Dysrhythmia associated with acute myocardial infarction (human, cat)
M P50HL-17648-04 Study of ischemic heart disease
P50HL-17648-04 0004 Study of ischemic heart disease - Radionuclide imaging studies (human, pig)
** P50HL-17648-04 0011 Study of ischemic heart disease - Surgical treatment for acute myocardial ischemia (human, dogs)
P50HL-17648-04 0012 Study of ischemic heart disease - Retrograde coronary venous perfusion--Acute myocardial ischemia
** P50HL-17648-04 0018 Study of ischemic heart disease - Myocardial damage--Infarction vectors recalled by premature atrial stimulation
P50HL-17648-04 0020 Study of ischemic heart disease - Core pathology laboratory--Ischemic heart disease (human, animal)
** P50HL-17648-04 0021 Study of ischemic heart disease - Biventricular contractile responses to acute myocardial infarction (mammals)
** P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
M P50HL-17651-04 Ischemic heart disease specialized center of research
** P50HL-17651-04 0015 Ischemic heart disease specialized center of research - Peripheral circulation in acute myocardial ischemia and infarction (human)
** P50HL-17651-04 0016 Ischemic heart disease specialized center of research - Retroperfusion of coronary venus circulation with therapeutic agents (dogs)
P50HL-17651-04 0023 Ischemic heart disease specialized center of research - Development of multipurpose catheter for monitoring and electronic pacing
P50HL-17651-04 0036 Ischemic heart disease specialized center of research - Core facilities--Cardiovascular pathology (human, dog)
P50HL-17651-04 0038 Ischemic heart disease specialized center of research - Cardiothermography (human, dog)
** P50HL-17651-04 0039 Ischemic heart disease specialized center of research - Measurement and prediction of infarct size (human, dog)
P50HL-17651-04 0044 Ischemic heart disease specialized center of research - Limb blood flow after myocardial revascularization (human)
** P50HL-17651-04 0045 Ischemic heart disease specialized center of research - Peripheral vascular studies--Pharmacology (dogs, human)
P50HL-17651-04 0046 Ischemic heart disease specialized center of research - Clinical core--Physiological changes/biochemical effects of myocardial ischemia
M P50HL-17655-04 Study of ischemic heart disease
** P50HL-17655-04 0001 Study of ischemic heart disease - Intravenous nitroglycerin--Ventricular function and infarct size (human, dog)
** P50HL-17655-04 0004 Study of ischemic heart disease - Coronary arteriography in survivors of acute myocardial infarction (human)
P50HL-17655-04 0006 Study of ischemic heart disease - Evaluation of coronary artery bypass graft surgery (human)
** P50HL-17655-04 0010 Study of ischemic heart disease - Core facility--Cardiovascular pathology (human, animal)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-17655-04 0011 Study of ischemic heart disease - Core facilityp-Cardiovascular nuclear medicine (human, dog)
P50HL-17655-04 0014 Study of ischemic heart disease - Blood flow and gas tension in myocardial ischemia and infarction (dog, monkey)
M P50HL-17665-04 Study of ischemic heart disease
** P50HL-17665-04 0001 Study of ischemic heart disease - Reduction of acute anterior myocardial infarction--Mechanical circulatory assist
** P50HL-17665-04 0002 Study of ischemic heart disease - Reducing acute anterior myocardial infarction--Beta adrenergic blockade (human)
** P50HL-17665-04 0003 Study of ischemic heart disease - Quantitation of injury--Acute myocardial infarction complicated by shock (human)
** P50HL-17665-04 0005 Study of ischemic heart disease - Evaluation of zone of jeopardized myocardium in patients with angina pectoris
P50HL-17665-04 0008 Study of ischemic heart disease - Core laboratory--CPK isoenzyme measurement and myocardial necrosis evaluation
** P50HL-17665-04 0011 Study of ischemic heart disease - Oevelopment of new methods for the determination of infarct size (dog, human)
P50HL-17665-04 0012 Study of ischemic heart disease - Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog
P50HL-17665-04 0018 Study of ischemic heart disease - Computer correlation of data--Patients with ischemic heart disease
P50HL-17665-04 0028 Study of ischemic heart disease - Pathologic and biochemical studies of ischemic myocardium (human, dog)
** P50HL-17665-04 0032 Study of ischemic heart disease - Myocardial infarct sizing--Immunoassay for cardiac myosin light chains (dogs)
P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
P50HL-17667-04 0019 Study of ischemic heart disease - Assessment of long-term results of coronary artery bypass grafting (human)
P50HL-17667-04 0031 Study of ischemic heart disease - Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey)
P50HL-17667-04 0038 Study of ischemic heart disease - Clinical core unit
P50HL-17667-04 0040 Study of ischemic heart disease - Core biochemistry--Cardiac metabolism (human)
** P50HL-17667-04 0043 Study of ischemic heart disease - Quantitation of myocardial infarct size by serial enzyme measurements (human)
** P50HL-17667-04 0045 Study of ischemic heart disease - Pathology of myocardial ischemic necrosis (human)
M P50HL-17669-04 Ischemic heart disease center (SCOR)
** P50HL-17669-04 0001 Ischemic heart disease center (SCOR) - Radioimmunoassays for CPK isoenzyme and myoglobin (human, dog)
** P50HL-17669-04 0002 Ischemic heart disease center (SCOR) - Myocardial infarction sizing by radioimmunoassay of cardiac myosin (dogs)
** P50HL-17669-04 0009 Ischemic heart disease center (SCOR) - Infarct volume--99Tc stannous pyrophosphate myocardial scintigrams (dogs, human)
P50HL-17669-04 0013 Ischemic heart disease center (SCOR) - Exercise in patients with ischemic heart disease
** P50HL-17669-04 0022 Ischemic heart disease center (SCOR) - Pathological studies of human and experimental ischemic heart disease
** P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
M P50HL-17670-04 Study of ischemic heart disease
** P50HL-17670-04 0005 Study of ischemic heart disease - Quantitative assessment of the vectorcardiogram (human)
P50HL-17670-04 0008 Study of ischemic heart disease - Surgical treatment of cardiac rhythm disorders (human, dogs)
P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
** P50HL-17670-04 0011 Study of ischemic heart disease - Pharmacology of ischemic myocardium (dogs)
P50HL-17670-04 0012 Study of ischemic heart disease - Epidemiology of sudden death (human)
P50HL-17670-04 0014 Study of ischemic heart disease - Real time ultrasound imaging in ischemic heart disease (human, dog)
P50HL-17670-04 0015 Study of ischemic heart disease - Radionuclide studies of myocardial ischemia (human)
P50HL-17670-04 0016 Study of ischemic heart disease - Core pathology laboratory (human, dogs, monkeys)
P50HL-17670-04 0017 Study of ischemic heart disease - Core enzymology laboratory (human)
** P50HL-17670-04 0021 Study of ischemic heart disease - Enzymatic evaluation of acute myocardial infarction (dogs)
** P50HL-17670-04 0023 Study of ischemic heart disease - Energy metabolism in acute myocardial ischemic injury (dogs)
M P50HL-17682-04 Study of ischemic heart disease
P50HL-17682-04 0001 Study of ischemic heart disease - Studies in acute and chronic ischemic heart disease (human)
** P50HL-17682-04 0003 Study of ischemic heart disease - Effects of myocardial revascularization in man
** P50HL-17682-04 0007 Study of ischemic heart disease - Mechanisms of hypoxemia in myocardial infarction (human)
** P50HL-17682-04 0008 Study of ischemic heart disease - Clinical core unit
P50HL-17682-04 0009 Study of ischemic heart disease - Computer core unit
** P50HL-17682-04 0010 Study of ischemic heart disease - Core clinical enzyme laboratory (human, mice, dogs, rats)
** P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
** P50HL-17682-04 0012 Study of ischemic heart disease - Pathology core laboratory (human)
** P50HL-17682-04 0013 Study of ischemic heart disease - Chronic ischemic heart disease--Myocardial function and metabolism (dogs, swine)
** P50HL-17682-04 0015 Study of ischemic heart disease - Acute myocardial ischemia and infarction and their reversibility (dogs, baboons)
** P50HL-17682-04 0016 Study of ischemic heart disease - Endurance exercise--Prevention and rehabilitation in ischemic heart disease (pig)
P50HL-17682-04 0021 Study of ischemic heart disease - Prostaglandin biosynthesis in blood vessels from ischemic myocardium (rat, sheep)
** R01HL-17739-04 Acute myocardial infarct scintigraphy (human, dogs, rats)
R01HL-18003-05 Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)
R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
** R01HL-18190-03 Myocardial blood flow in acute myocardial infarction (human, dogs)
R01HL-18328-03 Hemoglobin function and tissue oxygenation (human, dogs)
** R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
** R01HL-18537-04 Regional blood flow after acute myocardial injury (dogs)
R01HL-18538-03 The role of electrotonus in His-Purkinje function (dog)
R01HL-18687-03 Pathophysiology of genetic hypertriglycerinemias (human)
** P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-18769-04 Studies in survivors of lethal arrhythmias (human)
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
** R01HL-18793-03 Clinical-pathologic studies of sudden cardiac death (human)
R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
R01HL-18798-04 0003 Nervous and ionic factors in sudden cardiac death - Left stellectomy in the prevention of sudden death (dogs)
R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
M R01HL-18805-04 Sudden cardiac death and the onset of myocardial infarction
R01HL-18805-04 0001 Sudden cardiac death and the onset of myocardial infarction - Predictive value of maximum exercise stress testing (human)
** R01HL-18805-04 0003 Sudden cardiac death and the onset of myocardial infarction - Prediction from clinical and laboratory assessments (human)
** R01HL-18808-04 0001 Prediction and prevention of sudden cardiac death - Prognostic significance of premature ventricular contractions (human)
P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
R01HL-18850-03 Classification code for Frank orthogonal ECG
** R01HL-18907-03 Objective evaluation early after MI and heart surgery (human)
** R01HL-19000-03 Irreversible myocardial injury (rats)
R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
** R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
** R01HL-19232-03 ECHO changes in wall motion with myocardial ischemia
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
** R01HL-19343-03 Behavioral influences on cardiac contractility (monkeys)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
** R01HL-19537-03 Detection of myocardial injury with ultrasound (dogs)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
** R01HL-20187-01 Evaluation of exercise cardiac rehabilitation program (40-55 year old men)
R01HL-20196-02 Regulation of coronary arterial smooth muscle
** R01HL-20199-02 Drug-induced alterations in infarct size in the rat
R01HL-20226-02 Cardiac bypass and coronary collateral physiology (dogs)
R01HL-20394-03 Complement activation by heart subcellular membranes (human, dog)
R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
R01HL-20597-02 Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits)
R01HL-20630-03 Oevelopment of a pulsed Doppler velocity detector (human, animals)
** R01HL-20645-01 Etiology of myocardial infaction (human)
R01HL-20872-02 Multidimensional echo imaging of the ischemic heart
** R01HL-20895-03 0005 Cineangiographic studies of cardiovascular system - Computerized axial tomography--Cardiac wall motion and infarction (dogs)
** R01HL-21088-02 Genetic patterns in deaths from MI and stroke in Utah
R23HL-21151-02 Ischemic myocardium--Oelivery of blood flow and drugs (dogs)
R01HL-21172-02 Regional oxygen consumption of heart and other organs (animals)
** R01HL-21283-02 Simulation studies of the ECG in acute ischemia (and human)
** R23HL-21292-01 Human ventricular activation--Patterns and mechanisms (human)
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
** R01HL-21418-02 Experimental myocardial infarction (rats)
** R01HL-21425-02 Servo-simulated compliance changes--A reversible MI (dogs)
** R01HL-21427-02 Behavioral changes in post infarction patients
R01HL-21533-02 Platelet inhibitor drug in coronary surgery (human)
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
M R01HL-21684-02 Radionuclide infarct sizing and therapy evaluation
** R01HL-21684-02 0001 Radionuclide infarct sizing and therapy evaluation - Evaluating preservation of ischemic myocardium by radioisotope methods (dog)
R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)
** R01HL-21684-02 0003 Radionuclide infarct sizing and therapy evaluation - Core pathology laboratory (dogs, human)
** R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
** R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
** R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
R01HL-21697-01 Myocardium infarct sizing by 82Rb emission tomography (dogs, human)
** R01HL-21719-01 Computed cardiac tomography in infarct sizing (dogs, human)
** R01HL-21735-01 Electrophysiology after healed myocardial infarction (cats)
** R01HL-21750-02 Electrocardiographic quantification of infarct size (dogs, human)
M R01HL-21751-02 Thallium and antimyosin in ischemia and infarction
** R01HL-21751-02 0001 Thallium and antimyosin in ischemia and infarction - In vitro models of ischemia and infarction (rats, mice)
** R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction
** R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies--Ischemia and infarction
** R23HL-21783-01 Ionic control of contractility in anoxic myocardium (rabbits, rats)
** R01HL-21793-02 Functional infarct size by gated radioangiography (human, dogs)
R01HL-21843-01 Ischemia, diabetes and the microcirculation (rats, cats, hamsters)
** R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
R01HL-22005-01 Intermittent retroperfusion of ischemic myocardium (dogs)
R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)
** R01HL-22098-01 Is postoperative infarction due to reperfusion injury? (human, dogs)
R01HL-22315-01 Intraoperative cardiac oxygen supply-demand (dogs, rabbits, rats)
** R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-22815-01 Regional myocardial function after revascularization (dogs)
R01HL-22821-01 A routine screening analysis for myoglobinemia
** R01HL-22982-01 Multicenter postcoronary risk stratification program (human)
R01HL-23071-01 Electrophysiology of lethal arrhythmias (dog, human)
R01HL-23078-01 Psychosocial stress and sudden coronary death (human)
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)
R01HL-23140-01 Determinants of irreversible ischemic injury in heart (dog, rat)
** R01HL-23161-01 0005 Biology of myocardial ischemia - Localization of complement in myocardial infarction (dog)
R01HL-23171-01 Coronary collateral circulation in myocardial ischemia (dog, pig, rat, human)
** R01HL-23599-01 Mechanisms of ischemic rhythm disorders (dogs)
** R01HL-23653-01 Protection of the ischemic myocardium (dogs)
** R01HL-23970-01 Mechanisms and control of sudden cardiac death (human, dog)
** R01HL-23982-01 Control of coronary flow by carbon dioxide tension (dogs)
R01HL-23983-01 Quantitative radiocardiography (human, dogs)
N01HV-42911-07 ECG center for prevention of coronary heart disease (human)
** N01HV-52901-06 Aspirin-myocardial infarction study
** N01HV-52941-04 Center for aspirin-myocardial infarction study (human)
** N01HV-62960-00 Techniques to protect ischemic myocardium and minimize infant size (human)
** N01HV-72940-02 Therapy to protect ischemic myocardium (human)
** N01HV-72948-03 Coordinating center for propranolol heart trial (human)
** N01HV-72949-03 ECG center for proprancolo heart trial
** N01HV-72950-02 Central laboratory for propranolol heart trial
** N01HV-72951-03 Clinical center for propranolol heart trial (human)
** N01HV-72952-02 Clinical center for propranolol heart trial (huamn)
** N01HV-72953-04 Clinical center for propranolol heart trial
** N01HV-72954-06 Clinical center for propranolol heart trial (human)
** N01HV-72955-02 Clinical center for propranolol heart trial (human)
** N01HV-72956-02 Clinical center for propranolol heart trial (human)
** N01HV-72957-02 Clinical center for propranolol heart trial (human)
** N01HV-72958-02 Clinical center for propranolol heart trail (human)
** N01HV-72959-04 Clinical center for propranolol heart trial (human)
** N01HV-72960-02 Clinical center propranolol heart trial (human)
** N01HV-72961-03 Clinical center for propranolol heart trial
** N01HV-72963-02 Clinical center for propranolol heart trial (human)
** N01HV-72964-02 Clinical center for propranolol heart trial (human)
** N01HV-72965-02 Clinical center for propranolol heart trial
** N01HV-72966-03 Clinical center for propranolol heart trial
** N01HV-72967-02 Clinical center for propranolol heart trial (human)
** N01HV-72968-03 Clinical center for propranolol heart trial
** N01HV-72969-02 Clinical center for propranolol heart trial (human)
** N01HV-72970-04 Clinical center for propranolol heart trial (human)
** N01HV-82900-03 Clinical center for propranolol heart trial (human)
** N01HV-82901-02 Clinical center for propranolol heart trial (human)
** N01HV-82902-02 Clinical center for propranolol heart trial
** N01HV-82903-02 Clinical center for propranolol heart trial (human)
** N01HV-82904-02 Clinical center for propranolol heart trial (human)
** N01HV-82905-02 Clinical center for propranolol trial (human)
** N01HV-82906-02 Clinical center for propranolol heart trial (human)
** N01HV-82907-02 Clinical center for propranolol heart trial (human)
** N01HV-82908-02 Clinical center for propranolol heart trial (human)
** N01HV-82909-02 Clinical center for propranolol heart trial (human)
** N01HV-82910-00 Clinical center for propranolol heart trial (human)

HEART DISORDERS, CORONARY, MYOCARDIAL ISCHEMIA AND HYPOXIA

SEE ALSO HEART DISORDERS, CORONARY, ANGINA PECTORIS

P01HL-04664-18 0011 Cardiovascular and lung dynamics Detection of abnormal segments of the human ventricle by measure of asynergy
P01HL-04664-18 0013 Cardiovascular and lung dynamics - Ventricular function in coronary disease using NIG and ventriculograms (human)
P01HL-04664-18 0014 Cardiovascular and lung dynamics - Clinical application of computer analysis of ventricular wall motion
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
** P01HL-06285-18 0143 Cardiovascular-respiratory physiology and biochemistry - Myocardial ischemia (human, dogs, lambs)
** P01HL-06285-18 0154 Cardiovascular-respiratory physiology and biochemistry - Function and viability of critically ischemic myocardium (dogs)
** P01HL-06285-18 0156 Cardiovascular-respiratory physiology and biochemistry - Myocardial performance following revascularization (human)
P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
** P01HL-06308-18 0010 Mechanisms and therapy of circulatory disease - Ventricular arrhythmias during exercise to CHD and myocardial ischemia (human)
** P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
P01HL-06308-18 0029 Mechanisms and therapy of circulatory disease - Characterization of the patient with recurrent ventricular arrhythmias
P01HL-06308-18 0037 Mechanisms and therapy of circulatory disease - Electrophysiology, blood flow, and ANS in ventricular fibrillation (dogs)
** P01HL-06308-18 0038 Mechanisms and therapy of circulatory disease - Electrophysiology of ventricualr arrhythmias associated with ischemia (dogs)
** P01HL-06308-18 0040 Mechanisms and therapy of circulatory disease - Metabolism and fatty acid utilization--Heart electrical stability (rats, dogs)
** P01HL-06308-18 0042 Mechanisms and therapy of circulatory disease - Echocardiographic assessment of arrhythmias--Myocardial tissue type (human, dogs)
** P01HL-06308-18 0044 Mechanisms and therapy of circulatory disease - Echocardiography to determine site of ectopic impulse formation (human, dogs)
** P01HL-06312-17 0013 Surgical cardiology - Aortocoronary vein bypass grafting (human)
P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
M P01HL-06370-17 Cardiopulmonary and renal pathology research center
** P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
M P01HL-06664-17 Cardiopulmonary function in remediable vascular disease
** P01HL-06664-17 0034 Cardiopulmonary function in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
** P01HL-06664-17 0036 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
** R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
** R01HL-08311-14 Effects of drugs upon myocardial hypoxia (dogs, turtles)
P01HL-08682-15 0018 Regulation of the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)
** R01HL-09315-15 Coronary insufficiency and myocardial revascularization (human, dogs)
R01HL-09364-14 Ion transport by heart mitochondria (cattle, rat, rabbit)
** R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
** R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
P01HL-10539-12 0023 Pathophysiology of circulation - The relaxation response and therapy of disease states (human)
** P01HL-10539-12 0067 Pathophysiology of circulation - Mechanical, electrophysiological studies--Isolated heart muscle (dog, rat)
P01HL-10539-12 0068 Pathophysiology of circulation - Acute and chronic cardiomyopathies (mice, dogs, hamsters, human)
** P01HL-11307-12 0002 Biophysical studies in pediatric cardiology - Cardiac extracellular electrophysiology (human, dog, chimpanzee)

P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
P01HL-11310-12 0091 Mechanisms of cardiovascular disease - Noninvasive techniques in cardiovascular diagnosis (human)
P01HL-11310-12 0092 Mechanisms of cardiovascular disease - Exercise electrophysiology (human)
P01HL-11310-12 0093 Mechanisms of cardiovascular disease - Multiple dipole electrocardiogram project (human, dogs)
** P01HL-11310-12 9001 Mechanisms of cardiovascular disease - Core support-hospital beds
** P01HL-11351-12 0002 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ionic exchange (rats, rabbits)
** P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
R01HL-11876-11 Regional myocardial blood flow and metabolism (dogs, swine)
R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
** R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
** R01HL-12611-10 Basic and clinical studies of the ST-T deflection (human, dogs)
P01HL-12738-10 0044 Physiologic pharmacology and its clinical applications - Cardioactive drugs and electrophysiological properties of cardiac cells (sheep)
** P01HL-12738-10 0092 Physiologic pharmacology and its clinical applications - Subendocardial ischemia following open heart surgery (human)
P01HL-12738-10 0107 Physiologic pharmacology and its clinical applications - Blood superfused cardiac fibers (dogs)
** P01HL-12738-10 0117 Physiologic pharmacology and its clinical applications - Ventricular arrhythmias in ischemic heart disease (human)
** P01HL-12738-10 0122 Physiologic pharmacology and its clinical applications - Coronary perfusion of beating and fibrillating hearts (dogs)
** P01HL-12738-10 0124 Physiologic pharmacology and its clinical applications - Counterpulsation on myocardial ischemia measured by carbon dioxide tension (dogs)
** R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
P01HL-13737-07 0007 Assisted circulation - Determination of cardiac status by use of balloon pump (dogs)
P01HL-13737-07 0008 Assisted circulation - Phase-shift balloon pumping alternate designs
P01HL-13737-07 0027 Assisted circulation - Optimization of cardiac assistance (dogs)
** P01HL-13737-07 0030 Assisted circulation - Myocardial ischemia--Effects of phase-shift balloon pumping (dogs)
** P01HL-13737-07 0031 Assisted circulation - Myocardial ischemia--Biochemical changes (dogs)
** P01HL-13737-07 0038 Assisted circulation - Distinguishing the ischemic ventricle from scarred ventricle by balloon pumping
R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0215 Regulation of the circulation in pathological states - Left ventricle model in pathophysiologic states
P01HL-14388-07 0221 Regulation of the circulation in pathological states - Experimental myocardial infarction (dogs)
** R01HL-14571-05 Myocardial preservation and coronary reperfusion (baboons, dogs)
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
** R01HL-14646-05 Pathophysiology of myocardial ischemia (dogs, rats)
** R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)
** P01HL-15194-07 0025 Pathophysiology of cardiopulmonary dysfunction - Myoglobinemia as an index of myocardial ischemia and infarction
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
R01HL-15498-06 Effects of physical training on heart (rats)
** R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-15622-05 Computer simulation in cardiology (rats, dogs)
** R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
** R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
R01HL-15758-06 Catecholamine release in the heart (dogs)
** R01HL-15813-05 Cardiac anoxia--Protective effect of carbohydrate (dogs)
** R01HL-15983-04 Regional myocardial blood flow (dogs)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

M R01HL-16292-05 Surgery and non-obstructive coronary insufficiency
R01HL-16292-05 0002 Surgery and non-obstructive coronary insufficiency - Effects of hypothermia during cardiopulmonary bypass (dogs)
R01HL-16292-05 0009 Surgery and non-obstructive coronary insufficiency - Exercise and supply-demand balance (human)
R01HL-16292-05 0010 Surgery and non-obstructive coronary insufficiency - Effects of exercise on flow distribution (dogs)
R01HL-16292-05 0017 Surgery and non-obstructive coronary insufficiency - Cardiopulmonary resuscitation (human)
** R01HL-16292-05 0018 Surgery and non-obstructive coronary insufficiency - Unavoidable subendocardial perfusion caused by venting and hypothermia (dogs)
** R01HL-16292-05 0019 Surgery and non-obstructive coronary insufficiency - Oistortion of subendocardial vessels in infant hearts (dogs)
** R01HL-16292-05 0020 Surgery and non-obstructive coronary insufficiency - Limitation of transthoracic ECG in detecting subendocardial ischemia (dogs)
** R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-16657-06 Innervation of coronary arteries and heart (rats)
R01HL-16760-05 Oynamic control of coronary blood flow (dogs)
** P60HL-17269-04 0007 National heart and blood vessel research and demonstration center - Correlative studies of experimental myocardial ischemia (dog)
** P60HL-17269-04 0018 National heart and blood vessel research and demonstration center - Mitochondria and energetics (rabbits, dogs)
P60HL-17269-04 0019 National heart and blood vessel research and demonstration center - Sarcoplasmic reticulum (dog, rabbit, hamster, cat)
** P60HL-17269-04 0021 National heart and blood vessel research and demonstration center - Growth and development of heart--Ultrastructure (dog, guinea pig, rat, cat)
P60HL-17269-04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat)
P60HL-17269-04 0024 National heart and blood vessel research and demonstration center - Section of experimental cardiovascular surgery--Core facility
** P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Oynamics of ischemic heart disease (human, dog)
** P60HL-17269-04 0027 National heart and blood vessel research and demonstration center - Non-invasive evaluation of cardiac function--Ischemic heart disease (human, dog)
** R01HL-17372-03 Adenine nucleotide maintenance in the ischemic heart (rats)
R01HL-17376-04 Analysis of Z bands in heart by optical diffraction (mammals)
** R01HL-17459-03 Myocardial ischemia (dogs)
M P50HL-17646-04 Study of ischemic heart disease
P50HL-17646-04 0002 Study of ischemic heart disease - Core data management
** P50HL-17646-04 0003 Study of ischemic heart disease - Core pathology facility (human, dogs)
P50HL-17646-04 0004 Study of ischemic heart disease - Core experimental animal laboratories
** P50HL-17646-04 0005 Study of ischemic heart disease - Biochemical markers and mediators of myocardial ischemic injury
** P50HL-17646-04 0007 Study of ischemic heart disease - Prediction of myocardial ischemic injury by analysis of plasma CPK isoenzymes
** P50HL-17646-04 0009 Study of ischemic heart disease - Regional metabolic derangements indicating ischemia (rabbit, dog, human)
** P50HL-17646-04 0012 Study of ischemic heart disease - Role of microcirculation in progression of myocardial ischemic injury (rat)
** P50HL-17646-04 0013 Study of ischemic heart disease - Maintenance of myocardial vascular integrity after revascularization (dogs)
** P50HL-17646-04 0014 Study of ischemic heart disease - Progression of ischemic injury in conscious dogs (also rabbits)
** P50HL-17646-04 0016 Study of ischemic heart disease - Humoral factors in ischemic heart rhythm, mechanical performance (dog, rabbit)
P50HL-17646-04 0017 Study of ischemic heart disease - Oysrhythmia associated with acute myocardial infarction (human, cat)
M P50HL-17648-04 Study of ischemic heart disease
P50HL-17648-04 0004 Study of ischemic heart disease - Radionuclide imaging studies (human, pig)
** P50HL-17648-04 0011 Study of ischemic heart disease - Surgical treatment for acute myocardial ischemia (human, dogs)
** P50HL-17648-04 0012 Study of ischemic heart disease - Retrograde coronary venous perfusion--Acute myocardial ischemia
P50HL-17648-04 0020 Study of ischemic heart disease - Core pathology laboratory--Ischemic heart disease (human, animal)
P50HL-17648-04 0021 Study of ischemic heart disease - Biventricular contractile responses to acute myocardial infarction (mammals)
P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
** P50HL-17648-04 0025 Study of ischemic heart disease - Oestruction and repair of cardiac muscle cell constituents (rat)
P50HL-17648-04 0027 Study of ischemic heart disease - Phospholipid metabolism following cardiac injury and repair (rat)
** P50HL-17648-04 0031 Study of ischemic heart disease - Ultrastructural consequences of myocardial ischemia (rat)
M P50HL-17651-04 Ischemic heart disease specialized center of research
** P50HL-17651-04 0002 Ischemic heart disease specialized center of research - Reduction of myocardial ishemic injury by pharmacologic agents (human, dog)
** P50HL-17651-04 0015 Ischemic heart disease specialized center of research - Peripheral circulation in acute myocardial ischemia and infarction (human)
** P50HL-17651-04 0016 Ischemic heart disease specialized center of research - Retroperfusion of coronary venus circulation with therapeutic agents (dogs)
** P50HL-17651-04 0022 Ischemic heart disease specialized center of research - Electrophysiology--Mechanism and pharmacology of arrhythmias (human, dog)
** P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
P50HL-17651-04 0034 Ischemic heart disease specialized center of research - Core facilities--Oata management
P50HL-17651-04 0035 Ischemic heart disease specialized center of research - Core facilities--Biomedical engineering, biophysics
** P50HL-17651-04 0036 Ischemic heart disease specialized center of research - Core facilities--Cardiovascular pathology (human, dog)
P50HL-17651-04 0037 Ischemic heart disease specialized center of research - Measurement of coronary venous outflow by thermodilution (human)
** P50HL-17651-04 0038 Ischemic heart disease specialized center of research - Cardiothermography (human, dog)
** P50HL-17651-04 0041 Ischemic heart disease specialized center of research - Biochemical indices of ischemic injury (guinea pig)
** P50HL-17651-04 0043 Ischemic heart disease specialized center of research - Gradual reperfusion following acute coronary occlusion (dog)
** P50HL-17651-04 0046 Ischemic heart disease specialized center of research - Clinical core--Physiological changes/biochemical effects of myocardial ischemia
** P50HL-17651-04 0048 Ischemic heart disease specialized center of research - Non-invasive detection of ischemic heart disease
P50HL-17655-04 0001 Study of ischemic heart disease - Intravenous nitroglycerin--Ventricular function and infarct size (human, dog)
P50HL-17655-04 0003 Study of ischemic heart disease - Cardiopulmonary resuscitation (human, dog)
P50HL-17655-04 0006 Study of ischemic heart disease - Evaluation of coronary artery bypass graft surgery (human)
P50HL-17655-04 0011 Study of ischemic heart disease - Core facility--Cardiovascular nuclear medicine (human, dog)
P50HL-17655-04 0012 Study of ischemic heart disease - DATA management
** P50HL-17655-04 0014 Study of ischemic heart disease - Blood flow and gas tension in myocardial ischemia and infarction (dog, monkey)
M P50HL-17665-04 Study of ischemic heart disease
P50HL-17665-04 0001 Study of ischemic heart disease - Reduction of acute anterior myocardial infarction--Mechanical circulatory assist
P50HL-17665-04 0002 Study of ischemic heart disease - Reducing acute anterior myocardial infarction--Beta adrenergic blockade (human)
P50HL-17665-04 0003 Study of ischemic heart disease - Quantitation of injury--Acute myocardial infarction complicated by shock (human)
** P50HL-17665-04 0005 Study of ischemic heart disease - Evaluation of zone of jeopardized myocardium in patients with angina pectoris
P50HL-17665-04 0008 Study of ischemic heart disease - Core laboratory--CPK isoenzyme measurement and myocardial necrosis evaluation
** P50HL-17665-04 0012 Study of ischemic heart disease - Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog
** P50HL-17665-04 0020 Study of ischemic heart disease - Ischemic injury to myocardium during measured states of ischemia (human)
** P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)
P50HL-17665-04 0022 Study of ischemic heart disease - Effect of coronary revascularization on left ventricular function (human)
** P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human)
** P50HL-17665-04 0027 Study of ischemic heart disease - Positron imaging of regional myocardial perfusion (human, dog)
** P50HL-17665-04 0028 Study of ischemic heart disease - Pathologic and biochemical studies of ischemic myocardium (human, dog)
** P50HL-17665-04 0029 Study of ischemic heart disease - Myocardial protein synthesis and degradation in low oxygen states (rabbit, dog)
P50HL-17665-04 0030 Study of ischemic heart disease - Oata management
** P50HL-17667-04 0012 Study of ischemic heart disease - Biochemistry of normal and ischemic heart--Glycolysis (rats)
** P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
P50HL-17667-04 0019 Study of ischemic heart disease - Assessment of long-term results of coronary artery bypass grafting (human)
** P50HL-17667-04 0022 Study of ischemic heart disease - Preventing myocardial injury in surgery using cardiopulmonary bypass (human, rat)
P50HL-17667-04 0031 Study of ischemic heart disease - Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey)
** P50HL-17667-04 0045 Study of ischemic heart disease - Pathology of myocardial ischemic necrosis (human)
M P50HL-17669-04 Ischemic heart disease center (SCOR)
** P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
** P50HL-17669-04 0007 Ischemic heart disease center (SCOR) - Relationship between myocardial depression and compliance (dogs, cats)
** P50HL-17669-04 0008 Ischemic heart disease center (SCOR) - Segmental ventricular dysfunction during stress-induced ischemia (dog, human)
P50HL-17669-04 0009 Ischemic heart disease center (SCOR) - Infarct volume--99Tc stannous pyrophosphate myocardial scintigrams (dogs, human)
** P50HL-17669-04 0011 Ischemic heart disease center (SCOR) - Lysosomal function and lysosomal enzymes in normal and ischemic heart (rabbit)
** P50HL-17669-04 0012 Ischemic heart disease center (SCOR) - Circulatory assistance (human, dog)
** P50HL-17669-04 0013 Ischemic heart disease center (SCOR) - Exercise in patients with ischemic heart disease
** P50HL-17669-04 0022 Ischemic heart disease center (SCOR) - Pathological studies of human and experimental ischemic heart disease
P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
M P50HL-17670-04 Study of ischemic heart disease
** P50HL-17670-04 0006 Study of ischemic heart disease - Assessment of coronary artery hemodynamics and myocardial blood flow (human)
P50HL-17670-04 0008 Study of ischemic heart disease - Surgical treatment of cardiac rhythm disorders (human, dogs)
** P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
** P50HL-17670-04 0011 Study of ischemic heart disease - Pharmacology of ischemic myocardium (dogs)
** P50HL-17670-04 0014 Study of ischemic heart disease - Real time ultrasound imaging in ischemic heart disease (human, dog)
** P50HL-17670-04 0020 Study of ischemic heart disease - Radionuclide evaluation of coronary artery disease (human, dog)
P50HL-17670-04 0021 Study of ischemic heart disease - Enzymatic evaluation of acute myocardial infarction (dogs)
** P50HL-17670-04 0022 Study of ischemic heart disease - Myocardial metabolism in hypoxia and recover (rabbit, toad, dog)
** P50HL-17670-04 0023 Study of ischemic heart disease - Energy metabolism in acute myocardial ischemic injury (dogs)
M P50HL-17682-04 Study of ischemic heart disease
** P50HL-17682-04 0001 Study of ischemic heart disease - Studies in acute and chronic ischemic heart disease (human)
** P50HL-17682-04 0005 Study of ischemic heart disease - Regional myocardial perfusion deficits and segmental contraction disorders in man
P50HL-17682-04 0007 Study of ischemic heart disease - Mechanisms of hypoxemia in myocardial infarction (human)
** P50HL-17682-04 0008 Study of ischemic heart disease - Clinical core unit
P50HL-17682-04 0010 Study of ischemic heart disease - Core clinical enzyme laboratory (human, mice, dogs, rats)
P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
P50HL-17682-04 0012 Study of ischemic heart disease - Pathology core laboratory (human)

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P50HL-17682-04 0013 Study of ischemic heart disease Chronic ischemic heart disease--Myocardial function and metabolism (dogs, swine)
** P50HL-17682-04 0014 Study of ischemic heart disease Myocardial ischemia--Instrumentation and technique (dogs, baboons)
** P50HL-17682-04 0015 Study of ischemic heart disease - Acute myocardial ischemia and infarction and their reversibility (dogs, baboons)
P50HL-17682-04 0016 Study of ischemic heart disease - Endurance exercise--Prevention and rehabilitation in ischemic heart disease (pig)
** P50HL-17682-04 0018 Study of ischemic heart disease - Biochemistry of ischemia--Heart cell and organ culture (mice, rats, cattle)
** P50HL-17682-04 0020 Study of ischemic heart disease - Nucleotide and nucleoside metabolism in ischemic myocardium
** P50HL-17682-04 0021 Study of ischemic heart disease - Prostaglandin biosynthesis in blood vessels from ischemic myocardium (rat, sheep)
** P50HL-17682-04 0023 Study of ischemic heart disease - Core cell and organ culture laboratory (mice)
** P50HL-17682-04 0024 Study of ischemic heart disease - Phosphorylation of cardiac contractile proteins during ischemia (rat, guinea pig)
** R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
** R01HL-17809-04 Effects of exercise on the coronary vasculature (rat, dog)
** R01HL-17895-04 Myocardial function and metabolism following ischemia (rats)
R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
** R01HL-18206-04 Regulation of metabolism in oxygen deficient hearts (rats)
** R01HL-18258-04 Regulation of protein degradation in heart (rats)
** R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
R01HL-18454-03 Maximal exercise testing in hyperlipidemic children
** R01HL-18460-01 Effects of prolonged hypoperfusion on the myocardium (rabbits)
** R01HL-18631-03 Ultrastructural correlates of myocardial ischemia (rats, swine)
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
** R01HL-18647-03 Ischemic myocardial injury in cultured heart cells (rats)
R01HL-18705-03 Regulation of plasma triglyceride metabolism (rats)
** P01HL-18708-03 0009 Oxygen, energy and contractility in cardiac tissue - Regulation of oxygen utilization of cardiac tissue (rats, rabbits)
R01HL-18793-03 Clinical-pathologic studies of sudden cardiac death (human)
** R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
** R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
M R01HL-18798-04 Nervous and ionic factors in sudden cardiac death
** R01HL-18798-04 0001 Nervous and ionic factors in sudden cardiac death - Potassium loss during myocardial ischemia (rabbits)
** R01HL-18798-04 0002 Nervous and ionic factors in sudden cardiac death - Electron microprobe, ultrastructure analysis of ischemic myocardium (dog, rabbit)
R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
** R01HL-18805-04 0003 Sudden cardiac death and the onset of myocardial infarction - Prediction from clinical and laboratory assessments (human)
** R01HL-19000-03 Irreversible myocardial injury (rats)
R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
** R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
** R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
** R01HL-19135-04 Heterogeneity of regional myocardial blood flow (dogs)
** R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R01HL-19181-02 Regulation of heart cAMP-dependent protein kinase (rodents)
** R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
** R01HL-19232-03 ECHO changes in wall motion with myocardial ischemia
** R01HL-19289-03 Assessment of infusion methods for myocardial mapping (dogs)
** R01HL-19370-03 Coronary capillary exchange--The effects of ischemia (dogs, sheep)
R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
** R01HL-19398-03 Regional conduction abnormalities and arrhythmias (dogs)
** R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
** R01HL-19537-03 Detection of myocardial injury with ultrasound (dogs)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-19675-02 Coronary pharmacoangiography
** R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-19937-02 Vasodilators in experimental myocardial infarction (dogs)
R01HL-20080-02 Surgically induced myocardial edema (dogs)
R01HL-20163-02 Competitive coronary flow in native and graft vessels (dog)
R01HL-20226-02 Cardiac bypass and coronary collateral physiology (dogs)
R01HL-20253-02 Effects of exercise on the heart and its blood supply (dogs)
** R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
** R01HL-20286-02 Interventions to improve cardiac function in ischemia (dogs)
R01HL-20308-02 Regulation of myocardial acylcarnitine transport (rats)
R01HL-20476-03 Effects of diabetes on cardiac performance (rat)
R01HL-20484-03 Effects of diabetes on cardiac function and metabolism (rats)
** R01HL-20597-02 Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits)
** R01HL-20598-03 The coronary vascular response to ischemia (dogs, pigs)
** R01HL-20648-01 Physical factors and coronary flow (dogs)
R01HL-20658-01 Myocardial energy transport--Creative kinase (human, cattle, dog)
** R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
** R01HL-20827-02 Effects of hypertrophy on the coronary circulation (dogs)
R01HL-20872-02 Multidimensional echo imaging of the ischemic heart
R01HL-20895-03 0005 Cineangiographic studies of cardiovascular system - Computerized axial tomography--Cardiac wall motion and infarction (dogs)
** R01HL-20895-03 0006 Cineangiographic studies of cardiovascular system - Cardiomyopathy--Hemodynamic, radiologic, morphologic abnormalities (dog, rabbit)
P50HL-21006-02 0005 Specialized center of research in arteriosclerosis - Regional myocardial perfusion in patient with coronary artery disease (also dogs)
R01HL-21187-01 Potassium, norepinephrine, and coronary arterial tone (dogs)
** R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)
** R23HL-21262-02 Sodium-calcium interactions in mammalian myocardium (rabbits, cats)
** R01HL-21283-02 Simulation studies of the ECG in acute ischemia (and human)
** R01HL-21381-02 Amino acid metabolism in normal and hypoxic myocardium (rabbits)
R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
** R01HL-21418-02 Experimental myocardial infarction (rats)
R23HL-21434-02 Intrinsic control of coronary blood flow by chemicals (guinea pigs)
** R01HL-21452-02 Pulmonary capillary filtration in myocardial ishemia (dogs)
** R01HL-21482-01 Cardiac function and metabolism in diabetes (rats)
** R01HL-21570-01 The mechanical basis of myocardial energetics (cats)
** R01HL-21589-01 Radiographic contrast toxicity in ischemic heart
** R01HL-21654-01 Autonomic determinants of arrhythmia due to ischemia (cats)
** R01HL-21657-01 Regional non-ischemic myocardial hypoxia (dogs)
R01HL-21684-02 0001 Radionuclide infarct sizing and therapy evaluation - Evaluating preservation of ischemic myocardium by radioisotope methods (dog)
** R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)
R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
R01HL-21697-01 Myocardium infarct sizing by 82Rb emission tomography (dogs, human)
** R01HL-21706-02 Nuclear magnetic resonance and myocardial ischemia (rats)
R01HL-21707-01 Quantification of infarct size by emission tomography (human, dogs)
R01HL-21710-01 Electrocardiographic methods of quantifying infarct size (human, dogs)
R01HL-21719-01 Computed cardiac tomography in infarct sizing (dogs, human)
R01HL-21750-02 Electrocardiographic quantification of infarct size (dogs, human)
M R01HL-21751-02 Thallium and antimyosin in ischemia and infarction
** R01HL-21751-02 0001 Thallium and antimyosin in ischemia and infarction - In vitro models of ischemia and infarction (rats, mice)
** R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction
** R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies--Ischemia and infarction
** R01HL-21786-01 Long-term effects of myocardial protection (dogs, rats)
R01HL-21793-02 Functional infarct size by gated radioangiography (human, dogs)
** R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
** R01HL-21969-01 Prevention of myocardial hypoxia during by-pass (rats, mice, squirrels)
** R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)
** R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
** R01HL-22005-01 Intermittent retroperfusion of ischemic myocardium (dogs)
** R01HL-22064-02 Glycogen metabolism in anoxic diabetic myocardium (rats)
** R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)
R01HL-22098-01 Is postoperative infarction due to reperfusion injury? (human, dogs)
** R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)
R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
** R01HL-22215-01 Effects of exercise-training in ischemic heart disease (human)
** R01HL-22281-01 Microprobe analysis and metabolite levels of ischemic mycardium (dogs)
R01HL-22290-01 Cardiac energy metabolism and protein synthesis (mice)
R01HL-22315-01 Intraoperative cardiac oxygen supply-demand (dogs, rabbits, rats)
** R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)
R01HL-22538-01 Myosin as a multi-enzyme complex (dogs, rabbits)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
M P01HL-22619-01 Cellular mechanisms of heart failure
** P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
** P01HL-22619-01 0004 Cellular mechanisms of heart failure - Mechanism of action of Na, K-ATPase (sheep, cattle)
** P01HL-22619-01 0006 Cellular mechanisms of heart failure - Phosphorylation of contractile proteins in cardiac muscle contraction (dogs, rabb
** P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
** P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
** P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
** P01HL-22619-01 0011 Cellular mechanisms of heart failure - Reaction of lipoproteins and apolipoproteins with lipoprotein lipase (cattle)
** P01HL-22619-01 9001 Cellular mechanisms of heart failure - Experimental pathological models core
** R01HL-22732-01 Central organization of cardiac afferent nerves (cats, monkeys)
R01HL-22759-01 Regional myocardial blood flow during hypothermia (dogs)
** R01HL-22813-01 Palmitylcarnitine inhibition of ion pumps in ischemia (dogs)
R01HL-22815-01 Regional myocardial function after revascularization (dogs)
** R01HL-22828-01 Adenosine and catecholamine interaction in the heart (rats)
** R01HL-22917-01 Microvascular pressures in the intact beating heart (rabbits)
** R01HL-22982-01 Multicenter postcoronary risk stratification program (human)
** R01HL-23071-01 Electrophysiology of lethal arrhythmias (dog, human)
** R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)
** R01HL-23140-01 Determinants of irreversible ischemic injury in heart (dog, rat)

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** R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)
** R01HL-23153-01 Mechanisms of altered CA20 transport in ischemic heart (dog, rabbit)
M R01HL-23161-01 Biology of myocardial ischemia
** R01HL-23161-01 0001 Biology of myocardial ischemia - Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)
** R01HL-23161-01 0002 Biology of myocardial ischemia - Palmitylcarnitine inhibition of ion pumps in myocardial ischemia (dog, sheep)
** R01HL-23161-01 0003 Biology of myocardial ischemia - Phosphorylase coupling to myocardial sarcoplasmic reticulum (dog)
** R01HL-23161-01 0004 Biology of myocardial ischemia - Structure of myofibrils and membranes in early ischemia (dogs, rabbit, rodents)
R01HL-23161-01 0005 Biology of myocardial ischemia - Localization of complement in myocardial infarction (dog)
** R01HL-23166-01 Pathology of mitochondria in ischemic myocardium (rats, cattle)
** R01HL-23171-01 Coronary collateral circulation in myocardial ischemia (dog, pig, rat, human)
R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
** R01HL-23599-01 Mechanisms of ischemic rhythm disorders (dogs)
** R01HL-23624-01 Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs)
** R01HL-23653-01 Protection of the ischemic myocardium (dogs)
R01HL-23970-01 Mechanisms and control of sudden cardiac death (human, dog)
** R01HL-23982-01 Control of coronary flow by carbon dioxide tension (dogs)
N01HV-42911-07 ECG center for prevention of coronary heart disease (human)
** N01HV-62960-00 Techniques to protect ischemic myocardium and minimize infant size (human)
** N01HV-72941-02 Therapy to protect ischemic myocardium--Clinical tests
** N01HV-72942-02 Therapy to protect ischemic myocardium--Clinical tests
** N01HV-72979-01 Therapy to protect ischemic myocardium--Data Center

HEART DISORDERS, CORONARY FIBROSIS

P01HL-04664-18 0011 Cardiovascular and lung dynamics - Detection of abnormal segments of the human ventricle by measure of asynergy
P01HL-04664-18 0012 Cardiovascular and lung dynamics - Quantitative single plane left ventricular angiography (human)
** P01HL-14388-07 0218 Regulation of the circulation in pathological states - Regional myocardial dyskinesis--Cause assessment and reduction (dogs)
** P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
P50HL-17651-04 0038 Ischemic heart disease specialized center of research - Cardiothermography (human, dog)
R01HL-18805-04 0007 Sudden cardiac death and the onset of myocardial infarction - Analysis of pathologic factors involved in sudden death (human)

HEART DISORDERS, CORONARY OCCLUSIONS AND THROMBOSIS

** P01HL-06285-18 0154 Cardiovascular-respiratory physiology and biochemistry - Function and viability of critically ischemic myocardium (dogs)
P01HL-06308-18 0029 Mechanisms and therapy of circulatory disease - Characterization of the patient with recurrent ventricular arrhythmias
P01HL-06308-18 0038 Mechanisms and therapy of circulatory disease - Electrophysiology of ventricualr arrhythmias associated with ischemia (dogs)
** P01HL-06312-17 0016 Surgical cardiology - Effect of hydralazine on infarct size following coronary occlusion (human)
** P01HL-06312-17 0025 Surgical cardiology - Effect of denervation on arrhythmias and function with coronary occlusion (dogs)
P01HL-06312-17 0043 Surgical cardiology - The cylindrical ventricular assist device (dogs)
P01HL-08682-15 0018 Regulation of the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)
R01HL-09315-15 Coronary insufficiency and myocardial revascularization (human, dogs)
** P01HL-10539-12 0070 Pathophysiology of circulation - Effects of hypertension on myocardial blood flow after coronary occlusion (dogs)
R01HL-11876-11 Regional myocardial blood flow and metabolism (dogs, swine)
** R01HL-12611-10 Basic and clinical studies of the ST-T deflection (human, dogs)
** P01HL-12738-10 0069 Physiologic pharmacology and its clinical applications - Blood rheology in coronary heart disease (dogs)
P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
P01HL-12738-10 0123 Physiologic pharmacology and its clinical applications - Ventricular assistance and preservation (human, dogs)
P01HL-12738-10 0124 Physiologic pharmacology and its clinical applications - Counterpulsation on myocardial ischemia measured by carbon dioxide tension (dogs)
** P01HL-12738-10 0132 Physiologic pharmacology and its clinical applications - Coronary occlusions and arrhythmias (dogs)
** R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
P01HL-13480-09 0032 Cardiac electrophysiology - Cardiac activation sequence (dogs)
P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
P01HL-14388-07 0221 Regulation of the circulation in pathological states - Experimental myocardial infarction (dogs)
** P01HL-15194-07 0017 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation and effects of arteriographic lesions on flow (human)
P01HL-15194-07 0018 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, metabolic demand and vasodilatory reserve (human, dogs)
** R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)
R01HL-15562-05 Regulation of skeletal muscle blood flow (dogs)
** R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
R01HL-16657-06 Innervation of coronary arteries and heart (rats)
** P01HL-16910-05 0002 Regulation of the peripheral circulation - Coronary circulation (dogs)
P60HL-17269-04 0007 National heart and blood vessel research and demonstration center - Correlative studies of experimental myocardial ischemia (dog)
P60HL-17269-04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat)
P50HL-17646-04 0013 Study of ischemic heart disease - Maintenance of myocardial vascular integrity after revascularization (dogs)
P50HL-17646-04 0014 Study of ischemic heart disease - Progression of ischemic injury in conscious dogs (also rabbits)
P50HL-17648-04 0013 Study of ischemic heart disease - Fate of bypassed and bypassing vessels (dogs)
P50HL-17648-04 0020 Study of ischemic heart disease - Core pathology laboratory--Ischemic heart disease (human, animal)
P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
P50HL-17651-04 0002 Ischemic heart disease specialized center of research - Reduction of myocardial ishemic injury by pharmacologic agents (human, dog)
P50HL-17651-04 0022 Ischemic heart disease specialized center of research - Electrophysiology--Mechanism and pharmacology of arrhythmias (human, dog)
** P50HL-17651-04 0043 Ischemic heart disease specialized center of research - Gradual reperfusion following acute coronary occlusion (dog)
P50HL-17651-04 0045 Ischemic heart disease specialized center of research - Peripheral vascular studies--Pharmacology (dogs, human)
** P50HL-17665-04 0012 Study of ischemic heart disease - Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog
P50HL-17665-04 0032 Study of ischemic heart disease - Myocardial infarct sizing--Immunoassay for cardiac myosin light chains (dogs)
P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
** P50HL-17670-04 0020 Study of ischemic heart disease - Radionuclide evaluation of coronary artery disease (human, dog)
P50HL-17670-04 0021 Study of ischemic heart disease - Enzymatic evaluation of acute myocardial infarction (dogs)
P50HL-17682-04 0013 Study of ischemic heart disease - Chronic ischemic heart disease--Myocardial function and metabolism (dogs, swine)
P50HL-17682-04 0015 Study of ischemic heart disease - Acute myocardial ischemia and infarction and their reversibility (dogs, baboons)
P50HL-17682-04 0021 Study of ischemic heart disease - Prostaglandin biosynthesis in blood vessels from ischemic myocardium (rat, sheep)
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
R01HL-18468-03 The distribution of flow in the myocardium (dog, pig)
** R01HL-18492-03 Measurement of regional coronary flow reserve (human, dogs)
R01HL-18793-03 Clinical-pathologic studies of sudden cardiac death (human)
R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
R01HL-18798-04 0003 Nervous and ionic factors in sudden cardiac death - Left stellectomy in the prevention of sudden death (dogs)
R01HL-18805-04 0007 Sudden cardiac death and the onset of myocardial infarction - Analysis of pathologic factors involved in sudden death (human)
R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
** R01HL-19343-03 Behavioral influences on cardiac contractility (monkeys)
R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL-19537-03 Detection of myocardial injury with ultrasound (dogs)
R01HL-19680-01 Cardiac correlates of behavioral stress in animals (dog)
** R01HL-20163-02 Competitive coronary flow in native and graft vessels (dog)
** R01HL-20179-02 Epidemiology of sudden cardiac death among women
** R01HL-20199-02 Drug-induced alterations in infarct size in the rat
R01HL-20286-02 Interventions to improve cardiac function in ischemia (dogs)
R01HL-20394-03 Complement activation by heart subcellular membranes (human, dog)
** R01HL-20598-03 The coronary vascular response to ischemia (dogs, pigs)
** R01HL-20895-03 0003 Cineangiographic studies of cardiovascular system - Densitometry in coronary stenosis (human)
** R01HL-20895-03 0004 Cineangiographic studies of cardiovascular system - Cineangiography--Coronary lesions and ventricular function (human)
** R01HL-20895-03 0008 Cineangiographic studies of cardiovascular system - Intercoronary anastomotic circulation--Stenosis and occlusion (dogs)
R23HL-21151-02 Ischemic myocardium--Delivery of blood flow and drugs (dogs)
R01HL-21239-02 Isolation and mechanism of action of thromboxane A2 (human, rabbits)
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
R01HL-21533-02 Platelet inhibitor drug in coronary surgery (human)
R01HL-21719-01 Computed cardiac tomography in infarct sizing (dogs, human)
R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction
R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
R01HL-22445-01 Platelet inhibitors--Effect on coronary bypass grafts (dogs)
** R01HL-22862-01 CNS-mediated effects of antiarrhythmic drugs (dogs)
** R01HL-22952-01 Validation of quantitative coronary arteriography (dogs)
R01HL-23071-01 Electrophysiology of lethal arrhythmias (dog, human)
R01HL-23140-01 Determinants of irreversible ischemic injury in heart (dog, rat)
R01HL-23161-01 0005 Biology of myocardial ischemia - Localization of complement in myocardial infarction (dog)
R01HL-23171-01 Coronary collateral circulation in myocardial ischemia (dog, pig, rat, human)
R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)
R01HL-23599-01 Mechanisms of ischemic rhythm disorders (dogs)
R01HL-23970-01 Mechanisms and control of sudden cardiac death (human, dog)

HEART DISORDERS, ENDOCARDIAL FIBROELASTOSIS

R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)

HEART DISORDERS, ENDOCARDITIS BACTERIAL

P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
** P01HL-06370-17 0016 Cardiopulmonary and renal pathology research center - Endocarditis with pulmonary artery catheters (dogs)
** R01HL-17751-03 Experimental endocarditis (rabbits)
** R01HL-19818-02 Endocarditis on prosthetic heart valves (rabbits, human)
** R01HL-22888-01 Prosthetic valve endocarditis--Etiology and therapy (dogs)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

HEART DISORDERS, ENDOMYOCARDIAL FIBROSIS

R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
R01HL-21786-01 Long-term effects of myocardial protection (dogs, rats)

HEART DISORDERS, HEART ARREST

R01HL-07605-16 Congenital heart disease research program (human, dogs)
P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
P01HL-11310-12 0053 Mechanisms of cardiovascular disease - Ventricular pressure-volume after cardipulmonary bypass (dogs)
P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
R01HL-13454-08 Behavioral stress and cardiomyopathy (monkeys, cats)
R01HL-16292-05 0002 Surgery and non-obstructive coronary insufficiency - Effects of hypothermia during cardiopulmonary bypass (dogs)
R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
** P50HL-17655-04 0003 Study of ischemic heart disease - Cardiopulmonary resuscitation (human, dog)
P50HL-17665-04 0020 Study of ischemic heart disease - Ischemic injury to myocardium during measured states of ischemia (human)
P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)
P50HL-17667-04 0022 Study of ischemic heart disease - Preventing myocardial injury in surgery using cardiopulmonary bypass (human, rat)
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
** R01HL-18590-03 Cerebral blood flow after cardiac arrest (dogs, monkeys)
** R01HL-18769-04 Studies in survivors of lethal arrhythmias (human)
R01HL-18794-04 Prospective studies of conduction disease (human)
** R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R01HL-20077-02 External cardiac stimulation with microwave radiation (dogs)
R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)

HEART DISORDERS, HEART ENLARGEMENT

SEE ALSO CONGENITAL ABNORMALITIES, HEART DEFECTS, ASYMMETRIC SEPTAL HYPERTROPHY
SEE ALSO HEART DISORDERS, HEART FAILURE, CONGESTIVE

R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
R01HL-07605-16 Congenital heart disease research program (human, dogs)
** R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
** P01HL-11310-12 0090 Mechanisms of cardiovascular disease - Clinicopathological cardiovascular correlation (human, animals)
P01HL-12738-10 0080 Physiologic pharmacology and its clinical applications - Electrophysiology of cardiac muscle in the mitral valve (monkeys)
R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
** R01HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
** R01HL-16637-04 Development and regression of cardiac hypertrophy (rats)
R01HL-17376-04 Analysis of Z bands in heart by optical diffraction (mammals)
P50HL-17648-04 0025 Study of ischemic heart disease - Destruction and repair of cardiac muscle cell constituents (rat)
P50HL-17648-04 0027 Study of ischemic heart disease - Phospholipid metabolism following cardiac injury and repair (rat)
R01HL-18629-04 Influence of aging and hypertension on the myocardium (rats)
R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
** R01HL-19246-03 Regression of cardiac hypertrophy--Myocardial and renal (human)
R01HL-19648-03 Myocardial protein degradation (dogs, rabbits)
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
M P01HL-20984-02 Cellular mechanisms in cardiac hypertrophy
** P01HL-20984-02 0001 Cellular mechanisms in cardiac hypertrophy - Contractile proteins in cardiac hypertrophy (rabbits, calves)
** P01HL-20984-02 0002 Cellular mechanisms in cardiac hypertrophy - Thermodynamic, fluorescence, chemical modification of hypertrophied heart myosin
** P01HL-20984-02 0003 Cellular mechanisms in cardiac hypertrophy - Fast-kinetics of myosin ATPase from normal and hypertrophied heart (rabbits)
** P01HL-20984-02 0004 Cellular mechanisms in cardiac hypertrophy - Myofibril accumulation in cardiac and vascular muscle cells in hypertrophy
** P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
** P01HL-20984-02 0006 Cellular mechanisms in cardiac hypertrophy - Early biochemical aspects of cardiac hypertrophy (rats)
** P01HL-20984-02 9001 Cellular mechanisms in cardiac hypertrophy - Animal models and preparation of contractile proteins
** P01HL-20984-02 9002 Cellular mechanisms in cardiac hypertrophy - The heart in organ culture
** R23HL-21421-01 Myocardial and vascular contractility and cyclic nucleotides (cattle, rats)
R01HL-21471-02 Structure-function studies on actin and myosin (human, protozoa, rabbits, cattle)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
** P01HL-22619-01 0006 Cellular mechanisms of heart failure - Phosphorylation of contractile proteins in cardiac muscle contraction (dogs, rabb
** P01HL-22619-01 0007 Cellular mechanisms of heart failure - Regulation of contractile protein levels in heart muscle (rats)
R01HL-22651-01 Control of protein metabolism in heart muscle
** R01HL-22664-01 Regulation of myocardial cell growth (rats, guinea pigs)
** R01HL-22859-01 Effect of carbon monoxide on the developing heart (rats)
R01HL-22985-01 Properties and assembly of Z-disk proteins (human, other species)
** R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)
** R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)
** R01HL-23626-01 A study of the regulation of myocardial hypertrophy (rats)

HEART DISORDERS, HEART ENLARGEMENT, VENTRICULAR HYPERTROPHY

** R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
P01HL-06285-18 0143 Cardiovascular-respiratory physiology and biochemistry - Myocardial ischemia (human, dogs, lambs)
P01HL-06285-18 0153 Cardiovascular-respiratory physiology and biochemistry - Myocardial mechanics and pharmacology in isolated papillary muscle (animals)
** P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)
P01HL-06285-18 0179 Cardiovascular-respiratory physiology and biochemistry - Regulation of myocardial cell growth (rats, chick embryo)
P01HL-06312-17 0048 Surgical cardiology - Use of an adjustable pulmonary artery band (dogs)
P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
** P01HL-06835-17 0037 Cardiovascular disease - Cardiac hypertrophy in spontaneously hypertensive rat
P01HL-06835-17 0038 Cardiovascular disease - Effect of chronic administration of angiotensin antagonist (rats)
P01HL-06835-17 0039 Cardiovascular disease - Reversibility of vascular changes in renal hypertension (rats)
P01HL-06835-17 0041 Cardiovascular disease - Cardiac performance in rats with renal hypertension
** P01HL-06835-17 0042 Cardiovascular disease - Myocardial hypertrophy due to renal hypertension (rats)
** P01HL-06835-17 0057 Cardiovascular disease - Studies on cardiac hypertrophy
** P01HL-06835-17 0060 Cardiovascular disease - Ventricular performance experimental models of arterial hypertension (rats, dogs)
R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
** R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
P01HL-11310-12 0053 Mechanisms of cardiovascular disease - Ventricular pressure-volume after cardipulmonary bypass (dogs)
P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
** P01HL-11310-12 0080 Mechanisms of cardiovascular disease Metabolism of the hypertrophied myocardium (human)
P01HL-11310-12 0093 Mechanisms of cardiovascular disease Multiple dipole electrocardiogram project (human, dogs)
R01HL-11876-11 Regional myocardial blood flow and metabolism (dogs, swine)
** P01HL-12373-10 0001 Cardiopulmonary physiology and pathophysiology - Mechanics of myocardial contraction (dogs, rats, swine)
** P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Determinants of performance of the whole heart (dogs)
** P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
** R01HL-13639-07 Factors altering the course of myocardial dysfunction (cats)
P50HL-14187-07 0005 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary hypertension and cardiac function (dogs, human)
P01HL-14388-07 0213 Regulation of the circulation in pathological states - Regulation of the heart and peripheral circulation in heart failure
P01HL-14388-07 0214 Regulation of the circulation in pathological states - Deformation pattern and stress analysis of the left ventricle
P01HL-14388-07 0215 Regulation of the circulation in pathological states - Left ventricle model in pathophysiologic states
** P01HL-14388-07 0216 Regulation of the circulation in pathological states - Development and regression of ventricular hypertrophy (cats, rats)
** P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
** R01HL-14545-06 Mechanics of compensatory ventricular hypertrophy (dogs)
R01HL-14651-05 Mechanical behavior of left ventricle (dogs, rats)
** R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
R01HL-14903-07 A new index of cardiac contractility (human, dogs, baboons)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
P01HL-15194-07 0001 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, venous drainage and collateral flow (human, dogs)
** R01HL-15498-06 Effects of physical training on heart (rats)
R01HL-15888-05 Comparative stereology of the myocardium (birds, mammals)
** R01HL-15983-04 Regional myocardial blood flow (dogs)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
P01HL-16117-05 0005 Ion movements and membranes in cardiovascular control - Properties of isolated cell membranes (rabbits, cats)
** R01HL-16420-02 Effect of training-detraining on the rat heart
R01HL-16656-06 Left ventricular function in exercise (dogs)
** R01HL-16706-04 Excitation-contraction coupling and heart failure (dogs, rabbits)
** P60HL-17269-04 0020 National heart and blood vessel research and demonstration center - Nucleic acid and protein metabolism in growth and development of heart (rat)
** P60HL-17269-04 0021 National heart and blood vessel research and demonstration center - Growth and development of heart--Ultrastructure (dog, guinea pig, rat, cat)
** R01HL-17592-03 Activation and contraction heat in enlarged hearts (rabbits)
** R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
P50HL-17667-04 0045 Study of ischemic heart disease - Pathology of myocardial ischemic necrosis (human)
P50HL-17670-04 0005 Study of ischemic heart disease - Quantitative assessment of the vectorcardiogram (human)
P50HL-17682-04 0001 Study of ischemic heart disease - Studies in acute and chronic ischemic heart disease (human)
P50HL-17682-04 0012 Study of ischemic heart disease - Pathology core laboratory (human)
P50HL-17682-04 0016 Study of ischemic heart disease - Endurance exercise--Prevention and rehabilitation in ischemic heart disease (pig)
** R01HL-17931-04 Normalized body surface potential maps (children)
** R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
** R01HL-18087-03 Development and regression of cardiac hypertrophy (rats, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
P50HL-18323-04 0012 SCOR hypertension center - Renin as a risk factor (human)
R01HL-18338-04 Computer feedback study of cardiac muscle mechanics (rats)
R01HL-18456-03 Cardiovascular follow-up of hypertensive adolescents
R01HL-18468-03 The distribution of flow in the myocardium (dog, pig)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
R01HL-18850-03 Classification code for Frank orthogonal ECG
R01HL-18933-03 Energy output and efficiency of left ventricle (dog)
** R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
** R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
** R01HL-19425-03 Cardiac function in hypertrophy (dog)
** R01HL-19461-03 Myocardial energetics in hypertrophy and heart failure (rabbits)
R01HL-19486-03 Oipole moment measurement of cardiac mass (rabbits, pigs)
R01HL-20087-02 Oevelopmental processes in pulmonary hypertension (rats)
** R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
R01HL-20211-02 Role of taurine in the heart (dogs, rats, mice)
M P01HL-20552-02 The development and regression of cardiac hypertrophy
** P01HL-20552-02 0001 The development and regression of cardiac hypertrophy - Biochemical events in cardiac hypertrophy (rats)
** P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
** P01HL-20552-02 0003 The development and regression of cardiac hypertrophy - Muscle mechanics of the hypertrophied left ventricle (rats)
** P01HL-20552-02 0004 The development and regression of cardiac hypertrophy - Ventricular function in experimentally induced hypertrophy (hogs, sheep, baboons)
** P01HL-20552-02 0010 The development and regression of cardiac hypertrophy - Energy metabolism in the hypertrophied heart animals
** P01HL-20552-02 9001 The development and regression of cardiac hypertrophy - Core A–Pathology
** P01HL-20552-02 9002 The development and regression of cardiac hypertrophy - Core B–Biomathematics
** P01HL-20552-02 9003 The development and regression of cardiac hypertrophy - Core D–Amino acids analysis
M R01HL-20572-02 Hemodynamic relations to metabolism in hypertension
** R01HL-20572-02 0001 Hemodynamic relations to metabolism in hypertension - Hemodynamic and myocardial functional studies in the SHR (rat)
** R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood flow in hypertension (rats)
** R01HL-20572-02 0007 Hemodynamic relations to metabolism in hypertension - Orug effects on cardiac function and hypertropy (rats)
M P01HL-20592-02 Cell biology of cardiac and skeletal muscle
** P01HL-20592-02 0010 Cell biology of cardiac and skeletal muscle - Mitochondrial genesis during myocardial cell hypertrophy and hyperplasia (rats)
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
** R01HL-20749-01 Developing heart–Biophysical aspects (sheep)
** R01HL-20768-02 Mechanisms of circulatory regulation in heart failure (guinea pigs)
** R01HL-20827-02 Effects of hypertrophy on the coronary circulation (dogs)
** R01HL-20883-02 Fiber geometry in hypertrophy and cardiomyopathy (human)
** R23HL-21167-02 The electrophysiology of cardiac hypertrophy (rats)
** R01HL-21182-02 Active tension and shortening in cardiac hypertrophy (rabbits)
** R23HL-21197-02 Right ventricular contraction and relaxation (dogs)
** R23HL-21234-02 The regulation of cardiac hypertrophy (rabbits)
** R23HL-21292-01 Human ventricular activation--Patterns and mechanisms (human)
R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
** R01HL-21820-01 Regulatory role of myosin in cardiac hypertrophy (dogs)
** R01HL-21850-01 Calcium transport in the hypertrophied myocardium (rats, animals)
** R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
** R01HL-21993-01 Hypertensive hypertrophy--Effects of cardiac mechanics (rats)
** R01HL-22008-01 Left ventrivular calcium content and contractility (rats)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
** R01HL-22269-01 Excitation-contraction coupling in enlarged hearts (rabbits)
** P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
** R01HL-22828-01 Adenosine and catecholamine interaction in the heart (rats)
R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)
N01HV-42911-07 ECG center for prevention of coronary heart disease (human)

HEART DISORDERS, HEART FAILURE

** P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
M R01HL-10612-13 Humoral factors in heart failure and hypertension
P01HL-11307-12 0003 Biophysical studies in pediatric cardiology - Cellular biophysics (animals)
P01HL-11310-12 0056 Mechanisms of cardiovascular disease - Cardiac output response to blood pressure reduction in infants (human)
P01HL-11310-12 0080 Mechanisms of cardiovascular disease - Metabolism of the hypertrophied myocardium (human)
P01HL-11678-11 0020 Cardiovascular dynamics and their control - Circulatory and pulmonary fluid dynamics during pulmonary edema
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
** P01HL-12738-10 0071 Physiologic pharmacology and its clinical applications - IABP patient management in ventricular power failure (human)
P01HL-12738-10 0092 Physiologic pharmacology and its clinical applications - Subendocardial ischemia following open heart surgery (human)
** P01HL-12738-10 0098 Physiologic pharmacology and its clinical applications - Skeletal muscle support of the chronically failing heart (dogs)
P01HL-12738-10 0123 Physiologic pharmacology and its olinical applications - Ventricular assistance and preservation (human, dogs)
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
** R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
** P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
R01HL-13715-08 Myocardial adenyl cyclase (rats)
P01HL-13737-07 0007 Assisted circulation - Oetermination of cardiac status by use of balloon pump (dogs)
P01HL-13737-07 0009 Assisted circulation - Analytical models
** P01HL-13737-07 0029 Assisted circulation - Chronic left ventricular failure (human)
P01HL-13737-07 0032 Assisted circulation - The dynamic aortic patch (human, dogs)
P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
P01HL-13738-08 0003 Cardiac assist devices and artificial hearts - Pathophysiological effects of the artificial heart (calves)
** P50HL-14187-07 0005 Pulmonary SCOR–Chemical mediators in pulmonary vascular responses - Pulmonary hypertension and cardiac function (dogs, human)
P01HL-14388-07 0172 Regulation of the circulation in pathological states - cAMP-dependent protein kinase from heart and vascular smooth muscle (guinea pigs)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
** P01HL-14388-07 0211 Regulation of the circulation in pathological states - Choline acetyltransferase activity (rats)
** P01HL-14388-07 0213 Regulation of the circulation in pathological states - Regulation of the heart and peripheral circulation in heart failure
** R01HL-14545-06 Mechanics of compensatory ventricular hypertrophy (dogs)
** R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
** R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
R01HL-15740-06 In vitro studies on heart cell function (rats)
** R01HL-15758-06 Catecholamine release in the heart (dogs)
** R01HL-15983-04 Regional myocardial blood flow (dogs)
** R01HL-16233-05 Molecular cardiology of MDP-induced left ventricular failure (dogs)
R01HL-16606-11 Contraction in heart and other striated muscles (frogs)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
** R01HL-16706-04 Excitation-contraction coupling and heart failure (dogs, rabbits)
P60HL-17269-04 0018 National heart and blood vessel research and demonstration center - Mitochondria and energetics (rabbits, dogs)
P60HL-17269-04 0029 National heart and blood vessel research and demonstration center - Clinical application of circulatory assistance (human)
** R01HL-17403-03 Metabolic control of cardiac output (dogs)
R01HL-17555-05 Distribution and metabolism of labeled digitaloids (dogs, guinea pigs)
P50HL-17648-04 0011 Study of ischemic heart disease - Surgical treatment for acute myocardial ischemia (human, dogs)
P50HL-17651-04 0015 Ischemic heart disease specialized center of research - Peripheral circulation in acute myocardial ischemia and infarction (human)
P50HL-17655-04 0001 Study of ischemic heart disease - Intravenous nitroglycerin--Ventricular function and infarct size (human, dog)
P50HL-17665-04 0012 Study of ischemic heart disease - Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog
P50HL-17667-04 0038 Study of ischemic heart disease - Clinical core unit
P50HL-17669-04 0007 Ischemic heart disease center (SCOR) - Relationship between myocardial depression and compliance (dogs, cats)
** R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
R01HL-18338-04 Computer feedback study of cardiac muscle mechanics (rats)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
** R01HL-18749-03 Ventricular mechanics in the overloaded heart (dogs)
** R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
** R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
** R01HL-19044-03 Effect of drugs on development of cardiac failure (cats)
** R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
** R01HL-19485-03 Calcium uptake by normal and failed cardiac ATPase (dogs)
R01HL-20476-03 Effects of diabetes on cardiac performance (rat)
** P01HL-20552-02 0010 The development and regression of cardiac hypertrophy - Energy metabolism in the hypertrophied heart animals
R01HL-20630-03 Oevelopment of a pulsed Ooppler velocity detector (human, animals)
** R01HL-20768-02 Mechanisms of circulatory regulation in heart failure (guinea pigs)
** R01HL-20803-02 Intra-aortic balloon pumping (dogs, lambs, cats)
** P01HL-20984-02 0001 Cellular mechanisms in cardiac hypertrophy - Contractile proteins in cardiac hypertrophy (rabbits, calves)
** R01HL-21038-01 Electrically induced cardiac EM-histochemical changes (animals)
** R01HL-21239-02 Isolation and mechanism of action of thromboxane A2 (human, rabbits)
** R23HL-21421-01 Myocardial and vascular contractility and cyclic nucleotides (cattle, rats)
R01HL-21452-02 Pulmonary capillary filtration in myocardial ishemia (dogs)
** R01HL-21493-02 Contractility in cardiac failure (hamsters)
** R01HL-21498-02 Pathophysiology of edema (rats, cats)
** R23HL-21842-01 Control of sugar entry in normal and diabetic heart (rats)
** R01HL-21846-01 Cardiac failure detection by radiography and optics (monkeys)
** R01HL-21850-01 Calcium transport in the hypertrophied myocardium (rats, animals)
R01HL-21948-01 Capillary, tissue volume and lymph flow in lung edema (sheep, cattle)
** R01HL-22008-01 Left ventrivular calcium content and contractility (rats)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
R01HL-22064-02 Glycogen metabolism in anoxic diabetic myocardium (rats)
R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)
R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R23HL-22575-01 Factors modifying cardiac digoxin affects and content (dogs, cats)
** P01HL-22619-01 0002 Cellular mechanisms of heart failure - Structure of sodium, potassium-adenosine triphosphatase (lambs, dogs)
** P01HL-22619-01 0006 Cellular mechanisms of heart failure - Phosphorylation of contractile proteins in cardiac muscle contraction (dogs, rabb
** P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
** P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
** P01HL-22619-01 9001 Cellular mechanisms of heart failure - Experimental pathological models core
** R01HL-22750-01 Digoxin in heart failure with sinus rhythm (human)
** N01HV-53006-06 Evaluation of model VII left ventricular assist device (human)

HEART DISORDERS, HEART FAILURE, CONGESTIVE

SEE ALSO HEART DISORDERS, HEART ENLARGEMENT
R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
** R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
P01HL-06285-18 0145 Cardiovascular-respiratory physiology and biochemistry - Pulmonary, pleural and systemic microcirculation (animals)
** P01HL-06308-18 0042 Mechanisms and therapy of circulatory disease - Echocardiographic assessment of arrhythmias--Myocardial tissue type (human, dogs)
** R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
** R01HL-09234-13 Amino acids of contractile proteins of failing hearts (dogs, hamsters)
R01HL-09711-13 Instantaneous blood flow in ascending aorta (human, dogs)
** R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
R01HL-10182-13 Circulatory function and electrolytic metabolism (dogs, human)
P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
** R01HL-10612-13 0021 Humoral factors in heart failure and hypertension - The control of aldosterone secretion (dogs)
P01HL-11310-12 0091 Mechanisms of cardiovascular disease - Noninvasive techniques in cardiovascular diagnosis (human)
P01HL-11678-11 0027 Cardiovascular dynamics and their control - Vasopressin and thirst in control of body fluid volumes and osmolality (dogs)
R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
R01HL-13426-09 Left ventricular bypass for myocardial infarction (cattle, human)
R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
R01HL-13623-08 Atrial receptors (dogs)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
** R01HL-13639-07 Factors altering the course of myocardial dysfunction (cats)
R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
R01HL-14148-07 0008 The regional circulations - Renal circulation in hypertensive patients (also dogs)
P01HL-14388-07 0221 Regulation of the circulation in pathological states - Experimental myocardial infarction (dogs)
** R01HL-14461-08 Cardiac metabolism in heart failure (rats)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
P60HL-17269-04 0019 National heart and blood vessel research and demonstration center - Sarcoplasmic reticulum (dog, rabbit, hamster, cat)
P60HL-17269-04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat)
P60HL-17269-04 0024 National heart and blood vessel research and demonstration center - Section of experimental cardiovascular surgery--Core facility
** R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
P50HL-17651-04 0046 Ischemic heart disease specialized center of research - Clinical core--Physiological changes/biochemical effects of myocardial ischemia
** P50HL-17665-04 0022 Study of ischemic heart disease - Effect of coronary revascularization on left ventricular function (human)
P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
R01HL-17796-04 Importance of aminosugars in digitalis activity (cats, rabbits)
** R01HL-17853-03 Peripheral circulation in heart failure (animals)
R01HL-18204-03 Regional blood flow in viral myocarditis (turkeys)
P50HL-18318-03 0010 Pathogenesis and complications of hypertension - Hemodynamics in mineralocorticoid and low renin hypertension (human)
P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
** R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
** R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
** R01HL-18862-02 Thirst and its contribution to edema (dogs)
R01HL-18866-02 Microvascular flow, volume, and reactivity (rats, cats)
** R01HL-18873-02 Early radiologic diagnosis of cardiac failure (monkey)
R01HL-19044-03 Effect of drugs on development of cardiac failure (cats)
** R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
R01HL-19425-03 Cardiac function in hypertrophy (dog)
** R01HL-19461-03 Myocardial energetics in hypertrophy and heart failure (rabbits)
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
** R01HL-21052-01 Evaluation of a digitalis therapy advisor
** R23HL-21066-02 Angiotensin and prostaglandin control of aldosterone (rats)
R23HL-21203-02 Effect of vasoactive agents on left-to-right shunts (lambs)
R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
R01HL-21843-01 Ischemia, diabetes and the microcirculation (rats, cats, hamsters)
R01HL-22051-01 Role of angiotensin II in vasopressin release (human)
** R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)
M P01HL-22619-01 Cellular mechanisms of heart failure
** P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
** P01HL-22619-01 0007 Cellular mechanisms of heart failure - Regulation of contractile protein levels in heart muscle (rats)
R01HL-22750-01 Digoxin in heart failure with sinus rhythm (human)
R23HL-22882-01 Modulation by disease of effect of furosemide in man
** R23HL-22959-01 Heart development in inherited cardiomyopathy (hamsters)
** R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
** R01HL-23115-01 Regulation of active sodium transport (frogs, rats)

HEART DISORDERS, MYOCARDIAL DISORDERS

SEE ALSO CONGENITAL ABNORMALITIES, HEART DEFECTS, ASYMMETRIC SEPTAL HYPERTROPHY
SEE ALSO HEART DISORDERS, CORONARY, MYOCARDIAL INFARCT
SEE ALSO HEART DISORDERS, CORONARY, MYOCARDIAL ISCHEMIA AND HYPOXIA
SEE ALSO HEART DISORDERS, ENDOMYOCARDIAL FIBROSIS
P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
R01HL-05694-20 Functional pathology of cardiovascular disease (human)
** R01HL-05875-18 Pathologic metabolic and physiologic studies of heart (human, dogs, cats)
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
** R01HL-09234-13 Amino acids of contractile proteins of failing hearts (dogs, hamsters)
** R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
** R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
M P01HL-10539-12 Pathophysiology of circulation
** P01HL-10539-12 0068 Pathophysiology of circulation - Acute and chronic cardiomyopathies (mice, dogs, hamsters, human)
P01HL-11310-12 0053 Mechanisms of cardiovascular disease Ventricular pressure-volume after cardiopulmonary bypass (dogs)
** P01HL-11310-12 0080 Mechanisms of cardiovascular disease - Metabolism of the hypertrophied myocardium (human)
** R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
** P01HL-13108-09 0013 Clinical heart transplantation - Cardiomyopathic lymphocyte responsiveness to cultured endothelium
** R01HL-13454-08 Behavioral stress and cardiomyopathy (monkeys, cats)
** P01HL-14388-07 0218 Regulation of the circulation in pathological states - Regional myocardial dyskinesis--Cause assessment and reduction (dogs)
P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
R01HL-14651-05 Mechanical behavior of left ventricle (dogs, rats)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
** R01HL-14938-06 Contractile proteins of heart muscle (dogs, rabbits)
P01HL-15194-07 0001 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, venous drainage and collateral flow (human, dogs)
P01HL-15194-07 0020 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation in arteriographically normal arteries (human)
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)
** R01HL-18032-03 Development of normal and myopathic mammalian heart (hamsters)
R01HL-18456-03 Cardiovascular follow-up of hypertensive adolescents
** R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
** R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
R01HL-19003-03 High precision densitometry of coronary angiograms
R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
R01HL-19232-03 ECHO changes in wall motion with myocardial ischemia
** R01HL-20369-03 The effect of alcohol on the heart (rats)
** R01HL-20401-03 Relationship of insulin to catechol cardiomyopathy (rabbit, pig)
** R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
R01HL-20428-03 The juvenile diabetic heart (human)
** R01HL-20754-02 Anesthetic-induced myocardial depression (rabbits)
R01HL-20883-02 Fiber geometry in hypertrophy and cardiomyopathy (human)
R01HL-21276-02 Development of 99-mTc myocardial imaging agents
** R23HL-21327-02 Molecular mechanisms of chemical myocardiopathies (rats)
** R01HL-21482-01 Cardiac function and metabolism in diabetes (rats)
R01HL-21493-02 Contractility in cardiac failure (hamsters)
** R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
** R01HL-22550-02 Genetic cardiomyopathies in salamanders and hamsters
R01HL-22750-01 Digoxin in heart failure with sinus rhythm (human)
** R23HL-22959-01 Heart development in inherited cardiomyopathy (hamsters)
** R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)

HEART DISORDERS, MYOCARDIAL DISORDERS, HYPERTROPHIC MYOCARDIOPATHY

SEE ALSO CONGENITAL ABNORMALITIES, HEART DEFECTS, ASYMMETRIC SEPTAL HYPERTROPHY
SEE ALSO HEART DISORDERS, HEART ENLARGEMENT, VENTRICULAR HYPERTROPHY
P01HL-11310-12 0089 Mechanisms of cardiovascular disease - Structure and function in myocardial contraction (dogs)
** R01HL-20895-03 0011 Cineangiographic studies of cardiovascular system - Ventricular hypertrophy and preoutflow contraction (human, dogs)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-21970-01 Myofibrillar assembly and breakdown in cardiac muscle (rats)

HEART DISORDERS, MYOCARDITIS

** P01HL-10539-12 0068 Pathophysiology of circulation - Acute and chronic cardiomyopathies (mice, dogs, hamsters, human)
** R01HL-18204-03 Regional blood flow in viral myocarditis (turkeys)
** R01HL-18535-03 Epidemiology and course of viral myopericarditis (human)
** R01HL-21047-01 Studies of coxsackievirus-induced myocarditis in mice

HEART DISORDERS, OUTPUT ABNORMALITIES

SEE ALSO HEART DISORDERS, HEART FAILURE
SEE ALSO HEART DISORDERS, VALVULAR

** P01HL-06285-18 0131 Cardiovascular-respiratory physiology and biochemistry - Fetal heart development and ventricular outflow obstruction (lambs)
P01HL-06285-18 0157 Cardiovascular-respiratory physiology and biochemistry - Left ventricle outflow impedance analysis (human)
P01HL-07293-17 0051 Non-invasive cardiovascular measurements - Physiologic evaluation of duplex scanner (dogs)
P01HL-08682-15 0026 Regulation of the cardiovascular system - Hypertension--High renin vs low renin (dog)
P01HL-12738-10 0071 Physiologic pharmacology and its clinical applications - IABP patient management in ventricular power failure (human)
P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
P01HL-13480-09 0026 Cardiac electrophysiology - Neural influences on cardiac electrophysiology and contraction (dog, cat)
P50HL-14187-07 0005 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary hypertension and cardiac function (dogs, human)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
R01HL-16233-05 Molecular cardiology of MOP-induced left ventricular failure (dogs)
R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
** P50HL-19190-02 0008 Pulmonary SCOR--Pathophysiology, management of IROS - Hemodynamics and gas exchange--Determinants of hypotension (human, infant)

HEART DISORDERS, PERICARDITIS

** R01HL-18535-03 Epidemiology and course of viral myopericarditis (human)
R01HL-20597-02 Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits)

HEART DISORDERS, RHEUMATIC HEART DISEASE

** R01HL-01803-23 0019 Arteriosclerosis, glomerulonephritis, rheumatic fever - Pathogenesis of rheumatic heart disease (rabbit)
P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
** P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
** R01HL-19234-03 Streptococci and heart--Cell-mediated cross-reaction (mice)
** R01HL-19307-03 Problems in prevention of rheumatic heart disease (human)

HEART DISORDERS, SUDDEN DEATH

R01HL-03341-22 Epidemiology of atherosclerosis in Evans Co Georgia
** R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
** P01HL-06308-18 0010 Mechanisms and therapy of circulatory disease - Ventricular arrhythmias during exercise to CHD and myocardial ischemia (human)
** P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
** P01HL-06308-18 0037 Mechanisms and therapy of circulatory disease - Electrophysiology, blood flow, and ANS in ventricular fibrillation (dogs)
R01HL-07047-16 Comparative study of cardiac conduction system (human, birds, mammals)
R01HL-07605-16 Congenital heart disease research program (human, dogs)
** R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
M P01HL-08974-14 Natural and experimental atherosclerosis
** P01HL-08974-14 0005 Natural and experimental atherosclerosis - Atherosclerosis, coronary heart disease and sudden death (human)
** P01HL-11310-12 0090 Mechanisms of cardiovascular disease - Clinicopathological cardiovascular correlation (human, animals)
** P01HL-12738-10 0117 Physiologic pharmacology and its clinical applications - Ventricular arrhythmias in ischemic heart disease (human)
P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
** R01HL-13454-08 Behavioral stress and cardiomyopathy (monkeys, cats)
P01HL-13480-09 0026 Cardiac electrophysiology - Neural influences on cardiac electrophysiology and contraction (dog, cat)
** R01HL-13974-07 Ventricular premature beats and sudden coronary death (human)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
** R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
** R01HL-17532-04 Infarct size--ECG, angio, path, correlation in dogs
P50HL-17655-04 0006 Study of ischemic heart disease - Evaluation of coronary artery bypass graft surgery (human)
P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
** P50HL-17670-04 0012 Study of ischemic heart disease - Epidemiology of sudden death (human)
** R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
** R01HL-18769-04 Studies in survivors of lethal arrhythmias (human)
** R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
** R01HL-18783-04 Detection and control of ventricular premature beats (human)
** R01HL-18793-03 Clinical-pathologic studies of sudden cardiac death (human)
** R01HL-18794-04 Prospective studies of conduction disease (human)
R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
M R01HL-18798-04 Nervous and ionic factors in sudden cardiac death
** R01HL-18798-04 0003 Nervous and ionic factors in sudden cardiac death - Left stellectomy in the prevention of sudden death (dogs)
** R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
M R01HL-18805-04 Sudden cardiac death and the onset of myocardial infarction
** R01HL-18805-04 0001 Sudden cardiac death and the onset of myocardial infarction - Predictive value of maximum exercise stress testing (human)
** R01HL-18805-04 0003 Sudden cardiac death and the onset of myocardial infarction - Prediction from clinical and laboratory assessments (human)
** R01HL-18805-04 0004 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Clinical follow-up and therapy (human)
** R01HL-18805-04 0005 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Radionuclide studies (human)
** R01HL-18805-04 0007 Sudden cardiac death and the onset of myocardial infarction - Analysis of pathologic factors involved in sudden death (human)
M R01HL-18808-04 Prediction and prevention of sudden cardiac death
** R01HL-18808-04 0001 Prediction and prevention of sudden cardiac death - Prognostic significance of premature ventricular contractions (human)
R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
** R01HL-19398-03 Regional conduction abnormalities and arrhythmias (dogs)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL-19680-01 Cardiac correlates of behavioral stress in animals (dog)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
** R01HL-20179-02 Epidemiology of sudden cardiac death among women
** R01HL-20238-02 Prospective bundle branch block study (human)
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
** R01HL-21527-01 Prospective study of bundle branch block (human)
** R01HL-21654-01 Autonomic determinants of arrhythmia due to ischemia (cats)
** R01HL-21674-01 Development of automatic implanted defibrillator (dogs, cattle)
R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
** R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)
** R01HL-22862-01 CNS-mediated effects of antiarrhythmic drugs (dogs)
** R01HL-23071-01 Electrophysiology of lethal arrhythmias (dog, human)
** R01HL-23078-01 Psychosocial stress and sudden coronary death (human)
** R01HL-23970-01 Mechanisms and control of sudden cardiac death (human, dog)

HEART DISORDERS, VALVULAR

SEE ALSO HEART TRANSPLANTATION, VALVES
TRANSPLANTATION

P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
R01HL-05694-20 Functional pathology of cardiovascular disease (human)
** P01HL-06308-18 0012 Mechanisms and therapy of circulatory disease - Echocardiographic evaluation of hemodynamics of arrhythmia (human)
P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
P01HL-06314-17 0061 Immunologic mechanisms in cardiovascular disease - Role of viruses in cardiovascular and renal disease (human, mice)
M P01HL-07293-17 Non-invasive cardiovascular measurements
P01HL-07293-17 0043 Non-invasive cardiovascular measurements - ECHO-Doppler instrumentation for cardiac measurements (human)
P01HL-07293-17 0045 Non-invasive cardiovascular measurements - Cardiac scanner transducer position locating systems (human)
P01HL-07293-17 0047 Non-invasive cardiovascular measurements - Cardiac scanner system software
P01HL-07293-17 0051 Non-invasive cardiovascular measurements - Physiologic evaluation of duplex scanner (dogs)
P01HL-07293-17 0052 Non-invasive cardiovascular measurements - Clinical evaluation of the duplex scanner (human)
P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
R01HL-07605-16 Congenital heart disease research program (human, dogs)
R01HL-09711-13 Instantaneous blood flow in ascending aorta (human, dogs)
** P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
P01HL-10436-13 0009 A multidisciplinary study of congenital heart disease - Pathophysiology and morphogenesis of congenital heart disease (human)
** P01HL-11310-12 0080 Mechanisms of cardiovascular disease - Metabolism of the hypertrophied myocardium (human)
P01HL-11310-12 0081 Mechanisms of cardiovascular disease - Analysis of regional left ventricular function (human)
** P01HL-11310-12 9001 Mechanisms of cardiovascular disease - Core support-hospital beds
** P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
P01HL-12738-10 0080 Physiologic pharmacology and its clinical applications - Electrophysiology of cardiac muscle in the mitral valve (monkeys)
R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
R01HL-14903-07 A new index of cardiac contractility (human, dogs, baboons)
** R01HL-16461-05 Late results of valve replacement--Computer analysis (human)
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
R01HL-18850-03 Classification code for Frank orthogonal ECG
R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
R01HL-19136-03 Mucopolysaccharide metabolism in cardiac anomalies (rats)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL-19818-02 Endocarditis on prosthetic heart valves (rabbits, human)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)
R01HL-20677-02 Radionuclide studies in congenital heart disease
R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)
R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)

HEART DISORDERS, VALVULAR, AORTIC VALVE DISORDERS

P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Determinants of performance of the whole heart (dogs)
** P01HL-14388-07 0162 Regulation of the circulation in pathological states - Phasic coronary flow and myocardial perfusion in aortic regurgitation (dogs)
P60HL-17269-04 0032 National heart and blood vessel research and demonstration center - Clinical circulatory assist device fabrication

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-17969-04 Function and structure of semilunar valves (dogs)
** R01HL-18683-03 Left ventricle function in aortic regurgitation (human)

HEART DISORDERS, VALVULAR, AORTIC VALVE STENOSIS

** P01HL-06285-18 0127 Cardiovascular-respiratory physiology and biochemistry - Experimental congenital cardiac lesions in fetal lambs
P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)
R01HL-09474-11 Natural history-congenital heart defects--Joint study (human)
R01HL-09476-10 Natural history, congenital heart defects--Joint study
P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
R01HL-10718-10 Natural history of congenital heart defects--Joint study (human)
** R01HL-12542-07 Natural history, congenital heart defects--Joint study (human)
P01HL-15194-07 0020 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation in arteriographically normal arteries (human)
P50HL-17655-04 0011 Study of ischemic heart disease - Core facility--Cardiovascular nuclear medicine (human, dog)
** R01HL-17931-04 Normalized body surface potential maps (children)
R01HL-18338-04 Computer feedback study of cardiac muscle mechanics (rats)
R01HL-18794-04 Prospective studies of conduction disease (human)
R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
R01HL-19425-03 Cardiac function in hypertrophy (dog)
R01HL-20037-02 Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle)
** R01HL-20749-01 Developing heart--Biophysical aspects (sheep)

HEART DISORDERS, VALVULAR, MITRAL STENOSIS

R01HL-05694-20 Functional pathology of cardiovascular disease (human)
R01HL-10009-13 Regional lung function in man
P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
R01HL-11919-08 Pulmonary circulation in surgical heart disease (human, dogs)
P01HL-15194-07 0020 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation in arteriographically normal arteries (human)
P50HL-17670-04 0005 Study of ischemic heart disease - Quantitative assessment of the vectorcardiogram (human)
R01HL-18862-02 Thirst and its contribution to edema (dogs)
R01HL-19225-02 0004 Types and mechanims of pulmonary hypertension - Structural changes in human pulmonary circulation (human, animals)
** R01HL-19391-03 Dynamic determinants of left ventricular filling (dogs)

HEART DISORDERS, VALVULAR, PULMONARY VALVE STENOSIS

SEE ALSO CONGENITAL ABNORMALITIES, HEART DEFECTS, TETRALOGY OF FALLOT

** P01HL-06285-18 0127 Cardiovascular-respiratory physiology and biochemistry - Experimental congenital cardiac lesions in fetal lambs
R01HL-09474-11 Natural history-congenital heart defects--Joint study (human)
R01HL-09476-10 Natural history, congenital heart defects--Joint study
R01HL-10718-10 Natural history of congenital heart defects--Joint study (human)
** R01HL-12542-07 Natural history, congenital heart defects--Joint study (human)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
R01HL-18862-02 Thirst and its contribution to edema (dogs)
** R01HL-20749-01 Developing heart--Biophysical aspects (sheep)

HEART DISORDERS, VALVULAR INSUFFICIENCY

P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
R01HL-18156-02 Hemodynamics in curved arteries
R01HL-18338-04 Computer feedback study of cardiac muscle mechanics (rats)
** R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system Videodensitometry and valvular regurgitation (human, dogs)

HEART DISORDERS, VALVULAR INSUFFICIENCY, AORTIC INSUFFICIENCY

P01HL-07293-17 0053 Non-invasive cardiovascular measurements - Clinical evaluation of cardiac dimensions using the duplex scanner (human)
P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)

HEART DISORDERS, VALVULAR INSUFFICIENCY, MITRAL INSUFFICIENCY

P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
R01HL-09711-13 Instantaneous blood flow in ascending aorta (human, dogs)
P01HL-12738-10 0080 Physiologic pharmacology and its clinical applications - Electrophysiology of cardiac muscle in the mitral valve (monkeys)
P01HL-12738-10 0136 Physiologic pharmacology and its clinical applications -
R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
** R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
R01HL-18783-04 Detection and control of ventricular premature beats (human)
** R01HL-19391-03 Dynamic determinants of left ventricular filling (dogs)

HEART DISORDERS, VALVULAR INSUFFICIENCY, TRICUSPID INSUFFICIENCY

P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
P50HL-14187-07 0005 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary hypertension and cardiac function (dogs, human)

HEART DISORDERS CHEMOTHERAPY

SEE ALSO CARDIOVASCULAR AGENTS, ANTIARRHYTHMIC AGENTS
SEE ALSO CARDIOVASCULAR AGENTS, ARRHYTHMIC AGENTS
SEE ALSO CARDIOVASCULAR AGENTS, CARDIOTONIC AND CARDIOPROTECTIVE DRUGS (GENERAL)

R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
** R01HL-05875-18 Pathologic metabolic and physiologic studies of heart (human, dogs, cats)
** P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
M P01HL-06308-18 Mechanisms and therapy of circulatory disease
** P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
** P01HL-06308-18 0029 Mechanisms and therapy of circulatory disease - Characterization of the patient with recurrent ventricular arrhythmias
** P01HL-06308-18 0037 Mechanisms and therapy of circulatory disease - Electrophysiology, blood flow, and ANS in ventricular fibrillation (dogs)
P01HL-06308-18 0038 Mechanisms and therapy of circulatory disease - Electrophysiology of ventricualr arrhythmias associated with ischemia (dogs)
P01HL-06312-17 0016 Surgical cardiology - Effect of hydralazine on infarct size following coronary occlusion (human)
P01HL-06312-17 0030 Surgical cardiology - Total artificial heart (calves)
P01HL-06312-17 0051 Surgical cardiology - Diuretic therapy on myocardial electrolyte composition and water content (human)
** P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
** P01HL-06664-17 0034 Cardiopulmonary function in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
** R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
** R01HL-08888-12 Cooperative study of drugs and coronary heart disease (men)
R01HL-08892-10 Cooperative study of drugs and coronary heart disease
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
** R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
** R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
** R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)
R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
R01HL-13639-07 Factors altering the course of myocardial dysfunction (cats)
R01HL-14646-05 Pathophysiology of myocardial ischemia (dogs, rats)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
** R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)
P50HL-17646-04 0001 Study of ischemic heart disease - Core clinical investigation unit
** P50HL-17646-04 0015 Study of ischemic heart disease - Protecting ischemic myocardium in patients with evolving myocardial infarction
P50HL-17648-04 Study of ischemic heart disease
P50HL-17651-04 0015 Ischemic heart disease specialized center of research - Peripheral circulation in acute myocardial ischemia and infarction (human)
** P50HL-17651-04 0016 Ischemic heart disease specialized center of research - Retroperfusion of coronary venus circulation with therapeutic agents (dogs)
P50HL-17651-04 0022 Ischemic heart disease specialized center of research - Electrophysiology--Mechanism and pharmacology of arrhythmias (human, dog)
P50HL-17651-04 0043 Ischemic heart disease specialized center of research - Gradual reperfusion following acute coronary occlusion (dog)
M P50HL-17655-04 Study of ischemic heart disease
** P50HL-17655-04 0001 Study of ischemic heart disease - Intravenous nitroglycerin--Ventricular function and infarct size (human, dog)
** P50HL-17655-04 0009 Study of ischemic heart disease - Random trial of medical and surgical therapy in unstable angina (human)
P50HL-17655-04 0014 Study of ischemic heart disease - Blood flow and gas tension in myocardial ischemia and infarction (dog, monkey)
** P50HL-17665-04 0002 Study of ischemic heart disease - Reducing acute anterior myocardial infarction--Beta adrenergic blockade (human)
** P50HL-17665-04 0013 Study of ischemic heart disease - National cooperative study in unstable angina pectoris (human)
P50HL-17665-04 0020 Study of ischemic heart disease - Ischemic injury to myocardium during measured states of ischemia (human)
P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human)
P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
P50HL-17667-04 0019 Study of ischemic heart disease - Assessment of long-term results of coronary artery bypass grafting (human)
P50HL-17667-04 0038 Study of ischemic heart disease - Clinical core unit
** P50HL-17669-04 0012 Ischemic heart disease center (SCOR) - Circulatory assistance (human, dog)
P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
P50HL-17670-04 0020 Study of ischemic heart disease - Radionuclide evaluation of coronary artery disease (human, dog)
** P50HL-17682-04 0001 Study of ischemic heart disease - Studies in acute and chronic ischemic heart disease (human)
P50HL-17682-04 0008 Study of ischemic heart disease - Clinical core unit
R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
R01HL-18204-03 Regional blood flow in viral myocarditis (turkeys)
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
R01HL-18537-04 Regional blood flow after acute myocardial injury (dogs)
R01HL-18769-04 Studies in survivors of lethal arrhythmias (human)
R01HL-18783-04 Detection and control of ventricular premature beats (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-18794-04 Prospective studies of conduction disease (human)
R01HL-18805-04 0004 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Clinical follow-up and therapy (human)
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
** R01HL-18984-01 P50 effect on exercise limit in stable angina (human)
** R01HL-19044-03 Effect of drugs on development of cardiac failure (cats)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
P01HL-19259-03 0004 Digoxin-specific antibody in human therapy - Digitalis-specific antibodies pharmacological studies (human, dogs, sheep)
R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
** R01HL-19937-02 Vasodilators in experimental myocardial infarction (dogs)
R01HL-20080-02 Surgically induced myocardial edema (dogs)
R01HL-20199-02 Drug-induced alterations in infarct size in the rat
R01HL-20238-02 Prospective bundle branch block study (human)
R01HL-20394-03 Complement activation by heart subcellular membranes (human, dog)
M P01HL-20552-02 The development and regression of cardiac hypertrophy
** P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
P01HL-20552-02 0003 The development and regression of cardiac hypertrophy - Muscle mechanics of the hypertrophied left ventricle (rats)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood flow in hypertension (rats)
R01HL-21052-01 Evaluation of a digitalis therapy advisor
R23HL-21151-02 Ischemic myocardium--Delivery of blood flow and drugs (dogs)
R23HL-21434-02 Intrinsic control of coronary blood flow by chemicals (guinea pigs)
M R01HL-21684-02 Radionuclide infarct sizing and therapy evaluation
R01HL-21684-02 0001 Radionuclide infarct sizing and therapy evaluation - Evaluating preservation of ischemic myocardium by radioisotope methods (dog)
R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)
R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase
** R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)
R01HL-22522-01 Cardioselectivity of beta-adrenoceptor antagonists
** R01HL-22750-01 Digoxin in heart failure with sinus rhythm (human)
** R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
R01HL-23071-01 Electrophysiology of lethal arrhythmias (dog, human)
** R01HL-23653-01 Protection of the ischemic myocardium (dogs)
R01HL-23970-01 Mechanisms and control of sudden cardiac death (human, dog)
R01HL-23980-01 Effects of digoxin therapy in newborn and adult sheep
** N01HV-52901-06 Aspirin-myocardial infarction study
N01HV-52941-04 Center for aspirin-myocardial infarction study (human)
N01HV-62960-00 Techniques to protect ischemic myocardium and minimize infant size (human)
** N01HV-72940-02 Therapy to protect ischemic myocardium (human)
N01HV-72941-02 Therapy to protect ischemic myocardium--Clinical tests
** N01HV-72948-03 Coordinating center for propranolol heart trial (human)
** N01HV-72949-03 ECG center for proprancolo heart trial
** N01HV-72950-02 Central laboratory for propranolol heart trial
** N01HV-72951-03 Clinical center for propranolol heart trial (human)
** N01HV-72952-02 Clinical center for propranolol heart trial (huamn)
** N01HV-72954-06 Clinical center for propranolol heart trial (human)
** N01HV-72955-02 Clinical center for propranolol heart trial (human)
** N01HV-72956-02 Clinical center for propranolol heart trial (human)
** N01HV-72957-02 Clinical center for propranolol heart trial (human)
** N01HV-72958-02 Clinical center for propranolol heart trail (human)
** N01HV-72959-04 Clinical center for propranolol heart trial (human)
** N01HV-72960-02 Clinical center propranolol heart trial (human)
** N01HV-72963-02 Clinical center for propranolol heart trial (human)
** N01HV-72964-02 Clinical center for propranolol heart trial (human)
** N01HV-72965-02 Clinical center for propranolol heart trial
** N01HV-72966-03 Clinical center for propranolol heart trial
** N01HV-72967-02 Clinical center for propranolol heart trial (human)
** N01HV-72968-03 Clinical center for propranolol heart trial
** N01HV-72969-02 Clinical center for propranolol heart trial (human)
** N01HV-72970-04 Clinical center for propranolol heart trial (human)
** N01HV-82900-03 Clinical center for propranolol heart trial (human)
** N01HV-82901-02 Clinical center for propranolol heart trial (human)
** N01HV-82902-02 Clinical center for propranolol heart trial (human)
** N01HV-82903-02 Clinical center for propranolol heart trial (human)
** N01HV-82904-02 Clinical center for propranolol heart trial (human)
** N01HV-82905-02 Clinical center for propranolol trial (human)
** N01HV-82906-02 Clinical center for propranolol heart trial (human)
** N01HV-82907-02 Clinical center for propranolol heart trial (human)
** N01HV-82908-02 Clinical center for propranolol heart trial (human)
** N01HV-82909-02 Clinical center for propranolol heart trial (human)
** N01HV-82910-00 Clinical center for propranolol heart trial (human)

HEART DISORDERS CONGENITAL

SEE CONGENITAL ABNORMALITIES, HEART DEFECTS

HEART DISORDERS DIAGNOSIS (INCL EXAMS)*

SEE ALSO HEART VISUALIZATION*
SEE ALSO HEART VISUALIZATION, CINEANGIOCARDIOGRAPHY*
SEE ALSO HEART VISUALIZATION, EPICARDIAL MAPPING
SEE ALSO HEART VISUALIZATION, HEART SCANNING*
R01HL-03180-21 Relation of lymphatics to cardiopulmonary function (dogs)
M P01HL-04664-18 Cardiovascular and lung dynamics
** P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
** P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
** P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
** P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
** P01HL-04664-18 0011 Cardiovascular and lung dynamics - Detection of abnormal segments of the human ventricle by measure of asynergy
P01HL-04664-18 0012 Cardiovascular and lung dynamics - Quantitative single plane left ventricular angiography (human)
P01HL-04664-18 0013 Cardiovascular and lung dynamics - Ventricular function in coronary disease using NTG and ventriculograms (human)
P01HL-04664-18 0014 Cardiovascular and lung dynamics - Clinical application of computer analysis of ventricular wall motion
** P01HL-04664-18 0015 Cardiovascular and lung dynamics - Computer system for the cardiovascular laboratory
** R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
R01HL-05694-20 Functional pathology of cardiovascular disease (human)
** P01HL-06285-18 0164 Cardiovascular-respiratory physiology and biochemistry - CPK MB isoenzyme concentration to quantify infarct size (human, animals)
M P01HL-06308-18 Mechanisms and therapy of circulatory disease
P01HL-06308-18 0010 Mechanisms and therapy of circulatory disease - Ventricular arrhythmias during exercise to CHD and myocardial ischemia (human)
P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
** P01HL-06308-18 0012 Mechanisms and therapy of circulatory disease - Echocardiographic evaluation of hemodynamics of arrhythmia (human)
** P01HL-06308-18 0042 Mechanisms and therapy of circulatory disease - Echocardiographic assessment of arrhythmias--Myocardial tissue type (human, dogs)
** P01HL-06308-18 0043 Mechanisms and therapy of circulatory disease - Exercise and echocardiographic examining techniques (human)
** P01HL-06308-18 0044 Mechanisms and therapy of circulatory disease - Echocardiography to determine site of ectopic impulse formation (human, dogs)
P01HL-06312-17 0013 Surgical cardiology - Aortocoronary vein bypass grafting (human)
P01HL-06312-17 0016 Surgical cardiology - Effect of hydralazine on infarct size following coronary occlusion (human)
P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
M P01HL-07293-17 Non-invasive cardiovascular measurements
** P01HL-07293-17 0041 Non-invasive cardiovascular measurements - Ventricular volumes and dimensions (human)
** P01HL-07293-17 0042 Non-invasive cardiovascular measurements - Ventricular imaging software (human)
** P01HL-07293-17 0043 Non-invasive cardiovascular measurements - ECHO-Doppler instrumentation for cardiac measurements (human)
P01HL-07293-17 0044 Non-invasive cardiovascular measurements - Cardiac duplex scanner
** P01HL-07293-17 0045 Non-invasive cardiovascular measurements - Cardiac scanner transducer position locating systems (human)
P01HL-07293-17 0046 Non-invasive cardiovascular measurements - Cardiac scanner signal processors
** P01HL-07293-17 0047 Non-invasive cardiovascular measurements - Cardiac scanner system software
P01HL-07293-17 0048 Non-invasive cardiovascular measurements - Cardiac scanner recording and display systems component
P01HL-07293-17 0051 Non-invasive cardiovascular measurements - Physiologic evaluation of duplex scanner (dogs)
P01HL-07293-17 0052 Non-invasive cardiovascular measurements - Clinical evaluation of the duplex scanner (human)
P01HL-07293-17 0053 Non-invasive cardiovascular measurements - Clinical evaluation of cardiac dimensions using the duplex scanner (human)
** P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
R01HL-07605-16 Congenital heart disease research program (human, dogs)
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
R01HL-09315-15 Coronary insufficiency and myocardial revascularization (human, dogs)
R01HL-09831-12 Effect of resistivity variations on electrocardiogram (human)
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
** P01HL-10342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
R01HL-10417-12 Multiple systems in electrocardiography (human)
** P01HL-10436-13 0016 A multidisciplinary study of congenital heart disease - Genetic studies of congenital heart disease (human)
M P01HL-11310-12 Mechanisms of cardiovascular disease
P01HL-11310-12 0055 Mechanisms of cardiovascular disease - Ventricular pressure-volume after intracardiac surgery (human)
P01HL-11310-12 0056 Mechanisms of cardiovascular disease - Cardiac output response to blood pressure reduction in infants (human)
P01HL-11310-12 0071 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial flutter (human)
P01HL-11310-12 0072 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial tachycardia with block (human)
P01HL-11310-12 0073 Mechanisms of cardiovascular disease - Electrophysiological study of atrial fibrillation (human)
** P01HL-11310-12 0091 Mechanisms of cardiovascular disease - Noninvasive techniques in cardiovascular diagnosis (human)
** P01HL-11310-12 9001 Mechanisms of cardiovascular disease - Core support-hospital beds
** P01HL-11310-12 9002 Mechanisms of cardiovascular disease - Core support-centralized electronic laboratory
M P01HL-12373-10 Cardiopulmonary physiology and pathophysiology
P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Determinants of performance of the whole heart (dogs)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
** R01HL-12611-10 Basic and clinical studies of the ST-T deflection (human, dogs)
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction at the sinoatrial node (human)
P01HL-12738-10 0117 Physiologic pharmacology and its clinical applications - Ventricular arrhythmias in ischemic heart disease (human)
P01HL-12738-10 0127 Physiologic pharmacology and its clinical applications - Cardiac electrical activity (human, animals)
** R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
M P01HL-13108-09 Clinical heart transplantation
** P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
** P01HL-13108-09 0002 Clinical heart transplantation - Preoperative immunologic studies of cardiac recipients
** P01HL-13108-09 0003 Clinical heart transplantation - Endomyocardial biopsy pathology
** P01HL-13108-09 0009 Clinical heart transplantation - B cell alloantigens in cardiac allograft compatibility (human)
** P01HL-13108-09 0010 Clinical heart transplantation - Serum factors inhibiting lymphocyte responses in MLC (human, bush babies)
** P01HL-13108-09 0012 Clinical heart transplantation - Human T cell sheep erythrocyte receptors
** P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
M P01HL-13737-07 Assisted circulation
** P01HL-13737-07 0007 Assisted circulation - Determination of cardiac status by use of balloon pump (dogs)
** P01HL-13737-07 0038 Assisted circulation - Distinguishing the ischemic ventricle from scarred ventricle by balloon pumping
** P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
P01HL-14388-07 0217 Regulation of the circulation in pathological states - Fluid mechanics of aortic flow (dogs, human)
R01HL-14571-05 Myocardial preservation and coronary reperfusion (baboons, dogs)
R01HL-14651-05 Mechanical behavior of left ventricle (dogs, rats)
R01HL-14785-07 Ultrasonic scattering for tissue characterization (dogs, cattle, human)
** R01HL-15016-07 New concepts in cardiac ultrasound technology (human)
** P01HL-15194-07 0017 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation and effects of arteriographic lesions on flow (human)
** P01HL-15194-07 0025 Pathophysiology of cardiopulmonary dysfunction - Myoglobinemia as an index of myocardial ischemia and infarction
** R01HL-15983-04 Regional myocardial blood flow (dogs)
** R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
R01HL-16260-04 Development of clinical cine ultrasound cardiography
R01HL-16292-05 0009 Surgery and non-obstructive coronary insufficiency - Exercise and supply-demand balance (human)
R01HL-16292-05 0020 Surgery and non-obstructive coronary insufficiency - Limitation of transthoracic ECG in detecting subendocardial ischemia (dogs)
R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
R01HL-16908-04 Myocardial function, risk factors and future CHD (men)
R01HL-16909-04 Myocardial function, risk factors and future CHD (men)
** P60HL-17269-04 0007 National heart and blood vessel research and demonstration center - Correlative studies of experimental myocardial ischemia (dog)
** P60HL-17269-04 0027 National heart and blood vessel research and demonstration center - Non-invasive evaluation of cardiac function--Ischemic heart disease (human, dog)
R01HL-17532-04 Infarct size--ECG, angio, path, correlation in dogs
** P50HL-17646-04 0001 Study of ischemic heart disease - Core clinical investigation unit
** P50HL-17646-04 0002 Study of ischemic heart disease - Core data management
** P50HL-17646-04 0010 Study of ischemic heart disease - Compliance in ischemic myocardium--Altered cardiac performance (human, dogs)
M P50HL-17648-04 Study of ischemic heart disease
** P50HL-17648-04 0004 Study of ischemic heart disease - Radionuclide imaging studies (human, pig)
M P50HL-17651-04 Ischemic heart disease specialized center of research
** P50HL-17651-04 0023 Ischemic heart disease specialized center of research - Development of multipurpose catheter for monitoring and electronic pacing
** P50HL-17651-04 0039 Ischemic heart disease specialized center of research - Measurement and prediction of infarct size (human, dog)
** P50HL-17651-04 0048 Ischemic heart disease specialized center of research - Non-invasive detection of ischemic heart disease
M P50HL-17655-04 Study of ischemic heart disease
** P50HL-17655-04 0011 Study of ischemic heart disease - Care facility Cardiovascular nuclear medicine (human, dog)
** P50HL-17665-04 0008 Study of ischemic heart disease - Care laboratory-CPK isoenzyme measurement and myocardial necrosis evaluation
** P50HL-17665-04 0028 Study of ischemic heart disease - Pathologic and biochemical studies of ischemic myocardium (human, dog)
P50HL-17665-04 0030 Study of ischemic heart disease - Data management
M P50HL-17667-04 Study of ischemic heart disease
** P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
P50HL-17667-04 0042 Study of ischemic heart disease - Core--Central instrumentation and software
M P50HL-17669-04 Ischemic heart disease center (SCOR)
** P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
M P50HL-17670-04 Study of ischemic heart disease
P50HL-17670-04 0001 Study of ischemic heart disease - Data management
** P50HL-17670-04 0017 Study of ischemic heart disease - Core enzymology laboratory (human)
M P50HL-17682-04 Study of ischemic heart disease
P50HL-17682-04 0003 Study of ischemic heart disease - Effects of myocardial revascularization in man
** P50HL-17682-04 0005 Study of ischemic heart disease - Regional myocardial perfusion deficits and segmental contraction disorders in man
** P50HL-17682-04 0008 Study of ischemic heart disease - Clinical core unit
** P50HL-17682-04 0010 Study of ischemic heart disease - Core clinical enzyme laboratory (human, mice, dogs, rats)
** P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
** R01HL-17931-04 Normalized body surface potential maps (children)
M R01HL-17993-04 Ventricular dynamics from surgically inserted markers
R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
** R01HL-18454-03 Maximal exercise testing in hyperlipidemic children
** R01HL-18567-03 A routine diagnostic test for minimal heart damage (human, rat)
** P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-18744-03 Preparation of radiopharmaceuticals from drug analogs
** R01HL-18769-04 Studies in survivors of lethal arrhythmias (human)
** R01HL-18783-04 Detection and control of ventricular premature beats (human)
** R01HL-18794-04 Prospective studies of conduction disease (human)
R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
M R01HL-18805-04 Sudden cardiac death and the onset of myocardial infarction
** R01HL-18805-04 0003 Sudden cardiac death and the onset of myocardial infarction - Prediction from clinical and laboratory assessments (human)
** R01HL-18805-04 0005 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Radionuclide studies (human)
M R01HL-18808-04 Prediction and prevention of sudden cardiac death
R01HL-18968-03 Computer technology for transaxial tomography
** R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
** R01HL-19135-04 Heterogeneity of regional myocardial blood flow (dogs)
R01HL-19246-03 Regression of cardiac hypertrophy--Myocardial and renal (human)
M P01HL-19259-03 Digoxin-specific antibody in human therapy
P01HL-19259-03 0001 Digoxin-specific antibody in human therapy - Primary structure of monoclonal antibodies (rabbits)
P01HL-19259-03 0003 Digoxin-specific antibody in human therapy - Synthesis of digoxin-specific antibody in continuous cell culture (human, sheep)
** R01HL-19370-03 Coronary capillary exchange--The effects of ischemia (dogs, sheep)
M R01HL-19451-03 Functional characteristics of the left heart
** R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
** R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
** R01HL-19768-02 Recording and analysis of low levels cardiac signals (human, dogs)
R01HL-19961-03 Management of hemosiderosis in thalassemia (children, adults)
R01HL-20000-03 Iron overload in homozygous beta thalassemia (human)
** R01HL-20238-02 Prospective bundle branch block study (human)
** R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
R01HL-20374-03 Myocardial function-Risk factors and future CHD (human)
R01HL-20597-02 Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits)
** R01HL-20645-01 Etiology of myocardial infarction (human)
** R01HL-20749-01 Developing heart-Biophysical aspects (sheep)
R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
R01HL-20895-03 0002 Cineangiographic studies of cardiovascular system - Coronary disease--Regional myocardial blood flow (human, dog)
** R01HL-20895-03 0005 Cineangiographic studies of cardiovascular system - Computerized axial tomography--Cardiac wall motion and infarction (dogs)
** R23HL-21197-02 Right ventricular contraction and relaxation (dogs)
** R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
R01HL-21283-02 Simulation studies of the ECG in acute ischemia (and human)
R23HL-21292-01 Human ventricular activation--Patterns and mechanisms (human)
** R23HL-21347-02 Accessory pathways and supraventricular tachycardia
R01HL-21425-02 Servo-simulated compliance changes--A reversible MI (dogs)
R01HL-21654-01 Autonomic determinants of arrhythmia due to ischemia (cats)
** R01HL-21706-02 Nuclear magnetic resonance and myocardial ischemia (rats)
** R01HL-21820-01 Regulatory role of myosin in cardiac hypertrophy (dogs)
** R01HL-21846-01 Cardiac failure detection by radiography and optics (monkeys)
** R01HL-21985-01 Videoarteriography in congenital heart disease
** R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
** R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)
R01HL-22321-01 Cardiac output from the pneumocardiagram (dogs)
R01HL-22326-01 Noninvasive measurement of cardiac output (dogs)
R01HL-22378-01 Psyco-somatic predictors of CHD in adolescence (human)
** R01HL-22750-01 Digoxin in heart failure with sinus rhythm (human)
R01HL-22801-01 Analysis of coronary artery behavior (dogs)
R01HL-22809-01 Coronary-prone behavior and cardiovascular reactivity (human)
** R01HL-22952-01 Validation of quantitative coronary arteriography (dogs)
R01HL-22982-01 Multicenter postcoronary risk stratification program (human)
N01HV-42933-09 Multiple risk factors in coronary heart disease (human)
N01HV-62960-00 Techniques to protect ischemic myocardium and minimize infant size (human)

HEART DISORDERS DIAGNOSIS, BALLISTOCARDIOGRAPHY*

** R01HL-16908-04 Myocardial function, risk factors and future CHD (men)
** R01HL-16909-04 Myocardial function, risk factors and future CHD (men)
** R01HL-20374-03 Myocardial function--Risk factors and future CHD (human)

HEART DISORDERS DIAGNOSIS, ELECTROCARDIOGRAPHY*

SEE ALSO CARDIOVASCULAR DISORDERS DIAGNOSIS, EXERCISE STRESS TESTING*
SEE ALSO HEART DISORDERS DIAGNOSIS, VECTORCARDIOGRAPHY*

** R01HL-01486-23 Quantitative study of T-wave mechanisms (human, rabbits, dogs, chickens)
P01HL-04664-18 0015 Cardiovascular and lung dynamics - Computer system for the cardiovascular laboratory
** P01HL-06308-18 0010 Mechanisms and therapy of circulatory disease - Ventricular arrhythmias during exercise to CHD and myocardial ischemia (human)
R01HL-08892-10 Cooperative study of drugs and coronary heart disease
** R01HL-09831-12 Effect of resistivity variations on electrocardiogram (human)
** R01HL-10417-12 Multiple systems in electrocardiography (human)
P01HL-10539-12 0064 Pathophysiology of circulation - Exercise physiology and pathophysiology (human)
M P01HL-11307-12 Biophysical studies in pediatric cardiology

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-11307-12 0002 Biophysical studies in pediatric cardiology - Cardiac extracellular electrophysiology (human, dog, chimpanzee)
P01HL-11307-12 9001 Biophysical studies in pediatric cardiology - Core support--computer science
** P01HL-11307-12 9002 Biophysical studies in pediatric cardiology - Biomedical engineering
** P01HL-11310-12 0075 Mechanisms of cardiovascular disease - Bipolar atrial electrograms from Bachmann's bundle (dogs)
** P01HL-11310-12 0092 Mechanisms of cardiovascular disease - Exercise electrophysiology (human)
** P01HL-11310-12 0093 Mechanisms of cardiovascular disease - Multiple dipole electrocardiogram project (human, dogs)
P01HL-11310-12 9002 Mechanisms of cardiovascular disease - Core support-centralized electronic laboratory
** R01HL-12611-10 Basic and clinical studies of the ST-T deflection (human, dogs)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
P01HL-12738-10 0107 Physiologic pharmacology and its clinical applications - Blood superfused cardiac fibers (dogs)
P01HL-12738-10 0124 Physiologic pharmacology and its clinical applications - Counterpulsation on myocardial ischemia measured by carbon dioxide tension (dogs)
** P01HL-12738-10 0128 Physiologic pharmacology and its clinical applications - Recording electrograms from specialized cardiac tissues (human, dogs)
M P01HL-13480-09 Cardiac electrophysiology
** P01HL-13480-09 0017 Cardiac electrophysiology - Body surface potential mapping (human, dogs)
P01HL-13480-09 0026 Cardiac electrophysiology - Neural influences on cardiac electrophysiology and contraction (dog, cat)
** P01HL-13480-09 0028 Cardiac electrophysiology - Stress electrocardiography (human, dogs)
** P01HL-13480-09 0032 Cardiac electrophysiology - Cardiac activation sequence (dogs)
P01HL-13737-07 0013 Assisted circulation - Incorporation of sensors (human, dogs)
P50HL-14214-07 0030 Newborn lung center for hyaline membrane disease - Effects of ductal patency--Impedance cardiography and echocardiography (human)
** R01HL-14688-05 Myocardial assessment by inverse electrocardiography (monkey)
** R01HL-15047-06 Oigital computer analysis of the electrocardiogram (human)
** P01HL-15265-05 0011 Program on surgical control of the hyperlipidemias - Central electrocardiography laboratory (human)
** R01HL-16292-05 0020 Surgery and non-obstructive coronary insufficiency - Limitation of transthoracic ECG in detecting subendocardial ischemia (dogs)
** R01HL-16901-05 Multipolar linkage between heart geometry and surface (human, dogs)
P60HL-17269-04 0027 National heart and blood vessel research and demonstration center - Non-invasive evaluation of cardiac function--Ischemic heart disease (human, dog)
** R01HL-17532-04 Infarct size--ECG, angio, path, correlation in dogs
R01HL-17604-03 Wearable blood pressure and ECG recording system
P50HL-17646-04 0001 Study of ischemic heart disease - Core clinical investigation unit
** P50HL-17648-04 0016 Study of ischemic heart disease - Intraventricular conduction--Effect of pacing on conduction and automaticity
** P50HL-17648-04 0018 Study of ischemic heart disease - Myocardial damage--Infarction vectors recalled by premature atrial stimulation
** P50HL-17648-04 0033 Study of ischemic heart disease - Data management--Electrocardiographic analysis system
P50HL-17651-04 0022 Ischemic heart disease specialized center of research - Electrophysiology--Mechanism and pharmacology of arrhythmias (human, dog)
P50HL-17651-04 0023 Ischemic heart disease specialized center of research - Development of multipurpose catheter for monitoring and electronic pacing
** P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
** P50HL-17667-04 0029 Study of ischemic heart disease - Computer diagnosis of cardiac arrhythmias after open heart surgery (human)
P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
** P50HL-17669-04 0013 Ischemic heart disease center (SCOR) - Exercise in patients with ischemic heart disease
** P50HL-17670-04 0005 Study of ischemic heart disease - Quantitative assessment of the vectorcardiogram (human)
** P50HL-17670-04 0018 Study of ischemic heart disease - Core electrocardiogram laboratory (human)
** R01HL-17931-04 Normalized body surface potential maps (children)
** R01HL-18144-03 Preprocessor system for cardiograms (human)
R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
R01HL-18517-03 Intrinsic innervation of the heart (dogs)
R01HL-18683-03 Left ventricle function in aortic regurgitation (human)
R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
** R01HL-18850-03 Classification code for Frank orthogonal ECG
R01HL-19216-03 Characterization of cardiac pacemaker activity (cat, dog, rabbit)
** R01HL-19768-02 Recording and analysis of low levels cardiac signals (human, dogs)
** R01HL-20273-02 Cardiac fiber direction and the QRS complex (dogs)
** R01HL-20597-02 Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits)
** R01HL-21283-02 Simulation studies of the ECG in acute ischemia (and human)
** R23HL-21292-01 Human ventricular activation--Patterns and mechanisms (human)
R01HL-21527-01 Prospective study of bundle branch block (human)
** R01HL-21710-01 Electrocardiographic methods of quantifying infarct size (human, dogs)
** R01HL-21750-02 Electrocardiographic quantification of infarct size (dogs, human)
** N01HV-42911-07 ECG center for prevention of coronary heart disease (human)
** N01HV-52941-04 Center for aspirin-myocardial infarction study (human)
** N01HV-72949-03 ECG center for proprancolo heart trial

HEART DISORDERS DIAGNOSIS, ELECTROCARDIOGRAPHY FREQUENCIES*

P50HL-17648-04 0018 Study of ischemic heart disease - Myocardial damage--Infarction vectors recalled by premature atrial stimulation
P50HL-17648-04 0021 Study of ischemic heart disease - Biventricular contractile responses to acute myocardial infarction (mammals)

HEART DISORDERS DIAGNOSIS, ELECTROCARDIOGRAPHY MONITOR*

** R01HL-07575-15 Analysis of time-coherent cardiovascular data
** P01HL-11310-12 0077 Mechanisms of cardiovascular disease - Abnormalities of rhythm and conduction following heart surgery (human)
R01HL-15790-06 Follow-up study of acute coronary heart attacks (human)
** R01HL-20632-02 An optimal fetal heart monitor (human)

HEART DISORDERS DIAGNOSIS, ELECTROCARDIOGRAPHY MONITOR, ELECTROCARDIOCORDER*

R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
P50HL-17648-04 0033 Study of ischemic heart disease - Oata management--Electrocardiographic analysis system
P50HL-17670-04 0012 Study of ischemic heart disease - Epidemiology of sudden death (human)
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-18783-04 Oetection and control of ventricular premature beats (human)
** R01HL-18808-04 0001 Prediction and prevention of sudden cardiac death - Prognostic significance of premature ventricular contractions (human)
** R01HL-18808-04 0003 Prediction and prevention of sudden cardiac death - Technical support (computer)

HEART DISORDERS DIAGNOSIS, FICK METHOD*

R01HL-18683-03 Left ventricle function in aortic regurgitation (human)

HEART DISORDERS DIAGNOSIS, HEART CATHETERIZATION*

P01HL-04664-18 0015 Cardiovascular and lung dynamics - Computer system for the cardiovascular laboratory
P01HL-06285-18 0157 Cardiovascular-respiratory physiology and biochemistry - Left ventricle outflow impedance analysis (human)
P01HL-06312-17 0015 Surgical cardiology - Internal mammary artery versus saphenous vein for coronary artery bypass (human)
P01HL-11310-12 0077 Mechanisms of cardiovascular disease - Abnormalities of rhythm and conduction following heart surgery (human)
P01HL-11310-12 9002 Mechanisms of cardiovascular disease - Core support-centralized electronic laboratory
** R01HL-12307-08 Non-surgical treatment of congenital heart disease (human, dogs)
** P01HL-12373-10 0020 Cardiopulmonary physiology and pathophysiology - Hospitalization and patient care
P01HL-15194-07 0001 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, venous drainage and collateral flow (human, dogs)
R01HL-16260-04 Development of clinical cine ultrasound cardiography
** P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Oynamics of ischemic heart disease (human, dog)
P50HL-17651-04 0002 Ischemic heart disease specialized center of research - Reduction of myocardial ishemic injury by pharmacologic agents (human, dog)
** P50HL-17651-04 0023 Ischemic heart disease specialized center of research - Oevelopment of multipurpose catheter for monitoring and electronic pacing
P50HL-17651-04 0037 Ischemic heart disease specialized center of research - Measurement of coronary venous outflow by thermodilution (human)
P50HL-17651-04 0048 Ischemic heart disease specialized center of research - Non-invasive detection of ischemic heart disease
** P50HL-17667-04 0039 Study of ischemic heart disease - Core human investigative laboratories
R01HL-18683-03 Left ventricle function in aortic regurgitation (human)
R01HL-19537-03 Detection of myocardial injury with ultrasound (dogs)
R01HL-19567-03 Impact of emotion on coronary arteries (human)
R01HL-19768-02 Recording and analysis of low levels cardiac signals (human, dogs)
R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
R01HL-21985-01 Videoroentgenography in congenital heart disease
R23HL-22787-01 Cardiac volume by biplane echocardiography (human)

HEART DISORDERS DIAGNOSIS, HEART SOUND MEASUREMENTS*

R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)

HEART DISORDERS DIAGNOSIS, MYOCARDIAL INFARCT SIZING

SEE ALSO HEART VISUALIZATION*
P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
P01HL-06308-18 0042 Mechanisms and therapy of circulatory disease - Echocardiographic assessment of arrhythmias--Myocardial tissue type (human, dogs)
** P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
** R01HL-14571-05 Myocardial preservation and coronary reperfusion (baboons, dogs)
** R01HL-17532-04 Infarct size--ECG, angio, path, correlation in dogs
M P50HL-17646-04 Study of ischemic heart disease
P50HL-17646-04 0002 Study of ischemic heart disease - Core data management
P50HL-17646-04 0003 Study of ischemic heart disease - Core pathology facility (human, dogs)
P50HL-17646-04 0005 Study of ischemic heart disease - Biochemical markers and mediators of myocardial ischemic injury
** P50HL-17646-04 0006 Study of ischemic heart disease - Mathematical models for predicting infarct size using CPK and other markers
** P50HL-17646-04 0007 Study of ischemic heart disease - Prediction of myocardial ischemic injury by analysis of plasma CPK isoenzymes
P50HL-17646-04 0009 Study of ischemic heart disease - Regional metabolic derangements indicating ischemia (rabbit, dog, human)
P50HL-17665-04 0003 Study of ischemic heart disease - Quantitation of injury--Acute myocardial infarction complicated by shock (human)
** P50HL-17665-04 0011 Study of ischemic heart disease - Development of new methods for the determination of infarct size (dog, human)
** P50HL-17665-04 0032 Study of ischemic heart disease - Myocardial infarct sizing--Immunoassay for cardiac myosin light chains (dogs)
P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
** P50HL-17667-04 0043 Study of ischemic heart disease - Quantitation of myocardial infarct size by serial enzyme measurements (human)
P50HL-17667-04 0045 Study of ischemic heart disease - Pathology of myocardial ischemic necrosis (human)
P50HL-17669-04 0001 Ischemic heart disease center (SCOR) - Radioimmunoassays for CPK isoenzyme and myoglobin (human, dog)
** P50HL-17669-04 0002 Ischemic heart disease center (SCOR) - Myocardial infarction sizing by radioimmunoassay of cardiac myosin (dogs)
** P50HL-17669-04 0009 Ischemic heart disease center (SCOR) - Infarct volume--99Tc stannous pyrophosphate myocardial scintigrams (dogs, human)
P50HL-17669-04 0022 Ischemic heart disease center (SCOR) - Pathological studies of human and experimental ischemic heart disease
** P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
** P50HL-17670-04 0021 Study of ischemic heart disease - Enzymatic evaluation of acute myocardial infarction (dogs)
P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
P50HL-17682-04 0012 Study of ischemic heart disease - Pathology core laboratory (human)
R01HL-17809-04 Effects of exercise on the coronary vasculature (rat, dog)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-20648-01 Physical factors and coronary flow (dogs)
R01HL-21684-02 0001 Radionuclide infarct sizing and therapy evaluation - Evaluating preservation of ischemic myocardium by radioisotope methods (dog)
R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)
R01HL-21684-02 0003 Radionuclide infarct sizing and therapy evaluation - Core pathology laboratory (dogs, human)
R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
** R01HL-21697-01 Myocardium infarct sizing by 82Rb emission tomography (dogs, human)
** R01HL-21707-01 Quantification of infarct size by emission tomography (human, dogs)
** R01HL-21710-01 Electrocardiographic methods of quantifying infarct size (human, dogs)
** R01HL-21719-01 Computed cardiac tomography in infarct sizing (dogs, human)
R01HL-21750-02 Electrocardiographic quantification of infarct size (dogs, human)
R01HL-21751-02 Thallium and antimyosin in ischemia and infarction
R01HL-21793-02 Functional infarct size by gated radioangiography (human, dogs)
R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)
R01HL-22281-01 Microprobe analysis and metabolite levels of ischemic mycardium (dogs)
R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)

HEART DISORDERS DIAGNOSIS, PNEUMOCARDIOGRAPHY*

** R01HL-22321-01 Cardiac output from the pneumocardiogram (dogs)

HEART DISORDERS DIAGNOSIS, POLARCARDIOGRAPHY*

** R01HL-21750-02 Electrocardiographic quantification of infarct size (dogs, human)

HEART DISORDERS DIAGNOSIS, VECTORCARDIOGRAPHY*

SEE ALSO HEART DISORDERS DIAGNOSIS, POLARCARDIOGRAPHY*

** R01HL-07575-15 Analysis of time-coherent cardiovascular data
** P01HL-07896-15 0062 Environmental biomedical research program - Vectorcardiograms during diving (human, dogs)
P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
P01HL-11310-12 0093 Mechanisms of cardiovascular disease - Multiple dipole electrocardiogram project (human, dogs)
** R01HL-16403-05 Prognostication by computer--Analyzed vectorcardiogram (human)
P50HL-17669-04 0013 Ischemic heart disease center (SCOR) - Exercise in patients with ischemic heart disease
** P50HL-17670-04 0005 Study of ischemic heart disease - Quantitative assessment of the vectorcardiogram (human)
P50HL-17670-04 0018 Study of ischemic heart disease - Core electrocardiogram laboratory (human)
R01HL-18850-03 Classification code for Frank orthogonal ECG
** R23HL-21292-01 Human ventricular activation--Patterns and mechanisms (human)
** R01HL-21750-02 Electrocardiographic quantification of infarct size (dogs, human)

HEART DISORDERS DIAGNOSIS, VECTOR MAGNETOCARDIOGRAPHY*

** R01HL-09831-12 Effect of resistivity variations on electrocardiogram (human)
R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)

HEART ENLARGEMENT

SEE HEART DISORDERS, HEART ENLARGEMENT

HEART EXAMINATIONS

SEE HEART DISORDERS DIAGNOSIS (INCL EXAMS)*

HEART FAILURE

SEE HEART DISORDERS, HEART FAILURE

HEART FAILURE, CONGESTIVE

SEE HEART DISORDERS, HEART FAILURE, CONGESTIVE

HEART FUNCTION

SEE ALSO HEART DISORDERS DIAGNOSIS, BALLISTOCARDIOGRAPHY*
SEE ALSO HEART DISORDERS DIAGNOSIS, FICK METHOD*
SEE ALSO HEART DISORDERS DIAGNOSIS, PNEUMOCARDIOGRAPHY*

R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
R01HL-01486-23 Quantitative study of T wave mechanisms (human, rabbits, dogs, chickens)
** R01HL-01755-25 Fetal and neonatal cardiovascular function (sheep)
R01HL-03181-21 0020 Hemodynamics as applied to surgical problems - Blood flow measurement--Cardiac output and regional flows (dogs)
R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
M P01HL-04664-18 Cardiovascular and lung dynamics
** P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
** P01HL-04664-18 0013 Cardiovascular and lung dynamics - Ventricular function in coronary disease using NTG and ventriculograms (human)
** R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
** R01HL-05883-18 0006 Reflex control of resistance and capacitance vessels - Cardiopulmonary vagal afferents in the conscious dog
** R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
M P01HL-06285-18 Cardiovascular-respiratory physiology and biochemistry
** P01HL-06285-18 0125 Cardiovascular-respiratory physiology and biochemistry - Myocardial function in the fetal and neonatal lamb
P01HL-06285-18 0131 Cardiovascular-respiratory physiology and biochemistry - Fetal heart development and ventricular outflow obstruction (lambs)
P01HL-06285-18 0133 Cardiovascular-respiratory physiology and biochemistry - Decreased uterine blood flow and fetal development (lambs)
** P01HL-06285-18 0154 Cardiovascular-respiratory physiology and biochemistry - Function and viability of critically ischemic myocardium (dogs)
** P01HL-06285-18 0156 Cardiovascular-respiratory physiology and biochemistry - Myocardial performance following revascularization (human)
** P01HL-06285-18 0158 Cardiovascular-respiratory physiology and biochemistry - Load on myocardial contractility (dogs)
M P01HL-06296-18 Cardiovascular and pulmonary adaptation to stress
** P01HL-06296-18 0003 Cardiovascular and pulmonary adaptation to stress - Human exercise studies (human, dogs)
** P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
M P01HL-06308-18 Mechanisms and therapy of circulatory disease
P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
P01HL-06312-17 0016 Surgical cardiology - Effect of hydralazine on infarct size following coronary occlusion (human)
** P01HL-06312-17 0025 Surgical cardiology - Effect of denervation on arrhythmias and function with coronary occlusion (dogs)
P01HL-06312-17 0030 Surgical cardiology - Total artificial heart (calves)
** P01HL-06312-17 0034 Surgical cardiology - Metabolic factors in cardiac function--Creatine phosphate depletion (animals)
** P01HL-06312-17 0036 Surgical cardiology - Experimental studies of cardiac compliance (dogs)
** P01HL-06312-17 0044 Surgical cardiology - The limits of topical cardiac hypothermia with ice chips (rats)
** P01HL-06312-17 0046 Surgical cardiology - The relationship of prostaglandins to heart disease
P01HL-06312-17 0048 Surgical cardiology - Use of an adjustable pulmonary artery band (dogs)
P01HL-06312-17 0052 Surgical cardiology - Assay of metabolic variables of rat heart
** P01HL-06835-17 0041 Cardiovascular disease - Cardiac performance in rats with renal hypertension
** P01HL-06835-17 0042 Cardiovascular disease - Myocardial hypertrophy due to renal hypertension (rats)
P01HL-06835-17 0044 Cardiovascular disease - Baroreceptors in control of blood pressure during sleep (dogs)
P01HL-06835-17 0057 Cardiovascular disease - Studies on cardiac hypertrophy
** R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
R01HL-07723-15 Reflex control of vascular capacitance in shock
R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
M P01HL-08682-15 Regulation of the cardiovascular system
** P01HL-08682-15 0006 Regulation of the cardiovascular system - Cardiovascular studies of mammalian hibernators (sciuromorpha)
M P01HL-08805-15 Regulation of ventilation and pulmonary circulation
** P01HL-08805-15 0050 Regulation of ventilation and pulmonary circulation - Right ventricular mechanics (dogs)

P01HL-08899-14 0010 Tolerance to respiratory gases in health and disease High oxygen pressure in septic shock (human)
** P01HL-08899-14 0025 Tolerance to respiratory gases in health and disease Effects of oxygen on cardiopulmonary gas transport functions (dogs)
P01HL-08899-14 0064 Tolerance to respiratory gases in health and disease - Narcotic effects of inert gases on functional systems (rats)
R01HL-09315-15 Coronary insufficiency and myocardial revascularization (human, dogs)
R01HL-09474-11 Natural history-congenital heart defects--Joint study (human)
R01HL-09476-10 Natural history, congenital heart defects--Joint study
R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
** R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
R01HL-10330-11 Physiological mechanics of the heart and arteries (dogs, rabbits, horses)
P01HL-10342-13 0026 The integrated function of respiration and circulation - Control of respiration--Characterization of the aortic body (cats)
** P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
M P01HL-10539-12 Pathophysiology of circulation
** P01HL-10539-12 0068 Pathophysiology of circulation - Acute and chronic cardiomyopathies (mice, dogs, hamsters, human)
** P01HL-10539-12 0069 Pathophysiology of circulation - Ventricular compliance and mechanics in intact ventricles (human)
R01HL-10718-10 Natural history of congenital heart defects--Joint study (human)
R01HL-10942-09 Study of genetic hypertension in rats
M P01HL-11310-12 Mechanisms of cardiovascular disease
** P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
P01HL-11310-12 0065 Mechanisms of cardiovascular disease - Algorithms for arterial pressure by automatic vasoactive agents control (human)
P01HL-11310-12 0068 Mechanisms of cardiovascular disease - Pharmacological intervention and myocarcial oxygen consuption (human, dogs)
** P01HL-11310-12 0081 Mechanisms of cardiovascular disease - Analysis of regional left ventricular function (human)
** P01HL-11310-12 0082 Mechanisms of cardiovascular disease - Myocardial function in adult congenital heart disease (human)
** P01HL-11310-12 0084 Mechanisms of cardiovascular disease - Evaluation of cardiac function in chronic renal failure (human)
** P01HL-11310-12 0094 Mechanisms of cardiovascular disease - Physics of pulsatile fluid flow (dogs)
P01HL-11351-12 0002 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ionic exchange (rats, rabbits)
** P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
** P01HL-11351-12 0018 Cellular and molecular mechanisms of myocardial function - Quantitative localization of electrolytes in cardiac tissue
** R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
** R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
M P01HL-12373-10 Cardiopulmonary physiology and pathophysiology
P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Determinants of performance of the whole heart (dogs)
** P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
** P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
P01HL-12373-10 0020 Cardiopulmonary physiology and pathophysiology - Hospitalization and patient care
** R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
R01HL-12542-07 Natural history, congenital heart defects--Joint study (human)
R01HL-12607-10 Dynamics of pulsatile blood flow (human, dogs, rats)
R01HL-12611-10 Basic and clinical studies of the ST-T deflection (human, dogs)
R01HL-12690-09 Systemic and local vascular adjustment in shock (monkeys, cats)
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
M P01HL-12738-10 Physiologic pharmacology and its clinical applications
P01HL-12738-10 0069 Physiologic pharmacology and its clinical applications - Blood rheology in coronary heart disease (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-12738-10 0071 Physiologic pharmacology and its clinical applications - IABP patient management in ventricular power failure (human)
** P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
** P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
P01HL-12738-10 0133 Physiologic pharmacology and its clinical applications - Pharmacologic antagonism of beta-adrenergic blockade (dogs)
** P01HL-12738-10 0134 Physiologic pharmacology and its clinical applications - Adenylate cyclase and cAMP phosphodiesterase in cardiac development (dogs)
P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications - Myocardial cells in tissue culture (rats, chick embryo)
** R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
** P01HL-13108-09 0008 Clinical heart transplantation - Physiology and pharmacology of the transplanted human heart
** R01HL-13233-08 Cardiorespiratory control in exercise (human)
** R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
R01HL-13426-09 Left ventricular bypass for myocardial infarction (cattle, human)
R01HL-13454-08 Behavioral stress and cardiomyopathy (monkeys, cats)
P01HL-13480-09 0042 Cardiac electrophysiology - Computer modeling of arrhythmias
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
** R01HL-13639-07 Factors altering the cnurse of myocardial dysfunction (cats)
** P01HL-13737-07 0007 Assisted circulation - Oetermination of cardiac status by use of balloon pump (dogs)
P01HL-13737-07 0013 Assisted circulation - Incorporation of sensors (human, dogs)
P01HL-13737-07 0027 Assisted circulation - Optimization of cardiac assistance (dogs)
** P01HL-13737-07 0034 Assisted circulation - Phasic aortic flow and cardiac output from phasic pressures (dogs)
P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
R01HL-13920-07 Expanding the role of surgery of atrial dysrhythmias (dogs)
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
P50HL-14164-07 0032 A/S SCOR--Comparative and experimental atherosclerosis - Plasma cholesterol, lesion regression and vascular function (Rhesus monkey)
** P50HL-14164-07 0042 A/S SCOR--Comparative and experimental atherosclerosis - Comparative cardiology laboratory (monkeys)
P50HL-14236-05 0002 Prevention of premature arteriosclerosis - Myocardial blood flow in patients with coronary artherosclerosis
P01HL-14388-07 0214 Regulation of the circulation in pathological states - Oeformation pattern and stress analysis of the left ventricle
P01HL-14388-07 0215 Regulation of the circulation in pathological states - Left ventricle model in pathophysiologic states
P01HL-14388-07 0216 Regulation of the circulation in pathological states - Development and regression of ventricular hypertrophy (cats, rats)
P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
M P01HL-14414-07 Environmental influences on cardiorespiratory and cellular functions
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
** R01HL-14651-05 Mechanical behavior of left ventricle (dogs, rats)
R01HL-14706-07 Fetal hearts in organ culture (mice)
** R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
** R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
** R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
** R01HL-15498-06 Effects of physical training on heart (rats)
R01HL-15622-05 Computer simulation in cardiology (rats, dogs)
** R01HL-15696-06 Mechanism and role of cyclic GMP in heart (animals)
** R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
R01HL-15813-05 Cardiac anoxia--Protective effect of carbohydrate (dogs)
R01HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
** R01HL-16292-05 0002 Surgery and non-obstructive coronary insufficiency - Effects of hypothermia during cardiopulmonary bypass (dogs)
R01HL-16292-05 0009 Surgery and non-obstructive coronary insufficiency - Exercise and supply-demand balance (human)
R01HL-16292-05 0018 Surgery and non-obstructive coronary insufficiency - Unavoidable subendocardial perfusion caused by venting and hypothermia (dogs)
** R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
** R01HL-16420-02 Effect of training-detraining on the rat heart
R01HL-16484-04 Radiographic ventriculometry for coronary heart disease (human)
R01HL-16487-05 Computer controlled two dimensional echocardiography
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
** R01HL-16908-04 Myocardial function, risk factors and future CHO (men)
** R01HL-16909-04 Myocardial function, risk factors and future CHO (men)
R01HL-16935-05 Tissue organization and turnover in the semilunar valve (dogs, rats)
P60HL-17269-04 0024 National heart and blood vessel research and demonstration center - Section of experimental cardiovascular surgery--Core facility
** R01HL-17370-03 Synaptic chemistry and cardioregulation in Limulus
** R01HL-17372-03 Adenine nucleotide maintenance in the ischemic heart (rats)
R01HL-17401-03 Mechanisms in angiotensin induced hypertension (cats, dogs)
R01HL-17503-03 Vascular bubbles in decompression sickness (minipig, dog, goat)
R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
R01HL-17578-04 Exercise performance in children with heart disease
P50HL-17648-04 0012 Study of ischemic heart disease - Retrograde coronary venous perfusion--Acute myocardial ischemia
P50HL-17648-04 0020 Study of ischemic heart disease - Core pathology laboratory--Ischemic heart disease (human, animal)
P50HL-17651-04 0046 Ischemic heart disease specialized center of research - Clinical core--Physiological changes/biochemical effects of myocardial ischemia
** P50HL-17655-04 0001 Study of ischemic heart disease - Intravenous nitroglycerin--Ventricular function and infarct size (human, dog)
P50HL-17655-04 0004 Study of ischemic heart disease - Coronary arteriography in survivors of acute myocardial infarction (human)
P50HL-17655-04 0009 Study of ischemic heart disease - Random trial of medical and surgical therapy in unstable angina (human)
P50HL-17665-04 0001 Study of ischemic heart disease - Reduction of acute anterior myocardial infarction--Mechanical circulatory assist
P50HL-17665-04 0002 Study of ischemic heart disease - Reducing acute anterior myocardial infarction--Beta adrenergic blockade (human)
P50HL-17665-04 0005 Study of ischemic heart disease - Evaluation of zone of jeopardized myocardium in patients with angina pectoris
** P50HL-17665-04 0012 Study of ischemic heart disease - Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog
P50HL-17665-04 0013 Study of ischemic heart disease - National cooperative study in unstable angina pectoris (human)
P50HL-17665-04 0020 Study of ischemic heart disease - Ischemic injury to myocardium during measured states of ischemia (human)
P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)
** P50HL-17665-04 0022 Study of ischemic heart disease - Effect of coronary revascularization on left ventricular function (human)
P50HL-17665-04 0028 Study of ischemic heart disease - Pathologic and biochemical studies of ischemic myocardium (human, dog)
P50HL-17667-04 0042 Study of ischemic heart disease - Core--Central instrumentation and software
** P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
** P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
P50HL-17682-04 0001 Study of ischemic heart disease - Studies in acute and chronic ischemic heart disease (human)
P50HL-17682-04 0003 Study of ischemic heart disease - Effects of myocardial revascularization in man
P50HL-17682-04 0008 Study of ischemic heart disease - Clinical core unit
P50HL-17682-04 0009 Study of ischemic heart disease - Computer core unit
P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
** P50HL-17682-04 0013 Study of ischemic heart disease - Chronic ischemic heart disease--Myocardial function and metabolism (dogs, swine)
** P50HL-17682-04 0015 Study of ischemic heart disease - Acute myocardial ischemia and infarction and their reversibility (dogs, baboons)
P50HL-17682-04 0016 Study of ischemic heart disease - Endurance exercise--Prevention and rehabilitation in ischemic heart disease (pig)
R01HL-17732-03 Peripheral venomotor control in thermal stress (human)
R01HL-17799-02 The presence and significance of heart acetylcholine (cats)
P01HL-17812-04 0007 Thrombosis and plasma proteins - Blood components--Response to endotoxin (dogs, baboons)
P01HL-17813-04 0007 Lung disease and the oxygenation of blood and tissue - Studies on the function of myoglobin (dogs)
R01HL-17859-04 Computational methods in cardiac fluid dynamics
** R01HL-17895-04 Myocardial function and metabolism following ischemia (rats)
** R01HL-17970-04 Vascular effects of inhibitory behavioral adaptations (dogs)
M R01HL-17993-04 Ventricular dynamics from surgically inserted markers
** R01HL-17993-04 0001 Ventricular dynamics from surgically inserted markers - Effects of aortocoronary bypass graft surgery on ventricular function (human)
** R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
** R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
** R01HL-17993-04 0004 Ventricular dynamics from surgically inserted markers - Exercise training following coronary artery bypass graft surgery (human)
** R01HL-17993-04 0005 Ventricular dynamics from surgically inserted markers - Cardiac dimensions and dynamic after mitral, aortic valve surgery (human)
** R01HL-17993-04 0006 Ventricular dynamics from surgically inserted markers - Atrial pacing in transplant patients
** R01HL-17993-04 0007 Ventricular dynamics from surgically inserted markers - Digitalis after coronary artery surgery (human)
** R01HL-17993-04 0008 Ventricular dynamics from surgically inserted markers - Exercise after coronary bypass (human)
R01HL-17993-04 0010 Ventricular dynamics from surgically inserted markers - Postoperative cardiovascular visualization (human)
** R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
R01HL-18060-04 Exercise and coronary atherosclerotic heart disease (monkeys)
R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
R01HL-18144-03 Preprocessor system for cardiograms (human)
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
** R01HL-18460-01 Effects of prolonged hypoperfusion on the myocardium (rabbits)
R01HL-18560-03 Cardiovascular adaptation to stress (miniature swine)
P01HL-18646-03 0010 Studies basic to heart transplantation - Oevelopment and study of a heart preservation chamber (dogs, sheep)
R01HL-18683-03 Left ventricle function in aortic regurgitation (human)
R01HL-18731-02 RES stimulating materials in experimental shock (dogs)
R01HL-18769-04 Studies in survivors of lethal arrhythmias (human)
R01HL-18805-04 0003 Sudden cardiac death and the onset of myocardial infarction - Prediction from clinical and laboratory assessments (human)
R01HL-18805-04 0004 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Clinical follow-up and therapy (human)
R01HL-18805-04 0005 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Radionuclide studies (human)
R01HL-18805-04 0007 Sudden cardiac death and the onset of myocardial infarction - Analysis of pathologic factors involved in sudden death (human)
R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
R01HL-19135-04 Heterogeneity of regional myocardial blood flow (dogs)
** R01HL-19181-02 Regulation of heart cAMP-dependent protein kinase (rodents)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
M R01HL-19225-02 Types and machanims of pulmonary hypertension
** R01HL-19225-02 0003 Typas and mechanims of pulmonary hypartension - Cardiopulmonary function in pigs and rats
** R01HL-19257-03 Cardiovascular adjustment to behavioral stress (dog)
** R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
** R01HL-19425-03 Cardiac function in hypertrophy (dog)
** R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
R01HL-19678-01 Quantification of intrathoracic fluid by impedanca (human, dogs)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-19937-02 Vasodilators in experimental myocardial infarction (dogs)
R01HL-19977-02 Genesis of circulatory shock by pancreatic peptides (cats, dogs)
** R01HL-20080-02 Surgically induced myocardial edema (dogs)
** R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
R01HL-20211-02 Role of taurine in the heart (dogs, rats, mice)
R01HL-20230-02 Analysis of the action potential of cardiac muscle (sheep)
** R01HL-20253-02 Effects of exercise on the heart and its blood supply (dogs)
** R01HL-20274-02 Gated imaging with the MGH x-ray camera
** R01HL-20374-03 Myocardial function--Risk factors and future CHD (human)
** R01HL-20476-03 Effects of diabetes on cardiac performance (rat)
** R01HL-20484-03 Effects of diabetes on cardiac function and metabolism (rats)
P01HL-20552-02 9001 The development and regression of cardiac hypertrophy - Core A--Pathology
M R01HL-20572-02 Hemodynamic relations to metabolism in hypertension
** R01HL-20572-02 0001 Hemodynamic relations to metabolism in hypertension - Hemodynamic and myocardial functional studies in the SHR (rat)
** R01HL-20572-02 0007 Hemodynamic relations to metabolism in hypertension - Drug effects on cardiac function and hypertropy (rats)
R01HL-20677-02 Radionuclide studies in congenital heart disease
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
R01HL-20829-02 Fluid mechanics of heart valve prostheses (dogs, human)
R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)
R01HL-21293-02 Randomized study of coronary bypass surgery (human)
R23HL-21327-02 Molecular mechanisms of chemical myocardiopathies (rats)
** R23HL-21368-02 Perinatal cardiac electrophysiology (dogs)
R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
** R01HL-21482-01 Cardiac function and metabolism in diabetes (rats)
R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
R01HL-21786-01 Long-term effects of myocardial protection (dogs, rats)
** R01HL-21985-01 Videoroentgenography in congenital heart disease
R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
R01HL-22069-02 Experimental renal arterial hypertension (dogs)
** R01HL-22154-01 Cardiac adaptation to physical training (dog)
** R01HL-22265-02 Isozymes of heart glutamate aspartate transaminase (swine, ducks)
R01HL-22274-01 Quantitating in series effects in cardiac arrhythmias (dogs)
** R01HL-22315-01 Intraoperative cardiac oxygen supply-demand (dogs, rabbits, rats)
** R01HL-22361-01 Regulation of cardiac adaptation to exercise (rats)
** R01HL-22401-01 Regulation of tension and active state in the heart
** R01HL-22418-01 Neural control of cardio-respiratory function (cats)
** R01HL-22461-01 Cardiac tropomyosin and tropomyosin-action interactions (rabbit)
** R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
** R01HL-22801-01 Analysis of coronary artery behavior (dogs)
** R01HL-22815-01 Regional myocardial function after revascularization (dogs)
R01HL-22859-01 Effect of carbon monoxide on the developing haart (rats)
** R01HL-22894-01 Two dimensional ultrasound and cardiac surgery (human, dogs)
** R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)
N01HV-42914-13 Solenoid left ventricular assist system (cattle)

HEART FUNCTION, CARDIAC OUTPUT

SEE ALSO HEART DISORDERS, OUTPUT ABNORMALITIES

** R01HL-03181-21 0020 Hemodynamics as applied to surgical problems - Blood flow measurement--Cardiac output and regional flows (dogs)
P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
P01HL-04664-18 0005 Cardiovascular and lung dynamics - Applications of current research, equipment and techniques
P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
** P01HL-06285-18 0126 Cardiovascular-respiratory physiology and biochemistry - Ventricular output, foramen ovale and ductus arteriosus flows (lambs)
P01HL-06285-18 0146 Cardiovascular-respiratory physiology and biochemistry - Pathogenesis and detection of hypoxic pulmonary edema (human, animals)
** P01HL-06285-18 0157 Cardiovascular-respiratory physiology and biochemistry - Left ventricle outflow impedance analysis (human)
P01HL-06285-18 0164 Cardiovascular-respiratory physiology and biochemistry - CPK MB isoenzyme concentration to quantify infarct size (human, animals)
P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
P01HL-06835-17 0040 Cardiovascular disease - Benign and malignant phase of renal hypertension (dogs)
** P01HL-06835-17 0051 Cardiovascular disease - Cardiopulmonary volume in hypertension (human)
P01HL-06835-17 0053 Cardiovascular disease - Vasodilating drugs (human)
P01HL-06835-17 0059 Cardiovascular disease - Metyrapone-induced hypertension in dog
** P01HL-06835-17 0060 Cardiovascular disease - Ventricular performance experimental models of arterial hypertension (rats, dogs)
P01HL-07293-17 0043 Non-invasive cardiovascular measurements - ECHO-Doppler instrumentation for cardiac measurements (human)
P01HL-07293-17 0051 Non-invasive cardiovascular measurements - Physiologic evaluation of duplex scanner (dogs)
P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
P01HL-07896-15 0033 Environmental biomedical research program - Breathing mechanism in birds
P01HL-07896-15 0054 Environmental biomedical research program - Myocardial effects of hemorrhagic shock (dogs)
P01HL-08682-15 0021 Regulation of the cardiovascular system - Hypoglycemia in pathogenesis of shock (dog)
** P01HL-08682-15 0023 Regulation of the cardiovascular system - Cardiovascular control--Effects of spinal pathways lesions (dog)
P01HL-08682-15 0026 Regulation of the cardiovascular system - Hypertension--High renin vs low renin (dog)
P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation of renal function (dogs)
R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
R01HL-09711-13 Instantaneous blood flow in ascending aorta (human, dogs)
P01HL-10342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
** P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
P01HL-10539-12 0068 Pathophysiology of circulation Acute and chronic cardiomyopathias (mice, dogs, hamsters, human)
P01HL-10539-12 0070 Pathophysiology of circulation Effects of hypertension on myocardial blood flow after coronary occlusion (dogs)
** R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
R01HL-11152-12 Vascular physiology (human, cats, dogs)
P01HL-11310-12 0055 Mechanisms of cardiovascular disaase - Ventricular pressure-volume after intracardiac surgery (human)
** P01HL-11310-12 0056 Mechanisms of cardiovascular disease - Cardiac output response to blood prassure reduction in infants (human)
** P01HL-11310-12 0057 Mechanisms of cardiovascular disease - Blood pressure reduction after heart surgary in adults (human)
P01HL-11310-12 0059 Mechanisms of cardiovascular disease - Contractility--Acute response to diogoxin after heart surgery (children)
** P01HL-11310-12 0062 Mechanisms of cardiovascular disease - Myocardial depressant factor in postoperative cardiac dysfunction (human, dogs)
** P01HL-11310-12 0066 Mechanisms of cardiovascular disease - Measurement of cardiac output by thermodilution (children)
** P01HL-11310-12 0067 Mechanisms of cardiovascular disease - Cardiac performance with measured homodynamic variables (human)
** P01HL-11310-12 0076 Mechanisms of cardiovascular disease - Tratment of depressed cardiac output following heart surgery (children, puppies)
P01HL-11310-12 9001 Mechanisms of cardiovascular disease - Core support-hospital beds
P01HL-11678-11 0020 Cardiovascular dynamics and their control - Circulatory and pulmonary fluid dynamics during pulmonary edema
P01HL-11678-11 0043 Cardiovascular dynamics and their control - Basic mechanisms of circulatory shock (dog)
** P01HL-11678-11 0059 Cardiovascular dynamics and their control - Basic hemodynamics (dogs, rats)
P01HL-11678-11 0063 Cardiovascular dynamics and their control - Renin-angiotensin system--Control of renal hemodynamics, electrolyte excretion
P01HL-11678-11 0065 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (dogs)
P01HL-11678-11 0068 Cardiovascular dynamics and their control - Basic hemodynamics (rats, dogs)
P01HL-11678-11 0069 Cardiovascular dynamics and their control - Nervous control of the cirulation (dogs)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
P01HL-12738-10 0111 Physiologic pharmacology and its clinical applications - Cardiovascular pharmacology (dogs)
** P01HL-13108-09 0023 Clinical heart transplantation - Adaptive mechanisms of the denervated heart (human)
P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and evaluation of left ventricular bypass pumps (human, cattle)
P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
R01HL-13634-08 Renal hypertension in pregnancy (sheep)
R01HL-13936-06 Microvascular responses in hypertension (human, rats)
P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
P50HL-14187-07 0005 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary hypertension and cardiac function (dogs, human)
P50HL-14214-07 0030 Newborn lung center for hyaline membrane disease - Effects of ductal patency--Impedance cardiography and echocardiography (human)
P50HL-14230-07 0088 A/S SCOR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
P01HL-14414-07 0015 Environmental influences on cardiorespiratory and cellular functions - Control of the cardiovascular system (dogs)
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
R01HL-14560-07 Hypertension produced by sympathetic dysfunction (human, rats)
R01HL-14645-07 Blood flow measurement by ultrasonic catheter tip methods (human, dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-14967-06 Chemoreceptor function in dynamic ventilatory control (human, dogs)
P01HL-14985-07 0002 Adaptation to hypoxia - Oxygen transport in man at high altitude
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
P01HL-14985-07 0015 Adaptation to hypoxia - Pregnancy at high altitude (human, animals)
P60HL-15158-07 0025 Comprehensive sickle cell center - Cardiovascular evaluation of children with sickle cell disease (human)
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
** R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
R01HL-15983-04 Regional myocardial blood flow (dogs)
R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
** R01HL-16390-05 Cardiopulmonary control coupling in exercise (dogs)
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-16784-03 Lung tissue and water volume (human, dogs)
P01HL-16910-05 0006 Regulation of the peripheral circulation - Regulation of blood flow distribution (baboons, dogs)
** R01HL-17246-03 Oxygen uptake at one minute of exercise (human)
** P60HL-17269-04 0030 National heart and blood vessel research and demonstration center - Cardiovascular engineering laboratories (human)
P60HL-17269-04 0032 National heart and blood vessel research and demonstration center - Clinical circulatory assist device fabrication
R01HL-17341-03 Practical total synthesis of prostaglandins
R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
** R01HL-17403-03 Metabolic control of cardiac output (dogs)
R01HL-17459-03 Myocardial ischemia (dogs)
R01HL-17591-03 Development of electromagnetic rheoangiography (human, dogs)
P50HL-17646-04 0001 Study of ischemic heart disease - Core clinical investigation unit
P50HL-17646-04 0014 Study of ischemic heart disease - Progression of ischemic injury in conscious dogs (also rabbits)
P50HL-17648-04 0006 Study of ischemic heart disease - Ventricular performance and myocardial perfusion in obstructive coronary disease
P50HL-17651-04 0002 Ischemic heart disease specialized center of research - Reduction of myocardial ishemic injury by pharmacologic agents (human, dog)
P50HL-17651-04 0023 Ischemic heart disease specialized center of research - Oevelopment of multipurpose catheter for monitoring and electronic pacing
P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
P50HL-17651-04 0043 Ischemic heart disease specialized center of research - Gradual reperfusion following acute coronary occlusion (dog)
P50HL-17651-04 0045 Ischemic heart disease specialized center of research - Peripheral vascular studies--Pharmacology (dogs, human)
P50HL-17655-04 0003 Study of ischemic heart disease - Cardiopulmonary resuscitation (human, dog)
P50HL-17655-04 0011 Study of ischemic heart disease - Core facility--Cardiovascular nuclear medicine (human, dog)
P50HL-17665-04 0022 Study of ischemic heart disease - Effect of coronary revascularization on left ventricular function (human)
P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human)
P50HL-17665-04 0027 Study of ischemic heart disease - Positron imaging of regional myocardial perfusion (human, dog)
P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
P50HL-17667-04 0022 Study of ischemic heart disease - Preventing myocardial injury in surgery using cardiopulmonary bypass (human, rat)
P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
P50HL-17669-04 0013 Ischemic heart disease center (SCOR) - Exercise in patients with ischemic heart disease
P50HL-17670-04 0015 Study of ischemic heart disease - Radionuclide studies of myocardial ischemia (human)
P50HL-17682-04 0007 Study of ischemic heart disease - Mechanisms of hypoxemia in myocardial infarction (human)
R01HL-17808-03 Effect of altered oxygen affinity on oxygen transport (human, rats)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
R01HL-17993-04 0006 Ventricular dynamics from surgically inserted markers - Atrial pacing in transplant patients
R01HL-17993-04 0008 Ventricular dynamics from surgically inserted markers - Exercise after coronary bypass (human)
R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
P50HL-18318-03 0010 Pathogenesis and complications of hypertension - Hemodynamics in mineralocorticoid and low renin hypertension (human)
P50HL-18323-04 0012 SCOR hypertension center - Renin as a risk factor (human)
P50HL-18323-04 0042 SCOR hypertension center - Blood viscosity and blood volume in hypertensive disease (human, dog)
P50HL-18323-04 0046 SCDR hypertension center - Coronary artery bypass surgery--Associated hypertension (human)
R01HL-18560-03 Cardiovascular adaptation to stress (miniature swine)
P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
** P01HL-18575-03 0006 Mechanisms of vascular changes in hypertension - Evaluation of arterial compliance in hypertension (human, pigs)
P01HL-18708-03 0009 Oxygen, energy and contractility in cardiac tissue - Regulation of oxygen utilization of cardiac tissue (rats, rabbits)
R01HL-18862-02 Thirst and its contribution to edema (dogs)
R01HL-18933-03 Energy output and efficiency of left ventricle (dog)
P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)
P01HL-18974-03 0006 Experimental neurogenic hypertension program - Model of sustained arterial hypertension (cats)
P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)
R01HL-18976-03 Blood pressure control--Relation to behavioral stress (human, dog)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
** R01HL-19091-02 Sustained increase in cardiac output (dogs)
R01HL-19144-03 Contraceptive steroids and experimental hypertension (rats)
P50HL-19155-02 0004 Pathophysiology of pulmonary edema - Physical and chemical effects of multiple pulmonary emboli (sheep)
P50HL-19190-02 0008 Pulmonary SCOR--Pathophysiology, management of IRDS - Hemodynamics and gas exchange--Oeterminants of hypotension (human, infant)
P50HL-19190-02 0009 Pulmonary SCOR--Pathophysiology, management of IRDS - Oeveloping non-invasive neonatal pulmonary monitoring systems (rabbit, human)
R01HL-19225-02 0003 Types and mechanims of pulmonary hypertension - Cardiopulmonary function in pigs and rats
R01HL-19256-03 Arterial baroreceptors in cardiovascular control (dogs)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
R01HL-19410-03 Oynamic interrelations underlying exercise hyperpnea (human)
R01HL-19425-03 Cardiac function in hypertrophy (dog)
R01HL-19449-03 Gas exchange in acute respiratory failure
R01HL-19461-03 Myocardial energetics in hypertrophy and heart failure (rabbits)
R01HL-19680-01 Cardiac correlates of behavioral stress in animals (dog)
R01HL-19870-03 Hypertensive progeny--Physical and humoral precursor search
R01HL-20124-02 Coronary risk factors (human)
R01HL-20187-01 Evaluation of exercise cardiac rehabilitation program (40-55 year old men)
R01HL-20356-02 Development and evaluation of an artificial heart (calves)
** R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
R01HL-20476-03 Effects of diabetes on cardiac performance (rat)
R01HL-20484-03 Effects of diabetes on cardiac function and metabolism (rats)
R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
P01HL-20552-02 0004 The development and regression of cardiac hypertrophy - Ventricular function in experimentally induced hypertrophy (hogs, sheep, baboons)
R01HL-20572-02 0001 Hemodynamic relations to metabolism in hypertension - Hemodynamic and myocardial functional studies in the SHR (rat)
R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood flow in hypertension (rats)
R01HL-20572-02 0007 Hemodynamic relations to metabolism in hypertension - Orug effects on cardiac function and hypertropy (rats)
** R01HL-20612-02 Chronic animal model of pulmonary vascular injury (dogs)
R01HL-20630-03 Oevelopment of a pulsed Ooppler velocity detector (human, animals)
R01HL-20634-01 Blood volume and venous return in thermal strain (human)
** R01HL-20690-02 Pulmonary hemodynamics in lung edema during PEEP (dogs)
R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
R01HL-20895-03 0011 Cineangiographic studies of cardiovascular system - Ventricular hypertrophy and preoutflow contraction (human, dogs)
P01HL-20994-02 0002 Oynamics of neutrophil elastase in the lung - Neutrophil and neutrophilic elastase in human lungs
R01HL-21076-02 Lung fluid, protein exchange after hemorrhagic shock (sheep)
R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
R23HL-21197-02 Right ventricular contraction and relaxation (dogs)
R01HL-21245-02 Influence of chronic exercise on hypertension (rats, primates)
R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
R01HL-21435-02 Control, cardiovascular and renal effects of potassium (dogs)
R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
R01HL-21523-01 Hemodynamic effects of dietary sodium in man
R01HL-21578-01 Effect of exercise upon the hypertensive adolescent
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
R01HL-21893-01 Blood volume distribution in hypertension (human)
** R01HL-22321-01 Cardiac output from the pneumocardiogram (dogs)
** R01HL-22326-01 Noninvasive measurement of cardiac output (dogs)
R01HL-22506-01 Hemodynamics of the clinical hypertensions
R01HL-22546-02 Baroreceptor reflex mechanisms in man
R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)
R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)
R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))
R01HL-22778-01 Total synthesis of natural cardiotonic ionophores
R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
R01HL-22982-01 Multicenter postcoronary risk stratification program (human)
R01HL-23015-01 Mechanisms of hypo-oncotic pulmonary edema (human, dogs)
R01HL-23201-01 Mechanisms of hypertension (human, rats)
R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)
R01HL-23653-01 Protection of the ischemic myocardium (dogs)
R01HL-23970-01 Mechanisms and control of sudden cardiac death (human, dog)
N01HV-12060-18 Tissue cultured endothelium for vascular prosthetic devices (human, animals)
N01HV-72937-00 Left heart assist blood pumps (calves)
N01HV-72975-02 Energy converter for left ventrical assist devices (calves)

HEART FUNCTION, HEART CONTRACTION

R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
R01HL-01755-25 Fetal and neonatal cardiovascular function (sheep)
** R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
** P01HL-04664-18 0004 Cardiovascular and lung dynamics - X-ray cross section imaging of the circulation (dogs)
** P01HL-04664-18 0011 Cardiovascular and lung dynamics - Oetection of abnormal segments of the human ventricle by measure of asynergy
P01HL-04664-18 0013 Cardiovascular and lung dynamics - Ventricular function in coronary disease using NTG and ventriculograms (human)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-04664-18 0015 Cardiovascular and lung dynamics - Computer system for the cardiovascular laboratory
R01HL-05883-18 0004 Reflex control of resistance and capacitance vessels - Left ventricular receptors with nonmedullated vagal afferents (cats)
** P01HL-06285-18 0153 Cardiovascular-respiratory physiology and biochemistry - Myocardial mechanics and pharmacology in isolated papillary muscle (animals)
P01HL-06285-18 0154 Cardiovascular-respiratory physiology and biochemistry - Function and viability of critically ischemic myocardium (dogs)
** P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
P01HL-06285-18 0156 Cardiovascular-respiratory physiology and biochemistry - Myocardial performance following revascularization (human)
** P01HL-06285-18 0157 Cardiovascular-respiratory physiology and biochemistry - Left ventricle outflow impedance analysis (human)
** P01HL-06285-18 0158 Cardiovascular-respiratory physiology and biochemistry - Load on myocardial contractility (dogs)
P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
P01HL-06308-18 0029 Mechanisms and therapy of circulatory disease - Characterization of the patient with recurrent ventricular arrhythmias
P01HL-06308-18 0035 Mechanisms and therapy of circulatory disease - Mechanisms for electrophysiological changes in myocardial infarction (dogs)
P01HL-06308-18 0044 Mechanisms and therapy of circulatory disease - Echocardiography to determine site of ectopic impulse formation (human, dogs)
P01HL-06312-17 0036 Surgical cardiology - Experimental studies of cardiac compliance (dogs)
P01HL-06312-17 0044 Surgical cardiology - The limits of topical cardiac hypothermia with ice chips (rats)
P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
P01HL-06835-17 0041 Cardiovascular disease - Cardiac performance in rats with renal hypertension
P01HL-06835-17 0042 Cardiovascular disease - Myocardial hypertrophy due to renal hypertension (rats)
** P01HL-06835-17 0060 Cardiovascular disease - Ventricular performance experimental models of arterial hypertension (rats, dogs)
R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
M P01HL-07293-17 Non-invasive cardiovascular measurements
P01HL-07293-17 0041 Non-invasive cardiovascular measurements - Ventricular volumes and dimensions (human)
P01HL-07293-17 0043 Non-invasive cardiovascular measurements - ECHO-Doppler instrumentation for cardiac measurements (human)
P01HL-07293-17 0053 Non-invasive cardiovascular measurements - Clinical evaluation of cardiac dimensions using the duplex scanner (human)
** R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
M P01HL-08682-15 Regulation of the cardiovascular system
P01HL-08682-15 0015 Regulation of the cardiovascular system - Projection of autonomic nerves onto the heart (dog)
P01HL-08682-15 0017 Regulation of the cardiovascular system - Neurally induced cardiac dysrhythmias (dog)
** P01HL-08682-15 0031 Regulation of the cardiovascular system - Cardiac electrophysiology in hibernation (ground squirrel, marmot)
P01HL-08682-15 0033 Regulation of the cardiovascular system - Functional and anatomical relations during cardiac re-innervation (dog)
P01HL-08682-15 0036 Regulation of the cardiovascular system - Electrolyte transport in myocardium with hemorrhagic shock (rats)
P01HL-08805-15 0050 Regulation of ventilation and pulmonary circulation - Right ventricular mechanics (dogs)
** R01HL-09234-13 Amino acids of contractile proteins of failing hearts (dogs, hamsters)
R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
R01HL-09711-13 Instantaneous blood flow in ascending aorta (human, dogs)
** R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
P01HL-10342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
** P01HL-10539-12 0067 Pathophysiology of circulation - Mechanical, electrophysiological studies--Isolated heart muscle (dog, rat)
P01HL-10539-12 0068 Pathophysiology of circulation - Acute and chronic cardiomyopathies (mice, dogs, hamsters, human)
P01HL-10539-12 0069 Pathophysiology of circulation - Ventricular compliance and mechanics in intact ventricles (human)
R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
** R01HL-10951-11 Neural control of the heart (dogs, rats)
** P01HL-11307-12 0003 Biophysical studies in pediatric cardiology - Cellular biophysics (animals)
P01HL-11310-12 0055 Mechanisms of cardiovascular disease - Ventricular pressure-volume after intracardiac surgery (human)
** P01HL-11310-12 0059 Mechanisms of cardiovascular disease - Contractility--Acute response to digoxin after heart surgery (children)
P01HL-11310-12 0061 Mechanisms of cardiovascular disease - Computer simulation of transposition of great arteries in infants
P01HL-11310-12 0081 Mechanisms of cardiovascular disease - Analysis of regional left ventricular function (human)
** P01HL-11310-12 0085 Mechanisms of cardiovascular disease - Mechanics of isolated cardiac muscle (animals)
** P01HL-11310-12 0086 Mechanisms of cardiovascular disease - Mechanics of the intact left ventricle (dogs)
** P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
** P01HL-11310-12 0089 Mechanisms of cardiovascular disease - Structure and function in myocardial contraction (dogs)
** P01HL-11310-12 0094 Mechanisms of cardiovascular disease - Physics of pulsatile fluid flow (dogs)
M P01HL-11351-12 Cellular and molecular mechanisms of myocardial function
** P01HL-11351-12 0001 Cellular and molecular mechanisms of myocardial function - Ionic control of myocardial contractility (animals)
** P01HL-11351-12 0003 Cellular and molecular mechanisms of myocardial function - Mechanical and electrical properties of cardiac muscle (rabbits)
** P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
P01HL-11351-12 0005 Cellular and molecular mechanisms of myocardial function - Electrophysiology of cardiac muscle (rats)
** P01HL-11351-12 0006 Cellular and molecular mechanisms of myocardial function - Molecular physiology and energetics of muscle (frogs)
** P01HL-11351-12 0010 Cellular and molecular mechanisms of myocardial function - Basic ionic exchange studies (rats)
P01HL-11351-12 0011 Cellular and molecular mechanisms of myocardial function - Comparative contractile tissue studies (animals)
** P01HL-11351-12 0013 Cellular and molecular mechanisms of myocardial function - Ion exchange in the perfused septum high-resolution technique (rabbits, rats)
P01HL-11351-12 0019 Cellular and molecular mechanisms of myocardial function - Mechano-chemical kinetics of small perturbations
P01HL-11414-11 0034 Thrombosis and atherosclerosis program - Servo simulation--Experimental myocardial infarction (dogs)
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
P01HL-12157-11 0057 Functions and mechanisms of cell membrane ion transport - Electrophysiological investigations of synthetic strands of heart muscles (rats)
** P01HL-12373-10 0001 Cardiopulmonary physiology and pathophysiology - Mechanics of myocardial contraction (dogs, rats, swine)
** P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Determinants of performance of the whole heart (dogs)
** P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
R01HL-12576-10 Bioenergetics apparatus in heart mitochondria
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
P01HL-12738-10 0111 Physiologic pharmacology and its clinical applications - Cardiovascular pharmacology (dogs)
** R01HL-12774-08 Ionic coupling in activation of cardiac muscle (frogs, guinea pigs)
** R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
R01HL-13028-09 Regulation of myocardial fatty acid metabolism (rats)
** P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
P01HL-13108-09 0022 Clinical heart transplantation - Studies on cardiac receptors (human)
P01HL-13108-09 0023 Clinical heart transplantation - Adaptive mechanisms of the denervated heart (human)
P01HL-13108-09 0024 Clinical heart transplantation - Response of denervated heart to stress Noninvasive (human)
R01HL-13349-06 Analysis of activation process in heart muscle (guinea pigs, rabbits, human)
** P01HL-13480-09 0026 Cardiac electrophysiology - Neural influences on cardiac electrophysiology and contraction (dog, cat)
P01HL-13480-09 0032 Cardiac electrophysiology - Cardiac activation sequence (dogs)
P01HL-13737-07 0024 Assisted circulation - Dynamic prosthetic myocardium (dogs)
P01HL-13737-07 0036 Assisted circulation - Assessment of infarct size from hemodynamic measurements
P01HL-13737-07 0038 Assisted circulation - Distinguishing the ischemic ventricle from scarred ventricle by balloon pumping
R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
P01HL-14388-07 0173 Regulation of the circulation in pathological states - Mechanisms of cardiac myosin ATPase
P01HL-14388-07 0214 Regulation of the circulation in pathological states - Deformation pattern and stress analysis of the left ventricle
P01HL-14388-07 0215 Regulation of the circulation in pathological states - Left ventricle model in pathophysiologic states
P01HL-14388-07 0216 Regulation of the circulation in pathological states - Development and regression of ventricular hypertrophy (cats, rats)
P01HL-14388-07 0217 Regulation of the circulation in pathological states - Fluid mechanics of aortic flow (dogs, human)
** R01HL-14461-08 Cardiac metabolism in heart failure (rats)
R01HL-14529-07 Systems analysis of baroreflex (dogs)
R01HL-14545-06 Mechanics of compensatory ventricular hypertrophy (dogs)
** R01HL-14614-07 Voltage control of contraction in heart (sheep)
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
R01HL-14651-05 Mechanical behavior of left ventricle (dogs, rats)
** R01HL-14903-07 A new index of cardiac contractility (human, dogs, baboons)
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
** R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
** R01HL-15692-07 Force and speed in skeletal and cardiac muscle
R01HL-15694-06 Pulmonary factors in circulatory regulation
** R01HL-15740-06 In vitro studies on heart cell function (rats)
R01HL-15758-06 Catecholamine release in the heart (dogs)
** R01HL-15764-05 C-AMP dependent protein kinase in cardiac contraction (dogs)
R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
M P01HL-15835-06 Study of muscles related to heart disease
** P01HL-15835-06 0001 Study of muscles related to heart disease - Control of contraction-relaxation of heart and muscle (rabbits, chickens)
** P01HL-15835-06 0013 Study of muscles related to heart disease - Cardiac bioenergetics (rats)
** P01HL-15835-06 0023 Study of muscles related to heart disease - Cellular basis of the Frank-Starling curve (frogs, rats)
R01HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
R01HL-15888-05 Comparative stereology of the myocardium (birds, mammals)
** R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
** R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
P01HL-16117-05 0001 Ion movements and membranes in cardiovascular control - Developmental studies of contractile cell junctions (rats, rabbits, elasmobranch)
** P01HL-16117-05 0002 Ion movements and membranes in cardiovascular control - Fluorescence and excitation-contraction coupling in heart (frogs)
** P01HL-16117-05 0004 Ion movements and membranes in cardiovascular control - Optical studies of excitation-contraction coupling (frogs, snakes)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-16117-05 0005 Ion movements and membranes in cardiovascular control - Properties of isolated cell membranes (rabbits, cats)
M P01HL-16117-05 0006 Ion movements and membranes in cardiovascular control - Neuroreceptors and cellular excitation (fish)
** R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
** R01HL-16240-05 The cardiac histamine receptor (rabbits, guinea pigs)
R01HL-16292-05 0002 Surgery and non-obstructive coronary insufficiency - Effects of hypothermia during cardiopulmonary bypass (dogs)
** R01HL-16436-04 Role of calcium and thyroxine in heart function (rats)
** R01HL-16507-04 Heart cell interactions and cell junction biogenesis (mice, rats, rabbits)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
** R01HL-16606-11 Contraction in heart and other striated muscles (frogs)
M P01HL-16607-05 Calcium ion and control of cardiovascular function
** P01HL-16607-05 0003 Calcium ion and control of cardiovascular function - Calcium transport in sarcoplasmic membranes (animals)
** R01HL-16656-06 Left ventricular function in exercise (dogs)
** R01HL-16706-04 Excitation-contraction coupling and heart failure (dogs, rabbits)
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
P60HL-17269-04 0022 National heart and blood vessel research and demonstration center - Medicinal chemistry (rabbit, dog, guinea pig)
P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Dynamics of ischemic heart disease (human, dog)
** R01HL-17376-04 Analysis of Z bands in heart by optical diffraction (mammals)
R01HL-17403-03 Metabolic control of cardiac output (dogs)
R01HL-17459-03 Myocardial ischemia (dogs)
** R01HL-17592-03 Activation and contraction heat in enlarged hearts (rabbits)
** R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
** R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
P50HL-17646-04 0010 Study of ischemic heart disease - Compliance in ischemic myocardium--Altered cardiac performance (human, dogs)
P50HL-17646-04 0016 Study of ischemic heart disease - Humoral factors in ischemic heart rhythm, mechanical performance (dog, rabbit)
** P50HL-17648-04 0021 Study of ischemic heart disease - Biventricular contractile responses to acute myocardial infarction (mammals)
P50HL-17665-04 0012 Study of ischemic heart disease - Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog
P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human)
** P50HL-17669-04 0007 Ischemic heart disease center (SCOR) - Relationship between myocardial depression and compliance (dogs, cats)
** P50HL-17669-04 0008 Ischemic heart disease center (SCOR) - Segmental ventricular dysfunction during stress-induced ischemia (dog, human)
P50HL-17669-04 0013 Ischemic heart disease center (SCOR) - Exercise in patients with ischemic heart disease
P50HL-17670-04 0020 Study of ischemic heart disease - Radionuclide evaluation of coronary artery disease (human, dog)
P50HL-17670-04 0022 Study of ischemic heart disease - Myocardial metabolism in hypoxia and recover (rabbit, toad, dog)
P50HL-17682-04 0005 Study of ischemic heart disease - Regional myocardial perfusion deficits and segmental contraction disorders in man
P50HL-17682-04 0024 Study of ischemic heart disease - Phosphorylation of cardiac contractile proteins during ischemia (rat, guinea pig)
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
** R01HL-17969-04 Function and structure of semilunar valves (dogs)
R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
R01HL-17993-04 0005 Ventricular dynamics from surgically inserted markers - Cardiac dimensions and dynamic after mitral, aortic valve surgery (human)
R01HL-17993-04 0006 Ventricular dynamics from surgically inserted markers - Atrial pacing in transplant patients
R01HL-17993-04 0008 Ventricular dynamics from surgically inserted markers - Exercise after coronary bypass (human)
R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
R01HL-18087-03 Development and regression of cardiac hypertrophy (rats, rabbits)
** R01HL-18280-03 Regulation of cardiac contractility and metabolism (rats)
** R01HL-18338-04 Computer feedback study of cardiac muscle mechanics (rats)
R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
R01HL-18460-01 Effects of prolonged hypoperfusion on the myocardium (rabbits)
R01HL-18517-03 Intrinsic innervation of the heart (dogs)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
R01HL-18537-04 Regional blood flow after acute myocardial injury (dogs)
** R01HL-18554-03 Taurine metabolism in mammalian heart (rodents, cattle, swine)
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
** R01HL-18612-03 Thin filament control of heart contraction (cattle)
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
R01HL-18676-03 Myocardial sarcomere mechanics (rat)
M P01HL-18708-03 Oxygen, energy and contractility in cardiac tissue
** P01HL-18708-03 0004 Oxygen, energy and contractility in cardiac tissue - Structural-functional studies on sarcoplasmic reticulum (rabbits)
** P01HL-18708-03 0005 Oxygen, energy and contractility in cardiac tissue - Cytosolic calcium homeostasis and bioenergetics of cardiac tissue (animals)
** P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
** P01HL-18708-03 0009 Oxygen, energy and contractility in cardiac tissue - Regulation of oxygen utilization of cardiac tissue (rats, rabbits)
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
R01HL-18749-03 Ventricular mechanics in the overloaded heart (dogs)
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
** R01HL-18900-03 Intercellular factors in function of cardiac cells
** R01HL-18912-03 Mechanics of heart muscle contraction (cats, dogs)
R01HL-18933-03 Energy output and efficiency of left ventricle (dog)
** R01HL-18943-03 Contractile activity of single cardiac cells
R01HL-18979-02 Mechanisms in local regulation of coronary flow (rabbits)
R01HL-19044-03 Effect of drugs on development of cardiac failure (cats)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
** R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
** R01HL-19133-03 Contractile and elastic properties of cardiac muscle (cats)
** R01HL-19138-03 Contractile activation of skinned cardiac cells (mammals)
R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R01HL-19181-02 Regulation of heart cAMP-dependent protein kinase (rodents)
P50HL-19190-02 0008 Pulmonary SCOR--Pathophysiology, management of IRDS - Hemodynamics and gas exchange--Determinants of hypotension (human, infant)
R01HL-19218-03 Local regulation of coronary flow by prostaglandins (rabbits)
R01HL-19246-03 Regression of cardiac hypertrophy--Myocardial and renal (human)
R01HL-19325-03 Phosphodiesterase inhibition and muscle contraction
** R01HL-19343-03 Behavioral influences on cardiac contractility (monkeys)
R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
R01HL-19391-03 Dynamic determinants of left ventricular filling (dogs)
R01HL-19423-03 Catecholamine action on the heart (cats, rats)
R01HL-19425-03 Cardiac function in hypertrophy (dog)
M R01HL-19451-03 Functional characteristics of the left heart
R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
** R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL-19460-03 Mechanics of the papillary muscle and the left ventricle (cats, rabbits)
R01HL-19461-03 Myocardial energetics in hypertrophy and heart failure (rabbits)
** R01HL-19485-03 Calcium uptake by normal and failed cardiac ATPase (dogs)
R01HL-19487-03 Cardiac actions of digitalis (dogs, cats)
R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
** R01HL-20286-02 Interventions to improve cardiac function in ischemia (dogs)
R01HL-20369-03 The effect of alcohol on the heart (rats)
R01HL-20401-03 Relationship of insulin to catechol cardiomyopathy (rabbit, pig)
** R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
R01HL-20484-03 Effects of diabetes on cardiac function and metabolism (rats)
M P01HL-20552-02 The development and regression of cardiac hypertrophy
P01HL-20552-02 0001 The development and regression of cardiac hypertrophy - Biochemical events in cardiac hypertrophy (rats)
** P01HL-20552-02 0003 The development and regression of cardiac hypertrophy - Muscle mechanics of the hypertrophied left ventricle (rats)
P01HL-20552-02 0004 The development and regression of cardiac hypertrophy - Ventricular function in experimentally induced hypertrophy (hogs, sheep, baboons)
M P01HL-20592-02 Cell biology of cardiac and skeletal muscle
** P01HL-20592-02 0004 Cell biology of cardiac and skeletal muscle - Excitation, conduction and contraction--Modelling in Purkinje fibers
** P01HL-20592-02 0005 Cell biology of cardiac and skeletal muscle - Quantitative voltage studies
** P01HL-20592-02 0010 Cell biology of cardiac and skeletal muscle - Mitochondrial genesis during myocardial cell hypertrophy and hyperplasia (rats)
R01HL-20598-03 The coronary vascular response to ischemia (dogs, pigs)
R01HL-20613-02 Mechanical properties of isolated myocardium
** R01HL-20643-02 Analysis of heart cell contraction (rats)
R01HL-20658-01 Myocardial energy transport--Creative kinase (human, cattle, dog)
R01HL-20749-01 Developing heart--Biophysical aspects (sheep)
R01HL-20793-02 Phospholipids and cardiac receptor function
R01HL-20895-03 0011 Cineangiographic studies of cardiovascular system - Ventricular hypertrophy and preoutflow contraction (human, dogs)
P01HL-20984-02 0001 Cellular mechanisms in cardiac hypertrophy - Contractile proteins in cardiac hypertrophy (rabbits, calves)
P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
R01HL-21038-01 Electrically induced cardiac EM-histochemical changes (animals)
** R01HL-21145-02 Response of atria to hyperosmolality--Mechanisms (rabbits)
R23HL-21167-02 The electrophysiology of cardiac hypertrophy (rats)
** R01HL-21182-02 Active tension and shortening in cardiac hypertrophy (rabbits)
** R23HL-21197-02 Right ventricular contraction and relaxation (dogs)
R23HL-21234-02 The regulation of cardiac hypertrophy (rabbits)
** R23HL-21262-02 Sodium-calcium interactions in mammalian myocardium (rabbits, cats)
R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
** R01HL-21312-01 Sarcomere mechanics in disrupted ventricular muscle (guinea pigs)
** R23HL-21325-02 Sarcomere kinematics in cardiac contraction (rats, rabbits)
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
** R23HL-21421-01 Myocardial and vascular contractility and cyclic nucleotides (cattle, rats)
R01HL-21425-02 Servo-simulated compliance changes--A reversible MI (dogs)
** R01HL-21435-02 Control, cardiovascular and renal effects of potassium (dogs)
** R01HL-21493-02 Contractility in cardiac failure (hamsters)
** R01HL-21570-01 The mechanical basis of myocardial energetics (cats)
R01HL-21578-01 Effect of exercise upon the hypertensive adolescent
R01HL-21657-01 Regional non-ischemic myocardial hypoxia (dogs)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
** R23HL-21783-01 Ionic control of contractility in anoxic myocardium (rabbits, rats)
** R01HL-21785-01 Left ventricular wall motion analysis
** R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
** R01HL-21850-01 Calcium transport in the hypertrophied myocardium (rats, animals)
R01HL-21922-01 Transient currents induced by strophanthidin in the heart
R01HL-21969-01 Prevention of myocardial hypoxia during by-pass (rats, mice, squirrels)
R01HL-21985-01 Videoroentgenography in congenital heart disease
** R01HL-21993-01 Hypertensive hypertrophy--Effects of cardiac mechanics (rats)
** R01HL-22008-01 Left ventrivular calcium content and contractility (rats)
R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
R01HL-22136-02 Histamine and cardiac adenyl cyclase
** R01HL-22137-02 Structure-function pathology of isolated heart cells (mice, rats)
R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
** R01HL-22269-01 Excitation-contraction coupling in enlarged hearts (rabbits)
** R01HL-22329-01 Active prosthetic myocardium--Effects on LV function (dogs)
** R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
M P01HL-22619-01 Cellular mechanisms of heart failure
** P01HL-22619-01 0001 Cellular mechanisms of heart failure - Cell membrane isolation and reconstitution (dogs, lambs)
** P01HL-22619-01 0002 Cellular mechanisms of heart failure - Structure of sodium, potassium-adenosine triphosphatase (lambs, dogs)
** P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
** P01HL-22619-01 0004 Cellular mechanisms of heart failure - Mechanism of action of Na, K-ATPase (sheep, cattle)
** P01HL-22619-01 0005 Cellular mechanisms of heart failure - Molecular mechanism of regulation of cardiac muscle contraction (cattle)
** P01HL-22619-01 0006 Cellular mechanisms of heart failure - Phosphorylation of contractile proteins in cardiac muscle contraction (dogs, rabb
** P01HL-22619-01 0007 Cellular mechanisms of heart failure - Regulation of contractile protein levels in heart muscle (rats)
** P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
** P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
** R01HL-22651-01 Control of protein metabolism in heart muscle
R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
** R01HL-22685-01 Drugs and excitation-contraction coupling in heart (animals)
R01HL-22813-01 Palmitylcarnitine inhibition of ion pumps in ischemia (dogs)
** R01HL-22828-01 Adenosine and catecholamine interaction in the heart (rats)
** R01HL-22917-01 Microvascular pressures in the intact beating heart (rabbits)
R23HL-22959-01 Heart development in inherited cardiomyopathy (hamsters)
** R01HL-23128-01 Cardiac contractility--Ischemia and hypoxia (rabbits, rats)
R01HL-23161-01 0001 Biology of myocardial ischemia - Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)
R01HL-23161-01 0002 Biology of myocardial ischemia - Palmitylcarnitine inhibition of ion pumps in myocardial ischemia (dog, sheep)
R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
R01HL-23624-01 Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs)
R01HL-23980-01 Effects of digoxin therapy in newborn and adult sheep
** R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

HEART FUNCTION, HEART MOTION

P01HL-04664-18 0004 Cardiovascular and lung dynamics - X-ray cross section imaging of the circulation (dogs)
** P01HL-04664-18 0011 Cardiovascular and lung dynamics - Detection of abnormal segments of the human ventricle by measure of asynergy
P01HL-04664-18 0012 Cardiovascular and lung dynamics - Quantitative single plane left ventricular angiography (human)
P01HL-04664-18 0013 Cardiovascular and lung dynamics - Ventricular function in coronary disease using NTG and ventriculograms (human)
** P01HL-04664-18 0014 Cardiovascular and lung dynamics - Clinical application of computer analysis of ventricular wall motion
P01HL-04664-18 0015 Cardiovascular and lung dynamics - Computer system for the cardiovascular laboratory
P01HL-06285-18 0157 Cardiovascular-respiratory physiology and biochemistry - Left ventricle outflow impedance analysis (human)
P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
P01HL-06308-18 0012 Mechanisms and therapy of circulatory disease - Echocardiographic evaluation of hemodynamics of arrhythmia (human)
P01HL-06308-18 0029 Mechanisms and therapy of circulatory disease - Characterization of the patient with recurrent ventricular arrhythmias
P01HL-06308-18 0042 Mechanisms and therapy of circulatory disease - Echocardiographic assessment of arrhythmias--Myocardial tissue type (human, dogs)
P01HL-06308-18 0043 Mechanisms and therapy of circulatory disease - Exercise and echocardiographic examining techniques (human)
P01HL-07293-17 0041 Non-invasive cardiovascular measurements - Ventricular volumes and dimensions (human)
P01HL-07293-17 0043 Non-invasive cardiovascular measurements - ECHO-Doppler instrumentation for cardiac measurements (human)
P01HL-07293-17 0047 Non-invasive cardiovascular measurements - Cardiac scanner system software
P01HL-07293-17 0053 Non-invasive cardiovascular measurements - Clinical evaluation of cardiac dimensions using the duplex scanner (human)
P01HL-11307-12 0003 Biophysical studies in pediatric cardiology - Cellular biophysics (animals)
P01HL-11310-12 0080 Mechanisms of cardiovascular disease - Metabolism of the hypertrophied myocardium (human)
** P01HL-11310-12 0081 Mechanisms of cardiovascular disease - Analysis of regional left ventricular function (human)
P01HL-12373-10 0001 Cardiopulmonary physiology and pathophysiology - Mechanics of myocardial contraction (dogs, rats, swine)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
P01HL-13108-09 0023 Clinical heart transplantation - Adaptive mechanisms of the denervated heart (human)
P01HL-13737-07 0038 Assisted circulation - Distinguishing the ischemic ventricle from scarred ventricle by balloon pumping
R01HL-15016-07 New concepts in cardiac ultrasound technology (human)
** P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Dynamics of ischemic heart disease (human, dog)
P60HL-17269-04 0027 National heart and blood vessel research and demonstration center - Non-invasive evaluation of cardiac function--Ischemic heart disease (human, dog)
R01HL-17532-04 Infarct size--ECG, angio, path, correlation in dogs
P50HL-17646-04 0010 Study of ischemic heart disease - Compliance in ischemic myocardium--Altered cardiac performance (human, dogs)
P50HL-17648-04 0004 Study of ischemic heart disease - Radionuclide imaging studies (human, pig)
** P50HL-17648-04 0006 Study of ischemic heart disease - Ventricular performance and myocardial perfusion in obstructive coronary disease
P50HL-17648-04 0021 Study of ischemic heart disease - Biventricular contractile responses to acute myocardial infarction (mammals)
P50HL-17648-04 0034 Study of ischemic heart disease - Data management--Hemodynamic data
P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
P50HL-17669-04 0006 Ischemic heart disease center (SCDR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
P50HL-17669-04 0009 Ischemic heart disease center (SCDR) - Infarct volume--99Tc stannous pyrophosphate myocardial scintigrams (dogs, human)
P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
P50HL-17670-04 0014 Study of ischemic heart disease - Real time ultrasound imaging in ischemic heart disease (human, dog)
P50HL-17670-04 0020 Study of ischemic heart disease - Radionuclide evaluation of coronary artery disease (human, dog)
P50HL-17682-04 0003 Study of ischemic heart disease - Effects of myocardial revascularization in man
P50HL-17682-04 0005 Study of ischemic heart disease - Regional myocardial perfusion deficits and segmental contraction disorders in man
P50HL-17682-04 0013 Study of ischemic heart disease - Chronic ischemic heart disease--Myocardial function and metabolism (dogs, swine)
R01HL-19391-03 Dynamic determinants of left ventricular filling (dogs)
M R01HL-19451-03 Functional characteristics of the left heart
** R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
R01HL-20872-02 Multidimensional echo imaging of the ischemic heart
** R01HL-20895-03 0005 Cineangiographic studies of cardiovascular system - Computerized axial tomography--Cardiac wall motion and infarction (dogs)
R01HL-21182-02 Active tension and shortening in cardiac hypertrophy (rabbits)
** R23HL-21197-02 Right ventricular contraction and relaxation (dogs)
R23HL-21253-01 Anatomical models in computer-aided image analysis
** R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
R23HL-21325-02 Sarcomere kinematics in cardiac contraction (rats, rabbits)
R01HL-21684-02 0001 Radionuclide infarct sizing and therapy evaluation - Evaluating preservation of ischemic myocardium by radioisotope methods (dog)
** R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
R01HL-21710-01 Electrocardiographic methods of quantifying infarct size (human, dogs)
R01HL-21785-01 Left ventricular wall motion analysis
R01HL-21793-02 Functional infarct size by gated radioangiography (human, dogs)
R23HL-22787-01 Cardiac volume by biplane echocardiography (human)
** R01HL-22917-01 Microvascular pressures in the intact beating heart (rabbits)
N01HV-62960-00 Techniques to protect ischemic myocardium and minimize infant size (human)

HEART FUNCTION, HEART RATE

SEE ALSO CARDIOVASCULAR FUNCTION, VASODILATION, PULSE PRESSURE WAVES
SEE ALSO HEART DISORDERS, ARRHYTHMIA, BRADYCARDIA
SEE ALSO HEART DISORDERS, ARRHYTHMIA, TACHYCARDIA
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
R01HL-05883-18 0008 Reflex control of resistance and capacitance vessels - Oxygen consumption of the chronically denervated dog heart
P01HL-06285-18 0156 Cardiovascular-respiratory physiology and biochemistry - Myocardial performance following revascularization (human)
P01HL-06285-18 0158 Cardiovascular-respiratory physiology and biochemistry - Load on myocardial contractility (dogs)
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
P01HL-06308-18 0029 Mechanisms and therapy of circulatory disease - Characterization of the patient with recurrent ventricular arrhythmias
P01HL-06308-18 0035 Mechanisms and therapy of circulatory disease - Mechanisms for electrophysiological changes in myocardial infarction (dogs)
R01HL-07575-15 Analysis of time-coherent cardiovascular data
P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
P01HL-07896-15 0061 Environmental biomedical research program - Oxygen cost of breathing during graded exercise (human)
P01HL-08682-15 0015 Regulation of the cardiovascular system - Projection of autonomic nerves onto the heart (dog)

(contd)

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**Oriented significantly to above subject.

M Grant hassubprojectsdescribing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-08682-15 0016 Regulation of the cardiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)
P01HL-08682-15 0017 Regulation of the cardiovascular system - Neurally induced cardiac dysrhythmias (dog)
R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
R01HL-09711-13 Instantaneous blood flow in ascending aorta (human, dogs)
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
P01HL-10539-12 0064 Pathophysiology of circulation - Exercise physiology and pathophysiology (human)
P01HL-10539-12 0070 Pathophysiology of circulation - Effects of hypertension on myocardial blood flow after coronary occlusion (dogs)
R01HL-10834-09 Fetal and neonatal pulmonary circulation (goats)
** R01HL-10951-11 Neural control of the heart (dogs, rats)
P01HL-11307-12 0002 Biophysical studies in pediatric cardiology - Cardiac extracellular electrophysiology (human, dog, chimpanzee)
P01HL-11310-12 0059 Mechanisms of cardiovascular disease - Contractility--Acute response to diogoxin after heart surgery (children)
P01HL-11310-12 0061 Mechanisms of cardiovascular disease - Computer simulation of transposition of great arteries in infants
P01HL-11310-12 0086 Mechanisms of cardiovascular disease - Mechanics of the intact left ventricle (dogs)
P01HL-11310-12 0092 Mechanisms of cardiovascular disease - Exercise electrophysiology (human)
P01HL-11678-11 0069 Cardiovascular dynamics and their control - Nervous control of the cirulation (dogs)
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
** P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotheropeutic drugs and cardiovascular system (human, rats)
P01HL-12738-10 0132 Physiologic pharmacology and its clinical applications - Coronary occlusions and arrhythmias (dogs)
** P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
P01HL-13108-09 0024 Clinical heart transplantation - Response of denervated heart to stress--Noninvasive (human)
R01HL-13233-08 Cardiorespiratory control in exercise (human)
R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
R01HL-13454-08 Behavioral stress and cardiomyopathy (monkeys, cats)
R01HL-13634-08 Renal hypertension in pregnancy (sheep)
R01HL-13936-06 Microvascular responses in hypertension (human, rats)
P50HL-14164-07 0042 A/S SCOR--Comparative and experimental atherosclerosis - Comparative cardiology laboratory (monkeys)
P50HL-14214-07 0029 Newborn lung center for hyaline membrane disease - The diving reflex--Perinatal asphyxia, pulmonary ischemia and HMO (sheep)
P01HL-14388-07 0184 Regulation of the circulation in pathological states - Vestibular reflexes in control of circulation (human)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
P01HL-14414-07 0015 Environmental influences on cardiorespiratory and cellular functions - Control of the cardiovascular system (dogs)
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
** P01HL-15194-07 0023 Pathophysiology of cardiopulmonary dysfunction - Oistribution of ventilation--Oiffusion and cardiogenic agitation (dogs)
R01HL-15444-06 Neonatal development of adrenergic receptor mechanisms (pigs)
R01HL-15758-06 Catecholamine release in the heart (dogs)
R01HL-15888-05 Comparative stereology of the myocardium (birds, mammals)
R01HL-15983-04 Regional myocardial blood flow (dogs)
** R01HL-16240-05 The cardiac histamine receptor (rabbits, guinea pigs)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)
P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Oynamics of ischemic heart disease (human, dog)
R01HL-17341-03 Practical total synthesis of prostaglandins
R01HL-17578-04 Exercise performance in children with heart disease
P50HL-17648-04 0018 Study of ischemic heart disease - Myocardial damage--Infarction vectors recalled by premature atrial stimulation
P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R01HL-17993-04 0006 Ventricular dynamics from surgically inserted markers - Atrial pacing in transplant patients
R01HL-17993-04 0008 Ventricular dynamics from surgically inserted markers - Exercise after coronary bypass (human)
R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)
R01HL-18235-03 Cardiovascular fitness and other risk factors (human)
R01HL-18454-03 Maximal exercise testing in hyperlipidemic children
P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)
P01HL-18974-03 0006 Experimental neurogenic hypertension program - Model of sustained arterial hypertension (cats)
P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)
** R01HL-19076-03 Vagal control of heart rate--A biophysical model (rabbits)
R01HL-19256-03 Arterial baroreceptors in cardiovascular control (dogs)
R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
R01HL-19391-03 Oynamic determinants of left ventricular filling (dogs)
R01HL-19398-03 Regional conduction abnormalities and arrhythmias (dogs)
R01HL-19425-03 Cardiac function in hypertrophy (dog)
R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
R01HL-19680-01 Cardiac correlates of behavioral stress in animals (dog)
P01HL-19717-02 0008 Response of the lung to injury - Experimental models of lung disease
R01HL-19858-03 UMMC--Blood pressure precursors and consequences (human)
** R01HL-19864-03 0003 Blood pressure of children and young adults - Heart rate and blood pressure--Consistency in infancy (human)
R01HL-20347-02 Bolus-response measurement of lung function (human)
R01HL-20476-03 Effects of diabetes on cardiac performance (rat)
R01HL-20484-03 Effects of diabetes on cardiac function and metabolism (rats)
R01HL-20572-02 0001 Hemodynamic relations to metabolism in hypertension - Hemodynamic and myocardial functional studies in the SHR (rat)
R01HL-20598-03 The coronary vascular response to ischemia (dogs, pigs)
R01HL-20632-02 An optimal fetal heart monitor (human)
R01HL-20766-02 Control of circulation in heat stress (baboons)
R01HL-20793-02 Phospholipids and cardiac receptor function
** R01HL-20864-01 Postnatal maturation of cardiovascular regulatory system (minipig)
R23HL-21051-02 Adrenergic receptors and the adenylate cyclase system (frog RBC)
** R01HL-21145-02 Response of atria to hyperosmolality--Mechanisms (rabbits)
R23HL-21197-02 Right ventricular contraction and relaxation (dogs)
** R01HL-21426-02 Learned heart rate control (human)
R01HL-21451-01 Control of circulation during heat stress and fever (baboon)
R01HL-21482-01 Cardiac function and metabolism in diabetes (rats)
R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)
R01HL-21578-01 Effect of exercise upon the hypertensive adolescent
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
R01HL-21893-01 Blood volume distribution in hypertension (human)
R23HL-21914-01 Studies of vasomotor control (rats)
R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)
R01HL-22032-01 Cardiovascular events in hypertensives (human)
R01HL-22154-01 Cardiac adaptation to physical training (dog)
R01HL-22201-01 Pharmacology and chemistry of nudibranch toxins (guinea pigs, rats, mice)
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
R23HL-22245-02 Functional characteristics of atrial receptors (rats)
R01HL-22296-01 Autonomic mechanisms in man
R01HL-22418-01 Neural control of cardio-respiratory function (cats)
** R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
R01HL-22512-01 Ultrasonic instrumentation for cardiovascular studies
R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)
R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
R23HL-22959-01 Heart development in inherited cardiomyopathy (hamsters)
R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)

HEART FUNCTION, HEART RHYTHM

SEE ALSO HEART OISOROERS, ARRHYTHMIA
R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
** R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
P01HL-08682-15 0017 Regulation of the cardiovascular system - Neurally induced cardiac dysrhythmias (dog)
** R01HL-09283-14 Pharmacology of molluscan hearts (also rabbits)
P01HL-11310-12 0059 Mechanisms of cardiovascular disease - Contractility--Acute response to diogoxin after heart surgery (children)
P01HL-11310-12 0079 Mechanisms of cardiovascular disease - Electrophysiological studies of complete heart block (human)
P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
P01HL-11310-12 0092 Mechanisms of cardiovascular disease - Exercise electrophysiology (human)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
R01HL-12486-10 Structure-function correlation in the atrium (rabbits)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Oevelopmental electrophysiology and pharmacology (human, animals)
P01HL-12738-10 0110 Physiologic pharmacology and its clinical applications - Physiology and pharmacology of arrhythmias (dogs)
P01HL-12738-10 0132 Physiologic pharmacology and its clinical applications - Coronary occlusions and arrhythmias (dogs)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
P01HL-13480-09 0026 Cardiac electrophysiology - Neural influences on cardiac electrophysiology and contraction (dog, cat)
** R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
** R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
** R01HL-16135-05 Mechanisms of cardiac autorhythmicity (dogs, bats)
R01HL-17452-04 Oepolarization induced cardiac automaticity (human, animals)
** P50HL-17646-04 0016 Study of ischemic heart disease - Humoral factors in ischemic heart rhythm, mechanical performance (dog, rabbit)
** P50HL-17648-04 0018 Study of ischemic heart disease - Myocardial damage--Infarction vectors recalled by premature atrial stimulation
P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
P50HL-17667-04 0029 Study of ischemic heart disease - Computer diagnosis of cardiac arrhythmias after open heart surgery (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P50HL-17667-04 0031 Study of ischamic haart diseasa - Pathophysiology in ischamic haart diseasa (dog, cat, rabbit, monkay)
** R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
R01HL-19782-02 Pharmacologic studies on tha ischemic haart (dogs)
** R01HL-22750-01 Oigoxin in heart failure with sinus rhythm (human)
** R01HL-23599-01 Mechanisms of ischemic rhythm disordars (dogs)

HEART FUNCTION, HEART SOUNDS

R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)

HEART FUNCTION, INTRACARDIAC PRESSURE

R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
P01HL-04664-18 0013 Cardiovascular and lung dynamics - Ventricular function in coronary disease using NTG and ventriculograms (human)
P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
P01HL-06285-18 0157 Cardiovascular-respiratory physiology and biochemistry - Left ventricle outflow impedance analysis (human)
P01HL-06285-18 0158 Cardiovascular-respiratory physiology and biochemistry - Load on myocardial contractility (dogs)
P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
P01HL-06308-18 0012 Mechanisms and therapy of circulatory disease - Echocardiographic evaluation of hemodynamics of arrhythmia (human)
** P01HL-06312-17 0041 Surgical cardiology - A servomechanism for left ventricular assist (human, dogs, sheep)
P01HL-06664-17 0034 Cardiopulmonary function in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
P01HL-06835-17 0041 Cardiovascular disease - Cardiac performance in rats with renal hypertension
P01HL-06835-17 0042 Cardiovascular disease - Myocardial hypertrophy due to renal hypertension (rats)
** P01HL-06835-17 0043 Cardiovascular disease - Left atrial receptor activity by the sympathetic nervous system (dogs)
** P01HL-06835-17 0052 Cardiovascular disease - Aortic distensibility (human)
P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation of renal function (dogs)
P01HL-10342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
P01HL-10539-12 0069 Pathophysiology of circulation - Ventricular compliance and mechanics in intact ventricles (human)
** P01HL-11310-12 0053 Mechanisms of cardiovascular disease - Ventricular pressure-volume after cardipulmonary bypass (dogs)
** P01HL-11310-12 0054 Mechanisms of cardiovascular disease - Mathematical model of ventricular pressure-volume (human, dogs)
** P01HL-11310-12 0055 Mechanisms of cardiovascular disease - Ventricular pressure-volume after intracardiac surgery (human)
** P01HL-11310-12 0057 Mechanisms of cardiovascular disease - Blood pressure reduction after heart surgery in adults (human)
P01HL-11310-12 0058 Mechanisms of cardiovascular disease - Dynamic response to vasodilating agents postoperatively (human)
P01HL-11310-12 0060 Mechanisms of cardiovascular disease - Effect of left atrium on the circulation--Simulation
P01HL-11310-12 0061 Mechanisms of cardiovascular disease - Computer simulation of transposition of great arteries in infants
P01HL-11310-12 0064 Mechanisms of cardiovascular disease - Extracardiac anatomical correction of transposition of great arteries (puppies)
P01HL-11310-12 0076 Mechanisms of cardiovascular disease - Tratment of depressed cardiac output following heart surgery (children, puppies)
P01HL-11310-12 0080 Mechanisms of cardiovascular disease - Metabolism of the hypertrophied myocardium (human)
P01HL-11310-12 0082 Mechanisms of cardiovascular disease - Myocardial function in adult congenital heart disease (human)
P01HL-11310-12 0084 Mechanisms ot cardiovascular disease - Evaluation of cardiac function in chronic renal failure (human)
P01HL-11310-12 0086 Mechanisms of cardiovascular disease - Mechanics of the intact left vantricle (dogs)
P01HL-11414-11 0034 Thrombosis and atherosclerosis program - Servo simulation--Experimental myocardial infarction (dogs)
P01HL-11678-11 0020 Cardiovascular dynamics and their control - Circulatory and pulmonary fluid dynamics during pulmonary edema
R01HL-11876-11 Regional myocardial blood flow and metabolism (dogs, swine)
P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Oeterminants of performance of the whole heart (dogs)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
** R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
P01HL-12738-10 0130 Physiologic pharmacology and its clinical applications - Compatibility enhancement during cardiac allografting (dogs)
** P01HL-13108-09 0022 Clinical heart transplantation - Studies on cardiac receptors (human)
P01HL-13108-09 0023 Clinical heart transplantation - Adaptive mechanisms of the denervated heart (human)
P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and evaluation of lett ventricular bypass pumps (human, cattle)
P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
P01HL-13737-07 0009 Assisted circulation - Analytical models
P01HL-13737-07 0036 Assisted circulation - Assessment of infarct size from hemodynamic measurements
P50HL-14187-07 0005 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary hypertension and cardiac function (dogs, human)
R01HL-14529-07 Systems analysis of baroreflex (dogs)
R01HL-14545-06 Mechanics of compensatory ventricular hypertrophy (dogs)
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
** R01HL-14903-07 A new index of cardiac contractility (human, dogs, baboons)
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
** P01HL-15194-07 0019 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, bypass grafts and diastolic driving pressure (human, dogs)
R01HL-15444-06 Neonatal development of adrenergic receptor mechanisms (pigs)
R01HL-15694-06 Pulmonary factors in circulatory regulation
R01HL-15983-04 Regional myocardial blood flow (dogs)
R01HL-16292-05 0002 Surgery and non-obstructive coronary insufficiency - Effects of hypothermia during cardiopulmonary bypass (dogs)
** R01HL-16292-05 0017 Surgery and non-obstructive coronary insufficiency - Cardiopulmonary resuscitation (human)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
** R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-17459-03 Myocardial ischemia (dogs)
** P50HL-17646-04 0010 Study of ischemic heart disease - Compliance in ischemic myocardium--Altered cardiac performance (human, dogs)
P50HL-17646-04 0013 Study of ischemic heart disease - Maintenance of myocardial vascular integrity after revascularization (dogs)
P50HL-17648-04 0006 Study of ischemic heart disease - Ventricular performance and myocardial perfusion in obstructive coronary disease
P50HL-17651-04 0023 Ischemic heart disease specialized center of research - Development of multipurpose catheter for monitoring and electronic pacing
P50HL-17655-04 0003 Study of ischemic heart disease - Cardiopulmonary resuscitation (human, dog)
P50HL-17669-04 0008 Ischemic heart disease center (SCOR) - Segmental ventricular dysfunction during stress-induced ischemia (dog, human)
P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
P50HL-17682-04 0014 Study of ischemic heart disease - Myocardial ischemia--Instrumentation and technique (dogs, baboons)
P50HL-17682-04 0015 Study of ischemic heart disease - Acute myocardial ischemia and infarction and their reversibility (dogs, baboons)
R01HL-18024-03 Regional myocardial flow and tunction relationships (dogs)
R01HL-18084-03 Artificial heart and related problems (calves)
** P01HL-18575-03 0006 Mechanisms ot vascular changes in hypertonsion - Evaluation of arterial complianca in hypertension (human, pigs)
** R01HL-18749-03 Ventricular mechanics in the overloaded heart (dogs)
R01HI-18912-03 Mechanics of heart muscle contraction (cats, dogs)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
** R01HL-19089-03 Diastolic properties ot the left ventricle (human, dogs)
R01HL-19135-04 Heterogeneity of regional myocardial blood flow (dogs)
R01HL-19225-02 0003 Types and mechanims of pulmonary hypertension - Cardiopulmonary tunction in pigs and rats
R01HL-19246-03 Regression ot cardiac hypertrophy--Myocardial and renal (human)
R01HL-19257-03 Cardiovascular adjustment to behavioral stress (dog)
R01HL-19425-03 Cardiac function in hypertrophy (dog)
M R01HL-19451-03 Functional characteristics of the left heart
R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
R01HL-19460-03 Mechanics of the papillary muscle and the left ventricle (cats, rabbits)
R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
R01HL-20484-03 Effects of diabetes on cardiac function and metabolism (rats)
P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
P01HL-20552-02 0003 The development and regression of cardiac hypertrophy - Muscle mechanics of the hypertrophied left ventricle (rats)
P01HL-20552-02 0004 The development and regression of cardiac hypertrophy - Ventricular function in experimentally induced hypertrophy (hogs, sheep, baboons)
R01HL-20572-02 0001 Hemodynamic relations to metabolism in hypertension - Hemodynamic and myocardial functional studies in the SHR (rat)
R01HL-20612-02 Chronic animal model of pulmonary vascular injury (dogs)
R01HL-20630-03 Oevelopment of a pulsed Ooppler velocity detector (human, animals)
R01HL-20690-02 Pulmonary hemodynamics in lung edema during PEEP (dogs)
R23HL-21197-02 Right ventricular contraction and relaxation (dogs)
R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
R01HL-21425-02 Servo-simulated compliance changes--A reversible MI (dogs)
R01HL-21452-02 Pulmonary capillary filtration in myocardial ishemia (dogs)
R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
R01HL-21482-01 Cardiac function and metabolism in diabetes (rats)
R23HL-21842-01 Control of sugar entry in normal and diabetic heart (rats)
R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
R01HL-21893-01 Blood volume distribution in hypertension (human)
R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)
R01HL-22329-01 Active prosthetic myocardium--Effects on LV function (dogs)
R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)
** R01HL-22917-01 Microvascular pressures in the intact beating heart (rabbits)
R23HL-22933-01 Transvascular fluid and protein exchange in the lung (sheep)
R01HL-22977-01 Role ot vasoconstrictor mechanisms in heart failure (human, dogs)
R01HL-23171-01 Coronary collateral circulation in myocardial ischemia (dog, pig, rat, human)
R01HL-23224-01 Hypoxia and pulmonary vascular smooth muscle (rat, cat)
R01HL-23653-01 Protection of the ischemic myocardium (dogs)
N01HV-72975-02 Energy converter for left ventrical assist devices (calves)

HEART FUNCTION, INTRACARDIAC VOLUME

P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
R01HL-06143-18 Response ot the totally denervated heart to exercise (dogs)
P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-06285-18 0157 Cardiovascular-respiratory physiology and biochemistry - Left ventricle outflow impedance analysis (human)
P01HL-06285-18 0158 Cardiovascular-respiratory physiology and biochemistry - Load on myocardial contractility (dogs)
P01HL-06296-18 0003 Cardiovascular and pulmonary adaptation to stress - Human exercise studies (human, dogs)
P01HL-06308-18 0012 Mechanisms and therapy of circulatory disease - Echocardiographic evaluation of hemodynamics of arrhythmia (human)
P01HL-06664-17 0034 Cardiopulmonary function in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
** P01HL-07293-17 0041 Non-invasive cardiovascular measurements - Ventricular volumes and dimensions (human)
** P01HL-07293-17 0042 Non-invasive cardiovascular measurements - Ventricular imaging software (human)
P01HL-07293-17 0045 Non-invasive cardiovascular measurements - Cardiac scanner transducer position locating systems (human)
P01HL-07293-17 0047 Non-invasive cardiovascular measurements - Cardiac scanner system software
P01HL-07293-17 0050 Non-invasive cardiovascular measurements - Cardiac dimensions measurements engineering evaluation and error analysis
P01HL-07293-17 0051 Non-invasive cardiovascular measurements - Physiologic evaluation of duplex scanner (dogs)
P01HL-07293-17 0053 Non-invasive cardiovascular measurements - Clinical evaluation of cardiac dimensions using the duplex scanner (human)
P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
** R01HL-10330-11 Physiological mechanics of the heart and arteries (dogs, rabbits, horses)
P01HL-10342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
P01HL-10436-13 0006 A multidisciplinary study of congenital heart disease - Ventricular blood pumps and valves (human, cattle)
P01HL-10539-12 0069 Pathophysiology of circulation - Ventricular compliance and mechanics in intact ventricles (human)
** P01HL-11310-12 0053 Mechanisms of cardiovascular disease - Ventricular pressure-volume after cardipulmonary bypass (dogs)
** P01HL-11310-12 0054 Mechanisms of cardiovascular disease - Mathematical model of ventricular pressure-volume (human, dogs)
** P01HL-11310-12 0055 Mechanisms of cardiovascular disease - Ventricular pressure-volume after intracardiac surgery (human)
P01HL-11310-12 0061 Mechanisms of cardiovascular disease - Computer simulation of transposition of great arteries in infants
P01HL-11310-12 0064 Mechanisms of cardiovascular disease - Extracardiac anatomical correction of transposition of great arteries (puppies)
P01HL-11310-12 0081 Mechanisms of cardiovascular disease - Analysis of regional left ventricular function (human)
P01HL-11310-12 0082 Mechanisms of cardiovascular disease - Myocardial function in adult congenital heart disease (human)
** P01HL-11310-12 0083 Mechanisms of cardiovascular disease - Ventricular volume and hemodynamics in adult congenital heart disease
P01HL-11310-12 0084 Mechanisms of cardiovascular disease - Evaluation of cardiac function in chronic renal failure (human)
P01HL-11310-12 0086 Mechanisms of cardiovascular disease - Mechanics of the intact left ventricle (dogs)
P01HL-12373-10 0001 Cardiopulmonary physiology and pathophysiology - Mechanics of myocardial contraction (dogs, rats, swine)
P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Determinants of performance of the whole heart (dogs)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
** P01HL-12373-10 0019 Cardiopulmonary physiology and pathophysiology - Free ranging animal facility
** R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
P01HL-12738-10 0130 Physiologic pharmacology and its clinical applications - Compatibility enhancement during cardiac allografting (dogs)
** P01HL-13108-09 0022 Clinical heart transplantation - Studies on cardiac receptors (human)
** P01HL-13108-09 0023 Clinical heart transplantation - Adaptive mechanisms of the denervated heart (human)
P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
R01HL-13623-08 Atrial receptors (dogs)
P01HL-13737-07 0009 Assisted circulation - Analytical models
P50HL-14187-07 0005 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary hypertension and cardiac function (dogs, human)
R01HL-14529-07 Systems analysis of baroreflex (dogs)
R01HL-14545-06 Mechanics of compensatory ventricular hypertrophy (dogs)
R01HL-14645-07 Blood flow measurement by ultrasonic catheter tip methods (human, dogs)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
** R01HL-14903-07 A new index of cardiac contractility (human, dogs, baboons)
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
P01HL-15194-07 0001 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, venous drainage and collateral flow (human, dogs)
R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
R01HL-16292-05 0002 Surgery and non-obstructive coronary insufficiency - Effects of hypothermia during cardiopulmonary bypass (dogs)
** R01HL-16292-05 0019 Surgery and non-obstructive coronary insufficiency - Distortion of subendocardial vessels in infant hearts (dogs)
R01HL-16484-04 Radiographic ventriculometry for coronary heart disease (human)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
P60HL-17269-04 0027 National heart and blood vessel research and demonstration center - Non-invasive evaluation of cardiac function--Ischemic heart disease (human, dog)
R01HL-17459-03 Myocardial ischemia (dogs)
** P50HL-17646-04 0010 Study of ischemic heart disease - Compliance in ischemic myocardium--Altered cardiac performance (human, dogs)
P50HL-17648-04 0020 Study of ischemic heart disease - Core pathology laboratory--Ischemic heart disease (human, animal)
P50HL-17648-04 0034 Study of ischemic heart disease - Data management--Hemodynamic data
P50HL-17655-04 0003 Study of ischemic heart disease - Cardiopulmonary resuscitation (human, dog)
P50HL-17655-04 0014 Study of ischemic heart disease - Blood flow and gas tension in myocardial ischemia and infarction (dog, monkey)
P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
P50HL-17670-04 0014 Study of ischemic heart disease - Real time ultrasound imaging in ischemic heart disease (human, dog)
P50HL-17670-04 0015 Study of ischemic heart disease - Radionuclide studies of myocardial ischemia (human)
R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
R01HL-17993-04 0005 Ventricular dynamics from surgically inserted markers - Cardiac dimensions and dynamic after mitral, aortic valve surgery (human)
R01HL-17993-04 0008 Ventricular dynamics from surgically inserted markers - Exercise after coronary bypass (human)
R01HL-18338-04 Computer feedback study of cardiac muscle mechanics (rats)
** R01HL-18749-03 Ventricular mechanics in the overloaded heart (dogs)
R01HL-18912-03 Mechanics of heart muscle contraction (cats, dogs)
** R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
R01HL-19246-03 Regression of cardiac hypertrophy--Myocardial and renal (human)
** R01HL-19391-03 Dynamic determinants of left ventricular filling (dogs)
M R01HL-19451-03 Functional characteristics of the left heart
** R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL-19460-03 Mechanics of the papillary muscle and the left ventricle (cats, rabbits)
P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
P01HL-20552-02 0003 The development and regression of cardiac hypertrophy - Muscle mechanics of the hypertrophied left ventricle (rats)
P01HL-20552-02 0004 The development and regression of cardiac hypertrophy - Ventricular function in experimentally induced hypertrophy (hogs, sheep, baboons)
R01HL-20572-02 0001 Hemodynamic relations to metabolism in hypertension - Hemodynamic and myocardial functional studies in the SHR (rat)
R01HL-20629-02 Catheter ventricular defibrillation studies (dogs)
** R01HL-20895-03 0011 Cineangiographic studies of cardiovascular system - Ventricular hypertrophy and preoutflow contraction (human, dogs)
R23HL-21197-02 Right ventricular contraction and relaxation (dogs)
R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
R01HL-21425-02 Servo-simulated compliance changes--A reversible MI (dogs)
R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
R01HL-21482-01 Cardiac function and metabolism in diabetes (rats)
R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
R01HL-21793-02 Functional infarct size by gated radioangiography (human, dogs)
R01HL-21893-01 Blood volume distribution in hypertension (human)
R01HL-22750-01 Digoxin in heart failure with sinus rhythm (human)
** R23HL-22787-01 Cardiac volume by biplane echocardiography (human)
** R01HL-22894-01 Two dimensional ultrasound and cardiac surgery (human, dogs)
R01HL-22917-01 Microvascular pressures in the intact beating heart (rabbits)
R01HL-23653-01 Protection of the ischemic myocardium (dogs)

HEART INNERVATION

SEE NERVOUS SYSTEM AUTONOMIC, HEART INNERVATION

HEART LUNG AND BLOOD RESEARCH REVIEW COMMITTEES

M P01HL-03174-23 Mechanisms of acute vascular reaction to injury
M P01HL-04664-18 Cardiovascular and lung dynamics
M P01HL-06285-18 Cardiovascular-respiratory physiology and biochemistry
M P01HL-06296-18 Cardiovascular and pulmonary adaptation to stress
M P01HL-06308-18 Mechanisms and therapy of circulatory disease
M P01HL-06312-17 Surgical cardiology
M P01HL-06314-17 Immunologic mechanisms in cardiovascular disease
M P01HL-06350-17 Hemostasis research program project
M P01HL-06370-17 Cardiopulmonary and renal pathology research center
M P01HL-06664-17 Cardiopulmonary function in remediable vascular disease
M P01HL-06835-17 Cardiovascular disease
M P01HL-07896-15 Environmental biomedical research program
M P01HL-08214-15 Chemical and biological properties of lipids
M P01HL-08682-15 Regulation of the cardiovascular system
M P01HL-08805-15 Regulation of ventilation and pulmonary circulation
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
M P01HL-08974-14 Natural and experimental atherosclerosis
M P01HL-09011-15 A research and resource program in blood
M P01HL-10342-13 The integrated function of respiration and circulation
M P01HL-10436-13 A multidisciplinary study of congenital heart disease
M P01HL-10539-12 Pathophysiology of circulation
M P01HL-11307-12 Biophysical studies in pediatric cardiology
M P01HL-11310-12 Mechanisms of cardiovascular disease
M P01HL-11351-12 Cellular and molecular mechanisms of myocardial function
M P01HL-11414-11 Thrombosis and atherosclerosis program
M P01HL-11678-11 Cardiovascular dynamics and their control
M P01HL-12157-11 Functions and mechanisms of cell membrane ion transport
M P01HL-12373-10 Cardiopulmonary physiology and pathophysiology
M P01HL-12738-10 Physiologic pharmacology and its clinical applications
M P01HL-13108-09 Clinical heart transplantation
M P01HL-13262-07 Arterial wall in atherosclerosis
M P01HL-13330-08 Mechanical circulatory support
M P01HL-13480-09 Cardiac electrophysiology
M P01HL-13737-07 Assisted circulation
M P01HL-13738-08 Cardiac assist devices and artificial hearts

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
M P50HL-14136-07 Pulmonary SCOR--Airways obstructive diseases
M P01HL-14388-07 Regulation of the circulation in pathological states
M P01HL-14414-07 Environmental influences on cardiorespiratory and cellular functions
M P01HL-14580-07 Program project in respiratory mechanics
M P01HL-14985-07 Adaptation to hypoxia
M P01HL-15194-07 Pathophysiology of cardiopulmonary dysfunction
M P01HL-15195-04 Program project in biological materials
M P01HL-15265-05 Program on surgical control of the hyperlipidemias
M P01HL-15486-06 Studies on thrombosis
M P01HL-15596-05 Coagulation, fibrinolysis, hemostasis and hepatitis
M P01HL-15832-06 Chemical-structural predispositions to lung injury
M P01HL-15835-06 Study of muscles related to heart disease
M P01HL-16117-05 Ion movements and membranes in cardiovascular control
M P01HL-16118-06 Study of emphysema
M P01HL-16137-05 Alveolar biology
M P01HL-16251-06 Membrane-bound enzymes in heart and other tissues
M P01HL-16387-04 The blood vessel and thrombogenesis
M P01HL-16411-04 Blood systems in coagulation and vessel disease
M P01HL-16607-05 Calcium ion and control of cardiovascular function
M P01HL-16683-04 Function and growth of cardiac and skeletal muscle
M P01HL-16748-05 Cellular and immunological basis of pulmonary diseases
M P01HL-16769-05 Pathobiologic and host defense reactions in the lung
M P01HL-16833-04 Hemoglobin and red cell system in hemoglobinopathies
M P01HL-16851-04 Human red cell membrane in health and disease
M P01HL-16878-05 Control of ventilation in health and disease
M P01HL-16910-05 Regulation of the peripheral circulation
M P01HL-17382-05 Chemical mediators of acute pulmonary disorders
M P01HL-17419-04 Studies on mechanisms of hemostasis
M P01HL-17421-05 Regulation and exchange in the microcirculation
M P01HL-17430-05 Control of coagulation
M P01HL-17731-04 Physiological basis of pulmonary disease
M P01HL-17812-04 Thrombosis and plasma proteins
M P01HL-17813-04 Lung disease and the oxygenation of blood and tissue
M P01HL-17871-04 Kidney, sodium, cardiac output, arterioles and hypertension
M P01HL-18208-04 Center for the study of blood cell rheology
M P50HL-18323-04 SCOR hypertension center
M P01HL-18574-03 Lipoprotein methodology and biomedical applications
M P01HL-18575-03 Mechanisms of vascular changes in hypertension
M P01HL-18576-03 Thrombosis research program project
M P01HL-18577-03 Lipoproteins--Cell surface interactions
M P01HL-18645-03 Biology of the artery wall and atherosclerosis
M P01HL-18646-03 Studies basic to heart transplantation
M P01HL-18708-03 Oxygen, energy and contractility in cardiac tissue
M P01HL-18827-02 Platelet vessel wall interactions in thrombogenesis
M P50HL-19153-02 SCOR--Pulmonary edemas--Etiology, pathogenesis
M P01HL-19242-02 Study of vascular smooth muscle
M P01HL-19259-03 Digoxin-specific antibody in human therapy
M P01HL-19717-02 Response of the lung to injury
M P01HL-19737-02 Cellular and molecular aspects of respiratory physiology
M P01HL-20552-02 The development and regression of cardiac hypertrophy
M P01HL-20581-01 Vascular neuroeffector mechanisms in health and disease
M P01HL-20592-02 Cell biology of cardiac and skeletal muscle
M P01HL-20948-02 Molecular basis of cholesterol metabolism
M P01HL-20984-02 Cellular mechanisms in cardiac hypertrophy
M P01HL-20993-02 Population dynamics of arterial cells in atherogenesis
M P01HL-20994-02 Dynamics of neutrophil elastase in the lung
M P50HL-21006-02 Specialized center of research in arteriosclerosis
M P01HL-21016-02 Sickle cell anemia and other hemoglobinopathies
M P01HL-21584-02 Respiratory mechanics in normal and abnormal states
M P01HL-22602-01 Pathophysiology of the endothelium
M P01HL-22619-01 Cellular mechanisms of heart failure
M P01HL-22633-01 Cellular and molecular biology of lipoprotein metabolism
** R01HL-23201-01 Mechanisms of hypertension (human, rats)

HEART-LUNG BYPASS
SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART-LUNG BYPASS

HEART-LUNG MACHINE
SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART MECHANICAL EXTRACORPOREAL

HEART MASSAGE
SEE HEART RESUSCITATION, HEART MASSAGE

HEART MECHANICAL EXTRACORPOREAL
SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART MECHANICAL EXTRACORPOREAL

HEART MOTION
SEE HEART FUNCTION, HEART MOTION

HEART MURMURS
SEE HEART DISORDERS, VALVULAR

HEART MUSCLE
SEE HEART, MYOCARDIUM

HEART MUSCLE, PAPILLARY
SEE HEART, PAPILLARY MUSCLES

HEART OUTPUT
SEE HEART FUNCTION, CARDIAC OUTPUT

HEART PACEMAKERS
SEE HEART, CONDUCTION SYSTEM, HEART PACEMAKERS

HEART PACEMAKERS ELECTRONIC
** R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation of renal function (dogs)
** P01HL-11310-12 0071 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial flutter (human)
** P01HL-11310-12 0072 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial tachycardia with block (human)
** P01HL-11310-12 0073 Mechanisms of cardiovascular disease - Electrophysiological study of atrial fibrillation (human)
** P01HL-11310-12 0076 Mechanisms of cardiovascular disease - Tratment of depressed cardiac output following heart surgery (children, puppies)
P01HL-11310-12 0077 Mechanisms of cardiovascular disease - Abnormalities of rhythm and conduction following heart surgery (human)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
P01HL-12738-10 0098 Physiologic pharmacology and its clinical applications - Skeletal muscle support of the chronically failing heart (dogs)
P01HL-12738-10 0132 Physiologic pharmacology and its clinical applications - Coronary occlusions and arrhythmias (dogs)
** P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
P01HL-13108-09 0018 Clinical heart transplantation - Electrophysiologic studies of cardiac drugs in the denervated heart
** R01HL-13988-07 Elimination of reoperative cardiac pacemaker surgery (dogs)
R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
** R01HL-15247-05 Extending the life of implanted pacemakers (dogs, human)
R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
P50HL-17648-04 0018 Study of ischemic heart disease - Myocardial damage--Infarction vectors recalled by premature atrial stimulation
P50HL-17651-04 0023 Ischemic heart disease specialized center of research - Development of multipurpose catheter for monitoring and electronic pacing
R01HL-18794-04 Prospective studies of conduction disease (human)
** R01HL-20077-02 External cardiac stimulation with microwave radiation (dogs)
** R01HL-20238-02 Prospective bundle branch block study (human)
R01HL-20597-02 Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits)
** R01HL-21632-02 Development of a transcutaneous power transfer system (cattle)
R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)

HEART PACEMAKERS ELECTRONIC, CAROTID STIMULATORS
P01HL-06285-18 0182 Cardiovascular respiratory physiology and biochemistry Structure and function of vascular chemoreceptors (cats, rats)
P50HL-17648-04 0016 Study of ischemic heart disease Intraventricular conduction--Effect of pacing on conduction and automaticity

HEART PRESERVATION
M P01HL-06312-17 Surgical cardiology
P01HL-13108-09 0001 Clinical heart transplantation Therapy and prognosis (human)
P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
** R01HL-18936-02 Heart preservation and transplantation studies (rat)
** R01HL-20219-02 Cryopreservation of the isolated heart (rats)
** R23HL-22448-01 Modulation of heart graft antigenicity by perfusion (rats)

HEART PROSTHESIS
SEE ALSO HEART PACEMAKERS ELECTRONIC
** P01HL-06312-17 0030 Surgical cardiology - Total artificial heart (calves)
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
** P01HL-10436-13 0006 A multidisciplinary study of congenital heart disease - Ventricular blood pumps and valves (human, cattle)
R01HL-11418-09 Poly-diaminophosphazenes
** R01HL-12307-08 Non-surgical treatment of congenital heart disease (human, dogs)
P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
M P01HL-13330-08 Mechanical circulatory support
** P01HL-13330-08 0031 Mechanical circulatory support - Hemodynamics of cardiac prosthesis
** P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and evaluation of left ventricular bypass pumps (human, cattle)
** P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
** P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
** P01HL-13330-08 0062 Mechanical circulatory support - CORE facilities
** P01HL-13737-07 0024 Assisted circulation - Dynamic prosthetic myocardium (dogs)
P01HL-13737-07 0026 Assisted circulation - Hemostatic mechanism (human, dogs)
** P01HL-13737-07 0033 Assisted circulation - Autologous bioprosthetic grafts for coronary artery bypass surgery (human, dogs)
M P01HL-13738-08 Cardiac assist devices and artificial hearts
** P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
** P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
** P01HL-13738-08 0003 Cardiac assist devices and artificial hearts - Pathophysiological effects of the artificial heart (calves)
** P01HL-13738-08 0004 Cardiac assist devices and artificial hearts - Hematological evaluation of prosthetic materials (calves)
** P01HL-13738-08 0005 Cardiac assist devices and artificial hearts - Development of new materials for artificial heart and assist devices (sheep, dog)
** R01HL-17821-03 Cavitation phenomena near prosthetic devices
** R01HL-18084-03 Artificial heart and related problems (calves)
P01HL-18576-03 0013 Thrombosis research program project - Early warning and monitoring test systems in thrombotic disease (human)
** R01HL-20356-02 Development and evaluation of an artificial heart (calves)
R01HL-21948-01 Capillary, tissue volume and lymph flow in lung edema (sheep, cattle)
** R01HL-22329-01 Active prosthetic myocardium--Effects on LV function (dogs)
R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces
** N01HV-12017-15 Fabrication of grafted hydrogel coatings for plastic heart assist devices
** N01HV-12054-14 Development of intimal linings (human, cattle)
** N01HV-12065-16 Fabrication of implantable artificial heart devices (animals)
N01HV-32913-11 Study electrodeless glow discharge for modifying polymer surface
** N01HV-32959-10 Development of materials for heart assist devices
** N01HV-42914-13 Solenoid left ventricular assist system (cattle)
N01HV-72919-01 Test polymers for circulatory assist divices

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** N01HV-72933-01 Electrical energy transmission technique development (dogs)
** N01HV-72934-01 Oevelopment of a left heart assist blood pumps (human, cattle)
** N01HV-72937-00 Left heart assist blood pumps (calves)
** N01HV-72939-01 Oevelop and evaluate left heart assist blood pumps (human, calves, pigs)
** N01HV-72975-02 Energy converter for left ventrical assist devices (calves)
** N01HV-81388-20 Microfiber substrate for growth of intimal linings in circulatory assist devices

HEART PROSTHESIS, AUXILIARY

SEE ALSO CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART MECHANICAL EXTRACORPOREAL

M P01HL-13737-07 Assisted circulation
** P01HL-13737-07 0002 Assisted circulation - U-shaped mechanical auxiliary ventricle (dogs)
** P01HL-13737-07 0006 Assisted circulation - Portable driving unit for permanent assist devices (dogs)
P01HL-13737-07 0024 Assisted circulation - Dynamic prosthetic myocardium (dogs)
P01HL-13737-07 0027 Assisted circulation - Optimization of cardiac assistance (dogs)
** P01HL-13737-07 0032 Assisted circulation - The dynamic aortic patch (human, dogs)
** N01HV-42960-07 Development and evaluation of cardiac prostheses (calves)
** N01HV-53006-06 Evaluation of model VII left ventricular assist device (human)
** N01HV-53008-07 Left ventricular assist device--Clinical evaluation (human)

HEART PROSTHESIS, AUXILIARY, AORTIC BALLOON PUMPING

R01HL-05875-18 Pathologic metabolic and physiologic studies of heart (human, dogs, cats)
** P01HL-06312-17 0041 Surgical cardiology - A servomechanism for left ventricular assist (human, dogs, sheep)
P01HL-07896-15 0054 Environmental biomedical research program - Myocardial effects of hemorrhagic shock (dogs)
** P01HL-12738-10 0071 Physiologic pharmacology and its clinical applications - IABP patient management in ventricular power failure (human)
** P01HL-12738-10 0092 Physiologic pharmacology and its clinical applications - Subendocardial ischemia following open heart surgery (human)
P01HL-12738-10 0123 Physiologic pharmacology and its clinical applications - Ventricular assistance and preservation (human, dogs)
** P01HL-12738-10 0124 Physiologic pharmacology and its clinical applications - Counterpulsation on myocardial ischemia measured by carbon dioxide tension (dogs)
** P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and evaluation of left ventricular bypass pumps (human, cattle)
** P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
** P01HL-13737-07 0007 Assisted circulation - Oetermination of cardiac status by use of balloon pump (dogs)
** P01HL-13737-07 0008 Assisted circulation - Phase-shift balloon pumping alternate designs
P01HL-13737-07 0009 Assisted circulation - Analytical models
** P01HL-13737-07 0025 Assisted circulation - Oriving system based on quantitative criteria (human, dogs)
** P01HL-13737-07 0026 Assisted circulation - Hemostatic mechanism (human, dogs)
** P01HL-13737-07 0027 Assisted circulation - Optimization of cardiac assistance (dogs)
P01HL-13737-07 0028 Assisted circulation - Clinical studies of intraaortic balloon pumping
** P01HL-13737-07 0029 Assisted circulation - Chronic left ventricular failure (human)
** P01HL-13737-07 0030 Assisted circulation - Myocardial ischemia--Effects of phase-shift balloon pumping (dogs)
** P01HL-13737-07 0031 Assisted circulation - Myocardial ischemia--Biochemical changes (dogs)
** P01HL-13737-07 0034 Assisted circulation - Phasic aortic flow and cardiac output from phasic pressures (dogs)
P01HL-13737-07 0036 Assisted circulation - Assessment of infarct size from hemodynamic measurements
** P01HL-13737-07 0038 Assisted circulation - Oistinguishing the ischemic ventricle from scarred ventricle by balloon pumping
** P01HL-13737-07 0039 Assisted circulation - Computer controlled intraortic balloon pumping
P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
R01HL-14571-05 Myocardial preservation and coronary reperfusion (baboons, dogs)
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
P60HL-17269-04 0029 National heart and blood vessel research and demonstration center - Clinical application of circulatory assistance (human)
** P60HL-17269-04 0030 National heart and blood vessel research and demonstration center - Cardiovascular engineering laboratories (human)
** P50HL-17648-04 0011 Study of ischemic heart disease - Surgical treatment for acute myocardial ischemia (human, dogs)
** P50HL-17665-04 0001 Study of ischemic heart disease - Reduction of acute anterior myocardial infarction--Mechanical circulatory assist
P50HL-17665-04 0003 Study of ischemic heart disease - Quantitation of injury--Acute myocardial infarction complicated by shock (human)
** P50HL-17669-04 0012 Ischemic heart disease center (SCOR) - Circulatory assistance (human, dog)
R01HL-17821-03 Cavitation phenomena near prosthetic devices
R01HL-18190-03 Myocardial blood flow in acute myocardial infarction (human, dogs)
R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
R01HL-20356-02 Development and evaluation of an artificial heart (calves)
** R01HL-20803-02 Intra-aortic balloon pumping (dogs, lambs, cats)
R01HL-21684-02 0001 Radionuclide infarct sizing and therapy evaluation - Evaluating preservation of ischemic myocardium by radioisotope methods (dog)
** R01HL-22274-01 Quantitating in series effects in cardiac arrhythmias (dogs)

HEART PROSTHESIS, VALVES PROSTHETIC

R01HL-05694-20 Functional pathology of cardiovascular disease (human)
P01HL-06312-17 0043 Surgical cardiology - The cylindrical ventricular assist device (dogs)
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
** P01HL-10436-13 0006 A multidisciplinary study of congenital heart disease - Ventricular blood pumps and valves (human, cattle)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
P01HL-12373-10 0020 Cardiopulmonary physiology and pathophysiology - Hospitalization and patient care
P01HL-13330-08 0031 Mechanical circulatory support - Hemodynamics of cardiac prosthesis
P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
P01HL-13330-08 0062 Mechanical circulatory support - CORE facilities
P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
** R01HL-13803-07 Advanced cardiac valvular and vascular prosthesis (dogs, baboons)
P01HL-14388-07 0217 Regulation of the circulation in pathological states - Fluid mechanics of aortic flow (dogs, human)
** R01HL-16461-05 Late results of valve replacement--Computer analysis (human)
R01HL-16935-05 Tissue organization and turnover in the semilunar valve (dogs, rats)
** P60HL-17269-04 0032 National heart and blood vessel research and demonstration center - Clinical circulatory assist device fabrication
R01HL-17821-03 Cavitation phenomena near prosthetic devices
** R01HL-17859-04 Computational methods in cardiac fluid dynamics
** R01HL-17969-04 Function and structure of semilunar valves (dogs)
R01HL-18441-03 Guidelines for polymers acting as elastin substitutes
R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
** R01HL-20037-02 Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle)
** R01HL-20829-02 Fluid mechanics of heart valve prostheses (dogs, human)
R01HL-22627-01 An inhibitor of platelet adhesion to artificial organs (human)
** R01HL-22888-01 Prosthetic valve endocarditis--Etiology and therapy (dogs)

HEART RATE

SEE HEART FUNCTION, HEART RATE

HEART RESUSCITATION

SEE ALSO HEART PACEMAKERS ELECTRONIC

P60HL-17269-04 0036 National heart and blood vessel research and demonstration center - Public education
** P50HL-17655-04 0003 Study of ischemic heart disease - Cardiopulmonary resuscitation (human, dog)
** R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
R01HL-18805-04 0004 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Clinical follow-up and therapy (human)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)

HEART RESUSCITATION, ELECTRIC COUNTERSHOCK

** R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
** R01HL-18040-04 Waveform dependency in defibrillation (calves)
** R01HL-20629-02 Catheter ventricular defibrillation studies (dogs)
** R01HL-21038-01 Electrically induced cardiac EM-histochemical changes (animals)
** R01HL-21674-01 Oevelopment of automatic implanted defibrillator (dogs, cattle)
** R01HL-22699-01 Oefibrillation electrode studies (dogs, swine)

HEART RESUSCITATION, HEART MASSAGE

** P50HL-17655-04 0003 Study of ischemic heart disease - Cardiopulmonary resuscitation (human, dog)

HEART REVASCULARIZATION

** N01HI-72947-01 Coordination center--Coronary intervention
P01HL-06296-18 0003 Cardiovascular and pulmonary adaptation to stress - Human exercise studies (human, dogs)
P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
** R01HL-14571-05 Myocardial preservation and coronary reperfusion (baboons, dogs)
R01HL-16484-04 Radiographic ventriculometry for coronary heart disease (human)
** P50HL-17646-04 0013 Study of ischemic heart disease - Maintenance of myocardial vascular integrity after revascularization (dogs)
P50HL-17665-04 0005 Study of ischemic heart disease - Evaluation of zone of jeopardized myocardium in patients with angina pectoris
P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human)
P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
** R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
R01HL-18460-01 Effects of prolonged hypoperfusion on the myocardium (rabbits)
R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
R01HL-19275-03 Characterization of collateral blood vessels (dogs)
R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-20895-03 0003 Cineangiographic studies of cardiovascular system - Densitometry in coronary stenosis (human)
** R01HL-20895-03 0008 Cineangiographic studies of cardiovascular system - Intercoronary anastomotic circulation--Stenosis and occlusion (dogs)
R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
** R01HL-22005-01 Intermittent retroperfusion of ischemic myocardium (dogs)
** R01HL-22098-01 Is postoperative infarction due to reperfusion injury? (human, dogs)
** R01HL-22759-01 Regional myocardial blood flow during hypothermia (dogs)
** R01HL-22815-01 Regional myocardial function after revascularization (dogs)
** N01HV-32973-12 Coordinating center for collaborative studies on coronary artery surgery
** N01HV-32975-08 Collaborative studies on coronary artery surgery (human)
** N01HV-32976-09 Collaborative studies on coronary artery surgery (human)
** N01HV-32978-08 Collaborative studies on coronary artery surgery
** N01HV-32979-09 Collaborative studies on coronary artery surgery
** N01HV-32980-07 Collaborative studies on coronary artery surgery (human)
** N01HV-32981-10 Collaborative studies on coronary artery surgery (human)
** N01HV-32983-11 Collaborative studies on coronary artery surgery (human)
** N01HV-32984-10 Collaborative studies on coronary artery surgery (human)
** N01HV-32985-11 Collaborative studies on coronary artery surgery (human)

HEART REVASCULARIZATION, CORONARY BYPASS

M P01HL-04664-18 Cardiovascular and lung dynamics
P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-04664-18 0003 Cardiovascular and lung dynamics - Xaray projection image videometry (human, dogs)
P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
P01HL-04664-18 0011 Cardiovascular and lung dynamics - Detection of abnormal segments of the human ventricle by measure of asynergy
P01HL-04664-18 0012 Cardiovascular and lung dynamics - Quantitative single plane left ventricular angiography (human)
P01HL-04664-18 0013 Cardiovascular and lung dynamics - Ventricular function in coronary disease using NTG and ventriculograms (human)
** P01HL-04664-18 0014 Cardiovascular and lung dynamics - Clinical application of computer analysis of ventricular wall motion
** P01HL-06285-18 0156 Cardiovascular-respiratory physiology and biochemistry - Myocardial performance following revascularization (human)
M P01HL-06312-17 Surgical cardiology
** P01HL-06312-17 0013 Surgical cardiology - Aortocoronary vein bypass grafting (human)
** P01HL-06312-17 0015 Surgical cardiology - Internal mammary artery versus saphenous vein for coronary artery bypass (human)
** P01HL-06312-17 0030 Surgical cardiology - Total artificial heart (calves)
P01HL-06312-17 0053 Surgical cardiology - Enzyme pattern following cardiac surgery (human)
P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
** R01HL-09315-15 Coronary insufficiency and myocardial revascularization (human, dogs)
P01HL-11310-12 0057 Mechanisms of cardiovascular disease - Blood pressure reduction after heart surgery in adults (human)
P01HL-11310-12 0081 Mechanisms of cardiovascular disease - Analysis of regional left ventricular function (human)
P01HL-13108-09 0018 Clinical heart transplantation - Electrophysiologic studies of cardiac drugs in the denervated heart
M P01HL-13737-07 Assisted circulation
** P01HL-13737-07 0033 Assisted circulation - Autologous bioprosthetic grafts for coronary artery bypass surgery (human, dogs)
** P01HL-13737-07 0037 Assisted circulation - Clinical measurement of blood flow through aorto-coronary vein bypass graft
** P01HL-13737-07 0038 Assisted circulation - Distinguishing the ischemic ventricle from scarred ventricle by balloon pumping
P01HL-15194-07 0001 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, venous drainage and collateral flow (human, dogs)
P01HL-15194-07 0017 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation and effects of arteriographic lesions on flow (human)
** P01HL-15194-07 0019 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, bypass grafts and diastolic driving pressure (human, dogs)
** R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
R01HL-17246-03 Oxygen uptake at one minute of exercise (human)
P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Dynamics of ischemic heart disease (human, dog)
P60HL-17269-04 0029 National heart and blood vessel research and demonstration center - Clinical application of circulatory assistance (human)
** P50HL-17648-04 0011 Study of ischemic heart disease - Surgical treatment for acute myocardial ischemia (human, dogs)
** P50HL-17648-04 0012 Study of ischemic heart disease - Retrograde coronary venous perfusion--Acute myocardial ischemia
** P50HL-17648-04 0013 Study of ischemic heart disease - Fate of bypassed and bypassing vessels (dogs)
** P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
P50HL-17651-04 0036 Ischemic heart disease specialized center of research - Core facilities--Cardiovascular pathology (human, dog)
** P50HL-17651-04 0044 Ischemic heart disease specialized center of research - Limb blood flow after myocardial revascularization (human)
P50HL-17655-04 0004 Study of ischemic heart disease - Coronary arteriography in survivors of acute myocardial infarction (human)
** P50HL-17655-04 0006 Study of ischemic heart disease - Evaluation of coronary artery bypass graft surgery (human)
** P50HL-17655-04 0009 Study of ischemic heart disease - Random trial of medical and surgical therapy in unstable angina (human)
P50HL-17655-04 0011 Study of ischemic heart disease Core facility-Cardiovascular nuclear medicine (human, dog)
** P50HL-17665-04 0013 Study of ischemic heart disease - National cooperative study in unstable angina pectoris (human)
P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention-Myocardial ischemia in cardiopulmonary bypass (dog)
** P50HL-17665-04 0022 Study of ischemic heart disease - Effect of coronary revascularization on left ventricular function (human)
P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
** P50HL-17667-04 0019 Study of ischemic heart disease - Assessment of long-term results of coronary artery bypass grafting (human)
P50HL-17667-04 0022 Study of ischemic heart disease - Preventing myocardial injury in surgery using cardiopulmonary bypass (human, rat)
** P50HL-17670-04 0006 Study of ischemic heart disease - Assessment of coronary artery hemodynamics and myocardial blood flow (human)
P50HL-17670-04 0008 Study of ischemic heart disease - Surgical treatment of cardiac rhythm disorders (human, dogs)
P50HL 17670-04 0016 Study of ischemic heart disease - Core pathology laboratory (human, dogs, monkeys)
P50HL-17670-04 0017 Study of ischemic heart disease - Core enzymology laboratory (human)
P50HL-17670-04 0020 Study of ischemic heart disease - Radionuclide evaluation of coronary artery disease (human, dog)
** P50HL-17682-04 0003 Study of ischemic heart disease - Effects of myocardial revascularization in man
** P50HL-17682-04 0008 Study of ischemic heart disease - Clinical core unit
R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
** R01HL-17895-04 Myocardial function and metabolism following ischemia (rats)
** R01HL-17993-04 0001 Ventricular dynamics from surgically inserted markers - Effects of aortocoronary bypass graft surgery on ventricular function (human)
** R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
** R01HL-17993-04 0004 Ventricular dynamics from surgically inserted markers - Exercise training following coronary artery bypass graft surgery (human)
** R01HL-17993-04 0007 Ventricular dynamics from surgically inserted markers - Digitalis after coronary artery surgery (human)
** R01HL-17993-04 0008 Ventricular dynamics from surgically inserted markers - Exercise after coronary bypass (human)
** P50HL-18323-04 0046 SCOR hypertension center - Coronary artery bypass surgery--Associated hypertension (human)
R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
R01HL-18783-04 Detection and control of ventricular premature beats (human)
R01HL-18805-04 0003 Sudden cardiac death and the onset of myocardial infarction - Prediction from clinical and laboratory assessments (human)
** R01HL-18907-03 Objective evaluation early after MI and heart surgery (human)
** R01HL-20163-02 Competitive coronary flow in native and graft vessels (dog)
R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
R01HL-20895-03 0002 Cineangiographic studies of cardiovascular system - Coronary disease--Regional myocardial blood flow (human, dog)
R01HL-20895-03 0003 Cineangiographic studies of cardiovascular system - Densitometry in coronary stenosis (human)
R01HL-20895-03 0008 Cineangiographic studies of cardiovascular system - Intercoronary anastomotic circulation--Stenosis and occlusion (dogs)
R23HL-21292-01 Human ventricular activation--Patterns and mechanisms (human)
** R01HL-21293-02 Randomized study of coronary bypass surgery (human)
** R01HL-21533-02 Platelet inhibitor drug in coronary surgery (human)
** R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
R01HL-22098-01 Is postoperative infarction due to reperfusion injury? (human, dogs)
** R01HL-22445-01 Platelet inhibitors--Effect on coronary bypass grafts (dogs)
** R01HL-22815-01 Regional myocardial function after revascularization (dogs)
** N01HV-32974-09 Collaborative studies on coronary artery surgery (human)

HEART RHYTHM
SEE HEART FUNCTION, HEART RHYTHM

HEART SCANNING
SEE HEART VISUALIZATION, HEART SCANNING*

HEART SEPTA
SEE HEART, SEPTUM

HEART SEPTAL DEFECTS
SEE CONGENITAL ABNORMALITIES, HEART SEPTAL DEFECTS

HEART SIZE
SEE HEART DIMENSIONS AND WEIGHT

HEART SOUND MEASUREMENTS
SEE HEART DISORDERS DIAGNOSIS, HEART SOUND MEASUREMENTS*

HEART SOUNDS
SEE HEART FUNCTION, HEART SOUNDS

HEART SURGERY
SEE ALSO HEART PROSTHESIS
SEE ALSO HEART RESUSCITATION
SEE ALSO HEART REVASCULARIZATION
SEE ALSO HEART TRANSPLANTATION
P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
P01HL-06296-18 0003 Cardiovascular and pulmonary adaptation to stress - Human exercise studies (human, dogs)
M P01HL-06312-17 Surgical cardiology
** P01HL-06312-17 0013 Surgical cardiology - Aortocoronary vein bypass grafting (human)
** P01HL-06312-17 0015 Surgical cardiology - Internal mammary artery versus saphenous vein for coronary artery bypass (human)
** P01HL-06312-17 0016 Surgical cardiology - Effect of hydralazine on infarct size following coronary occlusion (human)
** P01HL-06312-17 0017 Surgical cardiology - Cardiac transplantation (human)
** P01HL-06312-17 0018 Surgical cardiology - Cardiac transplantation growth (calves)
** P01HL-06312-17 0021 Surgical cardiology - Cardiac transplantation--Effect of immunosuppression on atherogenesis (monkeys)
** P01HL-06312-17 0023 Surgical cardiology - Effect of denervation on atherosclerosis
P01HL-06312-17 0028 Surgical cardiology - Coronary flow in the transplanted denervated heart (dogs)
P01HL-06312-17 0029 Surgical cardiology - Cardiac lymphatics in the transplanted heart (dogs)
** P01HL-06312-17 0039 Surgical cardiology - Cardiac transplantation--Biopsy correlates of rejection
** P01HL-06312-17 0053 Surgical cardiology - Enzyme pattern following cardiac surgery (human)
R01HL-07605-16 Congenital heart disease research program (human, dogs)
R01HL-09474-11 Natural history-congenital heart defects--Joint study (human)
R01HL-09476-10 Natural history, congenital heart defects--Joint study
M P01HL-10436-13 A multidisciplinary study of congenital heart disease
** P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
** P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
R01HL-10718-10 Natural history of congenital heart defects--Joint study (human)
M P01HL-11310-12 Mechanisms of cardiovascular disease
** P01HL-11310-12 0053 Mechanisms of cardiovascular disease - Ventricular pressure-volume after cardipulmonary bypass (dogs)
** P01HL-11310-12 0054 Mechanisms of cardiovascular disease - Mathematical model of ventricular pressure-volume (human, dogs)
** P01HL-11310-12 0055 Mechanisms of cardiovascular disease - Ventricular pressure-volume after intracardiac surgery (human)
** P01HL-11310-12 0056 Mechanisms of cardiovascular disease - Cardiac output response to blood pressure reduction in infants (human)
** P01HL-11310-12 0057 Mechanisms of cardiovascular disease - Blood pressure reduction after heart surgery in adults (human)
** P01HL-11310-12 0058 Mechanisms of cardiovascular disease - Dynamic response to vasodilating agents postoperatively (human)
** P01HL-11310-12 0059 Mechanisms of cardiovascular disease - Contractility--Acute response to digoxin after heart surgery (children)
** P01HL-11310-12 0062 Mechanisms of cardiovascular disease - Myocardial depressant factor in postoperative cardiac dysfunction (human, dogs)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
** P01HL-11310-12 0065 Mechanisms of cardiovascular disease - Algorithms for arterial pressure by automatic vasoactive agents control (human)
** P01HL-11310-12 0066 Mechanisms of cardiovascular disease - Measurement of cardiac output by thermodilution (children)
** P01HL-11310-12 0067 Mechanisms of cardiovascular disease - Cardiac performance with measured homodynamic variables (human)
** P01HL-11310-12 0068 Mechanisms of cardiovascular disease - Pharmacological intervention and myocarcial oxygen consuption (human, dogs)
** P01HL-11310-12 0069 Mechanisms of cardiovascular disease - Factors affecting mortality and morbidity after heart surgery (human)
** P01HL-11310-12 0070 Mechanisms of cardiovascular disease - Factors affecting long-term mortality and morbidity after heart surgery (human)
** P01HL-11310-12 0071 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial flutter (human)
** P01HL-11310-12 0072 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial tachycardia with block (human)
** P01HL-11310-12 0073 Mechanisms of cardiovascular disease - Electrophysiological study of atrial fibrillation (human)
** P01HL-11310-12 0074 Mechanisms of cardiovascular disease - Electrophysiological studies of paraxysmal atrial tachycardia (human)
** P01HL-11310-12 0076 Mechanisms of cardiovascular disease - Tratment of depressed cardiac output following heart surgery (children, puppies)
** P01HL-11310-12 0077 Mechanisms of cardiovascular disease - Abnormalities of rhythm and conduction following heart surgery (human)
P01HL-11310-12 0081 Mechanisms of cardiovascular disease - Analysis of regional left ventricular function (human)
** P01HL-11310-12 0082 Mechanisms of cardiovascular disease - Myocardial function in adult congenital heart disease (human)
P01HL-11310-12 0083 Mechanisms of cardiovascular disease - Ventricular volume and hemodynamics in adult congenital heart disease
P01HL-11310-12 0093 Mechanisms of cardiovascular disease - Multiple dipole electrocardiogram project (human, dogs)
P01HL-11310-12 0095 Mechanisms of cardiovascular disease - Blood and transfusion disorders (human, rats, monkeys)
** P01HL-11310-12 9001 Mechanisms of cardiovascular disease - Core support-hospital beds
** R01HL-11919-08 Pulmonary circulation in surgical heart disease (human, dogs)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
R01HL-12542-07 Natural history, congenital heart defects--Joint study (human)
** P01HL-12738-10 0071 Physiologic pharmacology and its clinical applications - IABP patient management in ventricular power failure (human)
** P01HL-12738-10 0092 Physiologic pharmacology and its clinical applications - Subendocardial ischemia following open heart surgery (human)
P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
P01HL-12738-10 0123 Physiologic pharmacology and its clinical applications - Ventricular assistance and preservation (human, dogs)
P01HL-12738-10 0127 Physiologic pharmacology and its clinical applications - Cardiac electrical activity (human, animals)
P01HL-12738-10 0128 Physiologic pharmacology and its clinical applications - Recording electrograms from specialized cardiac tissues (human, dogs)
P01HL-12738-10 0130 Physiologic pharmacology and its clinical applications - Compatibility enhancement during cardiac allografting (dogs)
P01HL-12738-10 0131 Physiologic pharmacology and its clinical applications - Evaluation of intracardiac shunts by contrast echocardiography (dogs)
P01HL-12738-10 0133 Physiologic pharmacology and its clinical applications - Pharmacologic antagonism of beta-adrenergic blockade (dogs)
M P01HL-13108-09 Clinical heart transplantation
** P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
** P01HL-13108-09 0002 Clinical heart transplantation - Preoperative immunologic studies of cardiac recipients
** P01HL-13108-09 0003 Clinical heart transplantation - Endomyocardial biopsy pathology
** P01HL-13108-09 0009 Clinical heart transplantation - B cell alloantigens in cardiac allograft compatibility (human)
** P01HL-13108-09 0010 Clinical heart transplantation - Serum factors inhibiting lymphocyte responses in MLC (human, bush babies)
** P01HL-13108-09 0011 Clinical heart transplantation - Humoral and cellular kinetics of allograft rejection (human)
** P01HL-13108-09 0012 Clinical heart transplantation - Human T cell sheep erythrocyte receptors
** P01HL-13108-09 0013 Clinical heart transplantation - Cardiomyopathic lymphocyte responsiveness to cultured endothelium
** P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
** P01HL-13108-09 0015 Clinical heart transplantation - Antithymocyte globulin analysis and clinical effects
** P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immune response (dogs)
** P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
** P01HL-13108-09 0018 Clinical heart transplantation - Electrophysiologic studies of cardiac drugs in the denervated heart
** P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
** P01HL-13108-09 0020 Clinical heart transplantation - Autonomic neural studies in the denervated heart (human)
** P01HL-13108-09 0021 Clinical heart transplantation - Autonomic reflex regulation of ventricular function (human)
** P01HL-13108-09 0022 Clinical heart transplantation - Studies on cardiac receptors (human)
P01HL-13737-07 0033 Assisted circulation - Autologous bioprosthetic grafts for coronary artery bypass surgery (human, dogs)
P01HL-13737-07 0037 Assisted circulation - Clinical measurement of blood flow through aorto-coronary vein bypass graft
P01HL-13737-07 0038 Assisted circulation - Distinguishing the ischemic ventricle from scarred ventricle by balloon pumping
P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
P01HL-13738-08 0003 Cardiac assist devices and artificial hearts - Pathophysiological effects of the artificial heart (calves)
** R01HL-13920-07 Expanding the role of surgery of atrial dysrhythmias (dogs)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
P01HL-15194-07 0019 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, bypass grafts and diastolic driving pressure (human, dogs)
R01HL-16292-05 0002 Surgery and non-obstructive coronary insufficiency - Effects of hypothermia during cardiopulmonary bypass (dogs)
** R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
P60HL-17292-04 0029 Vermont Lung Center - Computer-assisted pre-operative evaluation (human)
R01HL-17578-04 Exercise performance in children with heart disease
** P50HL-17667-04 0022 Study of ischemic heart disease - Preventing myocardial injury in surgery using cardiopulmonary bypass (human, rat)
** P50HL-17667-04 0029 Study of ischemic heart disease - Computer diagnosis of cardiac arrhythmias after open heart surgery (human)
** P50HL-17670-04 0008 Study of ischemic heart disease - Surgical treatment of cardiac rhythm disorders (human, dogs)
** P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
M R01HL-17993-04 Ventricular dynamics from surgically inserted markers
** R01HL-17993-04 0001 Ventricular dynamics from surgically inserted markers - Effects of aortocoronary bypass graft surgery on ventricular function (human)
** R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
R01HL-17993-04 0005 Ventricular dynamics from surgically inserted markers - Cardiac dimensions and dynamic after mitral, aortic valve surgery (human)
** R01HL-17993-04 0009 Ventricular dynamics from surgically inserted markers - Cardiovascular visualization in surgery of growing heart (dogs)
** R01HL-17993-04 0010 Ventricular dynamics from surgically inserted markers - Postoperative cardiovascular visualization (human)
** R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
R01HL-18398-04 Mechanisms of delayed and asymetric ventricular conduction (human, dogs)
R01HL-18517-03 Intrinsic innervation of the heart (dogs)
P01HL-18646-03 0004 Studies basic to heart transplantation - Presensitization--Detection, incidence and clinical significance
R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
** R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
** R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
R01HL-19246-03 Regression of cardiac hypertrophy--Myocardial and renal (human)
** R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
M R01HL-19451-03 Functional characteristics of the left heart
R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
** R01HL-20080-02 Surgically induced myocardial edema (dogs)
R01HL-20143-02 Hypothermic circulatory arrest--Cerebral vascular change (dogs)
M P01HL-20552-02 The development and regression of cardiac hypertrophy
R01HL-20630-03 Oevelopment of a pulsed Doppler velocity detector (human, animals)
R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
R01HL-20803-02 Intra-aortic balloon pumping (dogs, lambs, cats)
R01HL-20895-03 0003 Cineangiographic studies of cardiovascular system - Oensitometry in coronary stenosis (human)
R01HL-20895-03 0011 Cineangiographic studies of cardiovascular system - Ventricular hypertrophy and preoutflow contraction (human, dogs)
** R01HL-21210-01 Acute renal failure following cardiac surgery (human)
R23HL-21292-01 Human ventricular activation--Patterns and mechanisms (human)
R01HL-21293-02 Randomized study of coronary bypass surgery (human)
** R23HL-21347-02 Accessory pathways and supraventricular tachycardia
** R01HL-22098-01 Is postoperative infarction due to reperfusion injury? (human, dogs)
** R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
R01HL-22759-01 Regional myocardial blood flow during hypothermia (dogs)
R23HL-22787-01 Cardiac volume by biplane echocardiography (human)
** R01HL-22894-01 Two dimensional ultrasound and cardiac surgery (human, dogs)

HEART SURGERY, PERICARDIOTOMY

SEE ALSO DISEASES, COMPLICATIONS, POSTPERICARDIOTOMY SYNDROME

R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)
R01HL-22894-01 Two dimensional ultrasound and cardiac surgery (human, dogs)

HEART SURGERY, SEPTAL DEFECT THERAPEUTIC

P01HL-11310-12 0061 Mechanisms of cardiovascular disease - Computer simulation of transposition of great arteries in infants
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)

HEART TRANSPLANTATION

SEE ALSO HEART PRESERVATION

M P01HL-06312-17 Surgical cardiology
** P01HL-06312-17 0017 Surgical cardiology - Cardiac transplantation (human)
** P01HL-06312-17 0018 Surgical cardiology - Cardiac transplantation growth (calves)
** P01HL-06312-17 0021 Surgical cardiology - Cardiac transplantation--Effect of immunosuppression on atherogenesis (monkeys)
** P01HL-06312-17 0022 Surgical cardiology - Cardiac transplant--Experimental simultaneous heart and kidney transplant (dogs)
** P01HL-06312-17 0023 Surgical cardiology - Effect of denervation on atherosclerosis
** P01HL-06312-17 0028 Surgical cardiology - Coronary flow in the transplanted denervated heart (dogs)
** P01HL-06312-17 0029 Surgical cardiology - Cardiac lymphatics in the transplanted heart (dogs)
** P01HL-06312-17 0032 Surgical cardiology - Preservation of the heart by perfusion (dogs)
** P01HL-06312-17 0039 Surgical cardiology - Cardiac transplantation--Biopsy correlates of rejection
** P01HL-06312-17 0040 Surgical cardiology - Left ventricle assist (dogs)
P01HL-06370-17 0001 Cardiopulmonary and renal pathology research center - The humoral and cellular mechanisms of allograft rejection (monkeys)
M R01HL-08696-15 Orthotopic heart transplantation
** R01HL-08696-15 0001 Orthotopic heart transplantation - Transplantation immunology--Antithymocyte globulin (rabbits, monkeys)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-08696-15 0004 Orthotopic heart transplantation Transplantation immunology--Avian antibody studies (chickens, rats, rabbits)
** R01HL-08696-15 0010 Orthotopic heart transplantation - Transplantation immunology--Total lymphoid irradiation (dogs, primates)
** R01HL-08696-15 0011 Orthotopic heart transplantation - Transplantation immunology--Immunodepressive factor (human, dogs)
** R01HL-08696-15 0012 Orthotopic heart transplantation - Transplantation immunology--Modulation of donor antigenicity (dogs)
** R01HL-08696-15 0013 Orthotopic heart transplantation - Transplantation immunology--Cardiac heterotransplantation (rabbits, dogs)
** R01HL-08696-15 0014 Orthotopic heart transplantation - Transplantation immunology--Cardiac retransplantation (dogs)
** R01HL-08696-15 0018 Orthotopic heart transplantation - Training in cardiac transplantation
** R01HL-08696-15 0019 Orthotopic heart transplantation - Suppressor cell stimulation (dogs, mice)
** R01HL-08696-15 0020 Orthotopic heart transplantation - Complete cardiopulmonary transplantation (dogs)
** P01HL-12738-10 0130 Physiologic pharmacology and its clinical applications - Compatibility enhancement during cardiac allografting (dogs)
M P01HL-13108-09 Clinical heart transplantation
** P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
** P01HL-13108-09 0002 Clinical heart transplantation - Preoperative immunologic studies of cardiac recipients
** P01HL-13108-09 0003 Clinical heart transplantation - Endomyocardial biopsy pathology
** P01HL-13108-09 0008 Clinical heart transplantation - Physiology and pharmacology of the transplanted human heart
** P01HL-13108-09 0009 Clinical heart transplantation - B cell alloantigens in cardiac allograft compatibility (human)
** P01HL-13108-09 0010 Clinical heart transplantation - Serum factors inhibiting lymphocyte responses in MLC (human, bush babies)
** P01HL-13108-09 0011 Clinical heart transplantation - Humoral and cellular kinetics of allograft rejection (human)
** P01HL-13108-09 0012 Clinical heart transplantation - Human T cell sheep erythrocyte receptors
** P01HL-13108-09 0013 Clinical heart transplantation - Cardiomyopathic lymphocyte responsiveness to cultured endothelium
** P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
** P01HL-13108-09 0015 Clinical heart transplantation - Antithymocyte globulin analysis and clinical effects
** P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immune response (dogs)
** P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
** P01HL-13108-09 0018 Clinical heart transplantation - Electrophysiologic studies of cardiac drugs in the denervated heart
** P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
** P01HL-13108-09 0020 Clinical heart transplantation - Autonomic neural studies in the denervated heart (human)
** P01HL-13108-09 0021 Clinical heart transplantation - Autonomic reflex regulation of ventricular function (human)
** P01HL-13108-09 0022 Clinical heart transplantation - Studies on cardiac receptors (human)
** P01HL-13108-09 0023 Clinical heart transplantation - Adaptive mechanisms of the denervated heart (human)
** P01HL-13108-09 0024 Clinical heart transplantation - Response of denervated heart to stress--Noninvasive (human)
P01HL-13737-07 0024 Assisted circulation - Dynamic prosthetic myocardium (dogs)
** R01HL-14799-07 Cardiac heterotransplantation--Immunologic modification (mice, rat)
** P60HL-17269-04 0034 National heart and blood vessel research and demonstration center - Immunologic enhancement of cardiac allografts (mice)
R01HL-17902-04 Mammalian renal microcirculation (hamsters)
** R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
** R01HL-17993-04 0006 Ventricular dynamics from surgically inserted markers - Atrial pacing in transplant patients
** R01HL-18186-04 Cardiac allografts in autologous radiation chimeras (rats, dogs)
R01HL-18517-03 Intrinsic innervation of the heart (dogs)
M P01HL-18646-03 Studies basic to heart transplantation
** P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
** P01HL-18646-03 0002 Studies basic to heart transplantation - Detection of rejection (dogs)
** P01HL-18646-03 0003 Studies basic to heart transplantation Host responses to xenografts (rodents, rabbits)
** P01HL-18646-03 0004 Studies basic to heart transplantation Presensitization-Detection, incidence and clinical significance
P01HL-18646-03 0006 Studies basic to heart transplantation Reduction or elimination of existing presensitization (human, animals)
** P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
** P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
** P01HL-18646-03 0010 Studies basic to heart transplantation Development and study of a heart preservation chamber (dogs, sheep)
** R01HL-18936-02 Heart preservation and transplantation studies (rat)
R01HL-20356-02 Development and evaluation of an artificial heart (calves)
** R23HL-22448-01 Modulation of heart graft antigenicity by perfusion (rats)

HEART TRANSPLANTATION, VALVES TRANSPLANTATION

P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
P01HL-11310-12 0057 Mechanisms of cardiovascular disease - Blood pressure reduction after heart surgery in adults (human)
P01HL-11310-12 0081 Mechanisms of cardiovascular disease - Analysis of regional left ventricular function (human)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
P01HL-12738-10 0092 Physiologic pharmacology and its clinical applications - Subendocardial ischemia following open heart surgery (human)
R01HL-16461-05 Late results of valve replacement--Computer analysis (human)
** P50HL-17665-04 0020 Study of ischemic heart disease - Ischemic injury to myocardium during measured states of ischemia (human)
P50HL-17665-04 0028 Study of ischemic heart disease - Pathologic and biochemical studies of ischemic myocardium (human, dog)
P50HL-17667-04 0022 Study of ischemic heart disease - Preventing myocardial injury in surgery using cardiopulmonary bypass (human, rat)
R01HL-17993-04 0001 Ventricular dynamics from surgically inserted markers - Effects of aortocoronary bypass graft surgery on ventricular function (human)
R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
** R01HL-17993-04 0005 Ventricular dynamics from surgically inserted markers - Cardiac dimensions and dynamic after mitral, aortic valve surgery (human)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
R01HL-19246-03 Regression of cardiac hypertrophy--Myocardial and renal (human)
** R01HL-19818-02 Endocarditis on prosthetic heart valves (rabbits, human)
R01HL-20037-02 Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle)
** R01HL-20829-02 Fluid mechanics of heart valve prostheses (dogs, human)
R01HL-22888-01 Prosthetic valve endocarditis--Etiology and therapy (dogs)
N01HV-72939-01 Develop and evaluate left heart assist blood pumps (human, calves, pigs)

HEART VALVES

SEE HEART, VALVES

HEART VALVES PROSTHETIC

SEE HEART PROSTHESIS, VALVES PROSTHETIC

HEART VALVES TRANSPLANTATION

SEE HEART TRANSPLANTATION, VALVES TRANSPLANTATION

HEART VALVULAR DISORDERS

SEE HEART DISORDERS, VALVULAR

HEART VESSELS

** P01HL-14388-07 0163 Regulation of the circulation in pathnlogical states - Adrenergic receptors in coronary vessels (dogs)
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
R01HL-18639-03 Human anatomy for cardiac prostheses (human)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)

HEART VESSELS, CORONARY ARTERIES

R01HL-01803-23 0010 Arteriosclerosis, glomerulonephritis, rheumatic fever Atherosclerosis induction Graft rejection and hypercholesterolemia (rabbits)
R01HL-01803-23 0011 Arteriosclerosis, glomerulonephritis, rheumatic fever Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
R01HL-01803-23 0014 Arteriosclerosis, glomerulonephritis, rheumatic fever Regenerated endothelium on lipid accumulation in arterial wall (rabbit)
** P01HL-06285-18 0131 Cardiovascular-respiratory physiology and biochemistry Fetal heart development and ventricular outflow obstruction (lambs)
P01HL-06285-18 0143 Cardiovascular-respiratory physiology and biochemistry Myocardial ischemia (human, dogs, lambs)
P01HL-06285-18 0156 Cardiovascular-respiratory physiology and biochemistry Myocardial performance following revascularization (human)
P01HL-06312-17 0028 Surgical cardiology - Coronary flow in the transplanted denervated heart (dogs)
** R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
P01HL-08682-15 0005 Regulation of the cardiovascular system Smooth muscle and mechanical properties of blood vessels (dogs, human)
P01HL-08682-15 0011 Regulation of the cardiovascular system - Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels)
** P01HL-11310-12 0090 Mechanisms of cardiovascular disease - Clinicopathological cardiovascular correlation (human, animals)
P01HL-11310-12 9001 Mechanisms of cardiovascular disease - Core support-hospital beds
** P01HL-11414-11 0024 Thrombosis and atherosclerosis program - Radiographic demonstration of small coronary arteries (human, dogs)
R01HL-12083-11 Flow field in aorta and its major branches (dogs, phantom models)
** P50HL-14164-07 0044 A/S SCOR--Comparative and experimental atherosclerosis - Cell biology-atherosclerosis project (pigeons)
P50HL-14236-05 0007 Prevention of premature arteriosclerosis - Exercise stress testing hyperlipoproteinemia (human)
** P01HL-14388-07 0162 Regulation of the circulation in pathological states - Phasic coronary flow and myocardial perfusion in aortic regurgitation (dogs)
** R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
R01HL-16587-04 Cholesterol binding saponins and atherosclerosis (monkeys)
** R01HL-16657-06 Innervation of coronary arteries and heart (rats)
P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Dynamics of ischemic heart disease (human, dog)
P50HL-17648-04 0006 Study of ischemic heart disease - Ventricular performance and myocardial perfusion in obstructive coronary disease
P50HL-17648-04 0012 Study of ischemic heart disease - Retrograde coronary venous perfusion--Acute myocardial ischemia
P50HL-17648-04 0013 Study of ischemic heart disease - Fate of bypassed and bypassing vessels (dogs)
P50HL-17648-04 0021 Study of ischemic heart disease - Biventricular contractile responses to acute myocardial infarction (mammals)
P50HL-17651-04 0037 Ischemic heart disease specialized center of research - Measurement of coronary venous outflow by thermodilution (human)
** P50HL-17655-04 0004 Study of ischemic heart disease - Coronary arteriography in survivors of acute myocardial infarction (human)
P50HL-17655-04 0006 Study of ischemic heart disease - Evaluation of coronary artery bypass graft surgery (human)
P50HL-17655-04 0009 Study of ischemic heart disease - Random trial of medical and surgical therapy in unstable angina (human)
P50HL-17665-04 0012 Study of ischemic heart disease - Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog
P50HL-17665-04 0013 Study of ischemic heart disease - National cooperative study in unstable angina pectoris (human)
P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)
P50HL-17669-04 0008 Ischemic heart disease center (SCOR) - Segmental ventricular dysfunction during stress-induced ischemia (dog, human)
P50HL-17670-04 0006 Study of ischemic heart disease - Assessment of coronary artery hemodynamics and myocardial blood flow (human)
P50HL-17682-04 0005 Study of ischemic heart disease - Regional myocardial perfusion deficits and segmental contraction disorders in man
P50HL-17682-04 0013 Study of ischemic heart disease - Chronic ischemic heart disease--Myocardial function and metabolism (dogs, swine)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-17682-04 0021 Study of ischemic heart disease - Prostaglandin biosynthesis in blood vessels from ischemic myocardium (rath sheep)
P01HL-18208-04 0006 Center for the study of blood cell rheology - Analysis of flow in arterioles and capillaries (human)
R01HL-18441-03 Guidelines for polymers acting as elastin substitutes
R01HL-18468-03 The distribution of flow in the myocardium (dog, pig)
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
R01HL-18793-03 Clinical-pathologic studies of sudden cardiac death (human)
R01HL-20163-02 Competitive coronary flow in native and graft vessels (dog)
** R01HL-20196-02 Regulation of coronary arterial smooth muscle
R01HL-20226-02 Cardiac bypass and coronary collateral physiology (dogs)
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
R01HL-20428-03 The juvenile diabetic heart (human)
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R01HL-20829-02 Fluid mechanics of heart valve prostheses (dogs, human)
** R01HL-21187-01 Potassium, norepinephrine, and coronary arterial tone (dogs)
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
R01HL-22778-01 Total synthesis of natural cardiotonic ionophores
** R01HL-22801-01 Analysis of coronary artery behavior (dogs)
** R01HL-22952-01 Validation of quantitative coronary arteriography (dogs)
R01HL-23171-01 Coronary collateral circulation in myocardial ischemia (dog, pig, rat, human)
** N01HV-32973-12 Coordinating center for collaborative studies on coronary artery surgery
** N01HV-32978-08 Collaborative studies on coronary artery surgery
** N01HV-32979-09 Collaborative studies on coronary artery surgery
N01HV-72924-04 Non-invasive detection of atherosclerotic lesions (human, animals)
N01HV-72929-01 Improved detection of atherosclerosis (human, dogs)
N01HV-72930-02 Atherosclerosis assessment--Angiography and ultrasound (dogs, human)
N01HV-72931-02 Non-invasive detection of atherosclerotic lesions (human, dogs)
N01HV-72932-00 Non-invasive detection of atherosclerotic lesions (human, phantoms)

HEART VESSELS, CORONARY VEINS

P01HL-08682-15 0011 Regulation of the cardiovascular system - Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels)
** P01HL-15194-07 0001 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, venous drainage and collateral flow (human, dogs)
** P01HL-15194-07 0017 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation and effects of arteriographic lesions on flow (human)
P01HL-15194-07 0018 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, metabolic demand and vasodilatory reserve (human, dogs)
** P50HL-17648-04 0012 Study of ischemic heart disease - Retrograde coronary venous perfusion--Acute myocardial ischemia
P50HL-17648-04 0013 Study of ischemic heart disease - Fate of bypassed and bypassing vessels (dogs)
P50HL-17651-04 0016 Ischemic heart disease specialized center of research - Retroperfusion of coronary venus circulation with therapeutic agents (dogs)
** P50HL-17651-04 0037 Ischemic heart disease specialized center of research - Measurement of coronary venous outflow by thermodilution (human)
P50HL-17682-04 0021 Study of ischemic heart disease - Prostaglandin biosynthesis in blood vessels from ischemic myocardium (rat, sheep)
R01HL-20163-02 Competitive coronary flow in native and graft vessels (dog)

HEART VESSELS, CORONARY VEINS, CORONARY SINUS

P01HL-11310-12 0068 Mechanisms of cardiovascular disease - Pharmacological intervention and myocarcial oxygen consuption (human, dogs)
P01HL-12738-10 0080 Physiologic pharmacology and its clinical applications - Electrophysiology of cardiac muscle in the mitral valve (monkeys)
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
P01HL-15194-07 0018 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, metabolic demand and vasodilatory reserve (human, dogs)
R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
P50HL-17651-04 0037 Ischemic heart disease specialized center of research - Measurement of coronary venous outflow by thermodilution (human)
P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)

HEART VISUALIZATION*

SEE ALSO CARDIOVASCULAR VISUALIZATION*
SEE ALSO HEART DISORDERS DIAGNOSIS (INCL EXAMS)*
** P50HL-17655-04 0012 Study of ischemic heart disease - DATA management
** R01HL-21846-01 Cardiac failure detection by radiography and optics (monkeys)

HEART VISUALIZATION, ANGIOCARDIOGRAPHY*

** P01HL-11414-11 0024 Thrombosis and atherosclerosis program - Radiographic demonstration of small coronary arteries (human, dogs)
** R01HL-16484-04 Radiographic ventriculometry for coronary heart disease (human)
R01HL-20674-02 Evaluation of cardiac function with radioactive tracers
R01HL-20677-02 Radionuclide studies in congenital heart disease
R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
R01HL-21273-02 Fibrinogen labeling with radiometals
R23HL-21279-02 Angiographic estimation of atherosclerotic wall thickness
R01HL-21589-01 Radiographic contrast toxicity in ischemic heart
** R01HL-21793-02 Functional infarct size by gated radioangiography (human, dogs)
R01HL-23983-01 Quantitative radiocardiography (human, dogs)

HEART VISUALIZATION, ANGIOCARDIOULTRASONOGRAPHY*

P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
P01HL-04664-18 0012 Cardiovascular and lung dynamics - Quantitative single plane left ventricular angiography (human)
M P01HL-07293-17 Non-invasive cardiovascular measurements
** P01HL-07293-17 0041 Non-invasive cardiovascular measurements - Ventricular volumes and dimensions (human)
** P01HL-07293-17 0042 Non-invasive cardiovascular measurements - Ventricular imaging software (human)
** P01HL-07293-17 0043 Non-invasive cardiovascular measurements - ECHO-Doppler instrumentation for cardiac measurements (human)
** P01HL-07293-17 0044 Non-invasive cardiovascular measurements - Cardiac duplex scanner
** P01HL-07293-17 0045 Non-invasive cardiovascular measurements - Cardiac scanner transducer position locating systems (human)
** P01HL-07293-17 0046 Non-invasive cardiovascular measurements - Cardiac scanner signal processors
** P01HL-07293-17 0047 Non-invasive cardiovascular measurements - Cardiac scanner system software
** P01HL-07293-17 0048 Non-invasive cardiovascular measurements - Cardiac scanner recording and display systems component
** P01HL-07293-17 0049 Non-invasive cardiovascular measurements - Cardiac scanner engineering evaluation and error analysis
** P01HL-07293-17 0050 Non-invasive cardiovascular measurements - Cardiac dimensions measurements engineering evaluation and error analysis
** P01HL-07293-17 0051 Non-invasive cardiovascular measurements - Physiologic evaluation of duplex scanner (dogs)
** P01HL-07293-17 0052 Non-invasive cardiovascular measurements - Clinical evaluation of the duplex scanner (human)
** P01HL-07293-17 0053 Non-invasive cardiovascular measurements - Clinical evaluation of cardiac dimensions using the duplex scanner (human)
** P01HL-07293-17 0054 Non-invasive cardiovascular measurements - Detection of arterial occlusive disease (human)
** P01HL-07293-17 0055 Non-invasive cardiovascular measurements - Peripheral vascular transducer position locating system
** P01HL-07293-17 0056 Non-invasive cardiovascular measurements - Peripheral vascular system software
** P01HL-07293-17 0057 Non-invasive cardiovascular measurements - Peripheral vascular scanner engineering evaluation and error analysis (human)
** P01HL-07293-17 0058 Non-invasive cardiovascular measurements - Peripheral duplex scanner physiologic evaluation
** P01HL-07293-17 0059 Non-invasive cardiovascular measurements - Intracardiac blood flow measurement (human)
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
** R01HL-12715-10 Dynamic cardiovascular measurement using ultrasound
R01HL-14785-07 Ultrasonic scattering for tissue characterization (dogs, cattle, human)
R01HL-14903-07 A new index of cardiac contractility (human, dogs, baboons)
** R01HL-16260-04 Development of clinical cine ultrasound cardiography
R01HL-16487-05 Computer controlled two dimensional echocardiography
** R01HL-18144-03 Preprocessor system for cardiograms (human)
R01HL-19791-02 Ultrasonic monitoring visceral blood vessels
R01HL-20898-02 Ultrasonic evaluation in direct arterial surgery (models, cattle, human)
** N01HV-52966-01 Development and evaluation of an ultrasonic imaging system (swine)
** N01HV-72927-00 Systems for non-invasive detection of atherosclerotic lesions (human)
** N01HV-72928-04 Develop high resolution ultrasonic imaging techniques
** N01HV-72930-02 Atherosclerosis assessment--Angiography and ultrasound (dogs, human)

HEART VISUALIZATION, CINEANGIOCARDIOGRAPHY*

M P01HL-04664-18 Cardiovascular and lung dynamics
** P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
** P01HL-12373-10 0015 Cardiopulmonary physiology and pathophysiology - Cine angiographic-hemodynamic facility
P50HL-14192-08 0008 Specialized center of research in hypertension - New radiographic methods--Recognition of renovascular hypertension (human, dog)
R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)
** R01HL-16260-04 Development of clinical cine ultrasound cardiography
P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Dynamics of ischemic heart disease (human, dog)
** R01HL-17532-04 Infarct size--ECG, angio, path, correlation in dogs
P50HL-17648-04 0034 Study of ischemic heart disease - Data management--Hemodynamic data
M R01HL-17993-04 Ventricular dynamics from surgically inserted markers
R01HL-17993-04 0001 Ventricular dynamics from surgically inserted markers - Effects of aortocoronary bypass graft surgery on ventricular function (human)
R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
** R01HL-17993-04 0009 Ventricular dynamics from surgically inserted markers - Cardiovascular visualization in surgery of growing heart (dogs)
** R01HL-17993-04 0010 Ventricular dynamics from surgically inserted markers - Postoperative cardiovascular visualization (human)
R01HL-18683-03 Left ventricle function in aortic regurgitation (human)
** R01HL-19003-03 High precision densitometry of coronary angiograms
M R01HL-19451-03 Functional characteristics of the left heart
** R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
** R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
** R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
R01HL-20895-03 0003 Cineangiographic studies of cardiovascular system - Densitometry in coronary stenosis (human)
** R01HL-20895-03 0004 Cineangiographic studies of cardiovascular system - Cineangiography--Coronary lesions and ventricular function (human)
** R23HL-21197-02 Right ventricular contraction and relaxation (dogs)
R01HL-21985-01 Videoroentgenography in congenital heart disease

HEART VISUALIZATION, ECHOCARDIOGRAPHY*

P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
M P01HL-06308-18 Mechanisms and therapy of circulatory disease
** P01HL-06308-18 0012 Mechanisms and therapy of circulatory disease - Echocardiographic evaluation of hemodynamics of arrhythmia (human)
** P01HL-06308-18 0042 Mechanisms and therapy of circulatory disease - Echocardiographic assessment of arrhythmias--Myocardial tissue type (human, dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-06308-18 0043 Machanisms and tharapy of circulatory disaase - Exarcise and achocardiographic axamining tachniquas (human)
** P01HL-06308-18 0044 Mechanisms and therapy of circulatory disaasa - Echocardiography to datarmina site of actopic impulsa formation (human, dogs)
P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Vantricular function and structura (human, dogs)
** P01HL-12738-10 0131 Physiologic pharmacology and its clinical applications - Evaluation of intracardiac shunts by contrast echocardiography (dogs)
P50HL-14214-07 0030 Nawborn lung center for hyaline mambrane disease - Effects of ductal patency--Impedance cardiography and echocardiography (human)
** R01HL-15016-07 New concepts in cardiac ultrasound technology (human)
** R01HL-16487-05 Computar controlled two dimensional achocardiography
** R01HL-16830-05 Non-invasive determination of aortic blood velocities (human)
P60HL-17269-04 0027 National heart and blood vessel research and demonstration center - Non-invasive evaluation of cardiac function--Ischemic heart disease (human, dog)
P50HL-17648-04 0034 Study of ischemic heart disease - Oata management--Hemodynamic data
P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
P50HL-17669-04 0008 Ischemic heart disease center (SCOR) - Segmental ventricular dysfunction during stress-induced ischemia (dog, human)
** P50HL-17670-04 0014 Study of ischemic heart disease - Real time ultrasound imaging in ischemic heart disease (human, dog)
P50HL-17682-04 0014 Study of ischemic heart disease - Myocardial ischemia--Instrumentation and technique (dogs, baboons)
P50HL-17682-04 0015 Study of ischemic heart disease - Acute myocardial ischemia and infarction and their reversibility (dogs, baboons)
R01HL-18144-03 Preprocessor system for cardiograms (human)
P50HL-18323-04 0012 SCOR hypertension center - Renin as a risk factor (human)
** P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
R01HL-18683-03 Left ventricle function in aortic regurgitation (human)
R01HL-19232-03 ECHO changes in wall motion with myocardial ischemia
** R01HL-19246-03 Regression of cardiac hypertrophy--Myocardial and renal (human)
M R01HL-19451-03 Functional characteristics of the left heart
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL-20428-03 The juvenile diabetic heart (human)
** R01HL-20872-02 Multidimensional echo imaging of the ischemic heart
** R23HL-22787-01 Cardiac volume by biplane echocardiography (human)
** R01HL-22894-01 Two dimensional ultrasound and cardiac surgery (human, dogs)
** N01HR-62920-02 Noninvasive diagnosis of pulmonary hypertension (dog, human)

HEART VISUALIZATION, EPICARDIAL MAPPING

R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)

HEART VISUALIZATION, HEART SCANNING*

M P01HL-04664-18 Cardiovascular and lung dynamics
** P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
** P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
** P01HL-04664-18 0004 Cardiovascular and lung dynamics - X-ray cross section imaging of the circulation (dogs)
P01HL-04664-18 0006 Cardiovascular and lung dynamics - Cross section imaging of organ functions using emitted radiation (dogs)
P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
M P01HL-07293-17 Non-invasive cardiovascular measurements
P01HL-07293-17 0041 Non-invasive cardiovascular measurements - Ventricular volumes and dimensions (human)
** P01HL-07293-17 0042 Non-invasive cardiovascular measurements - Ventricular imaging software (human)
** P01HL-07293-17 0043 Non-invasive cardiovascular measurements - ECHO-Ooppler instrumentation for cardiac measurements (human)
** P01HL-07293-17 0044 Non-invasive cardiovascular measurements - Cardiac duplex scanner
** P01HL-07293-17 0045 Non-invasive cardiovascular measuramonts - Cardiac scanner transducer position locating systems (human)
** P01HL-07293-17 0046 Non-invasive cardiovascular measurements - Cardiac scanner signal processors
** P01HL-07293-17 0047 Non-invasive cardiovascular measuremants - Cardiac scanner system software
** P01HL-07293-17 0048 Non-invasive cardiovascular measurements - Cardiac scanner recording and display systems component
** P01HL-07293-17 0049 Non-invasive cardiovascular measurements - Cardiac scanner engineering evaluation and error analysis
** P01HL-07293-17 0050 Non-invasive cardiovascular measurements - Cardiac dimensions measurements engineering evaluation and error analysis
** P01HL-07293-17 0051 Non-invasive cardiovascular measurements - Physiologic evaluation of duplex scanner (dogs)
P01HL-07293-17 0052 Non-invasive cardiovascular measurements - Clinical evaluation of the duplex scanner (human)
** P01HL-07293-17 0053 Non-invasive cardiovascular measurements - Clinical evaluation of cardiac dimensions using the duplex scanner (human)
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
P01HL-11310-12 0055 Mechanisms of cardiovascular disease - Ventricular pressure-volume after intracardiac surgery (human)
P01HL-11310-12 0081 Mechanisms of cardiovascular disease - Analysis of regional left ventricular function (human)
** R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
** R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
** P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
P01HL-15194-07 0017 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation and effects of arteriographic lesions on flow (human)
P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Dynamics of ischemic heart disease (human, dog)
** P50HL-17646-04 0009 Study of ischemic heart disease - Regional metabolic derangements indicating ischemia (rabbit, dog, human)
** P50HL-17648-04 0004 Study of ischemic heart disease - Radionuclide imaging studies (human, pig)
P50HL-17648-04 0006 Study of ischemic heart disease - Ventricular performance and myocardial perfusion in obstructive coronary disease
P50HL-17648-04 0034 Study of ischemic heart disease - Data management--Hemodynamic data
** P50HL-17651-04 0038 Ischemic heart disease specialized center of research - Cardiothermography (human, dog)
P50HL-17655-04 0006 Study of ischemic heart disease - Evaluation of coronary artery bypass graft surgery (human)
** P50HL-17655-04 0011 Study of ischemic heart disease - Core facility--Cardiovascular nuclear medicine (human, dog)
** P50HL-17665-04 0027 Study of ischemic heart disease - Positron imaging of regional myocardial perfusion (human, dog)
P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
** P50HL-17669-04 0009 Ischemic heart disease center (SCOR) - Infarct volume--99Tc stannous pyrophosphate myocardial scintigrams (dogs, human)
P50HL-17669-04 0022 Ischemic heart disease center (SCOR) - Pathological studies of human and experimental ischemic heart disease
** P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
** P50HL-17670-04 0015 Study of ischemic heart disease - Radionuclide studies of myocardial ischemia (human)
** P50HL-17670-04 0020 Study of ischemic heart disease - Radionuclide evaluation of coronary artery disease (human, dog)
P50HL-17682-04 0005 Study of ischemic heart disease - Regional myocardial perfusion deficits and segmental contraction disorders in man
P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
** R01HL-18492-03 Measurement of regional coronary flow reserve (human, dogs)
** P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
** P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
** R01HL-18873-02 Early radiologic diagnosis of cardiac failure (monkey)
R01HL-18968-03 Computer technology for transaxial tomography
R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
** R01HL-19135-04 Heterogeneity of reginnal myocardial blood flow (dogs)
** R01HL-19232-03 ECHO changes in wall motion with myocardial ischemia
** R01HL-19289-03 Assessment of infusion methods for myocardial mapping (dogs)
** R01HL-19451-03 0001 Functional characteristics of the left haart - Vantricular performance using epicardial radiopaque markers (human)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left vantricular segmental contraction (human, dogs)
R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
** R01HL-19537-03 Oetection of myocardial injury with ultrasound (dogs)
** R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
** R01HL-20895-03 0002 Cineangiographic studies of cardiovascular system - Coronary disease-Regional myocardial blood flow (human, dog)
R01HL-20895-03 0005 Cineangiographic studies of cardiovascular system - Computerized axial tomography--Cardiac wall motion and infarction (dogs)
** P50HL-21006-02 0005 Specialized center of research in arteriosclerosis - Regional myocardial perfusion in patient with coronary artery disease (also dogs)
R23HL-21253-01 Anatomical models in computer-aided image analysis
R01HL-21276-02 Oevelopment of 99-mTc myocardial imaging agents
** R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
M R01HL-21684-02 Radionuclide infarct sizing and therapy evaluation
** R01HL-21684-02 0001 Radionuclide infarct sizing and therapy evaluation - Evaluating preservation of ischemic myocardium by radioisotope methods (dog)
** R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)
** R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
** R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
** R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
** R01HL-21697-01 Myocardium infarct sizing by 82Rb emission tomography (dogs, human)
** R01HL-21707-01 Quantification of infarct size by emission tomography (human, dogs)
** R01HL-21719-01 Computed cardiac tomography in infarct sizing (dogs, human)
M R01HL-21751-02 Thallium and antimyosin in ischemia and infarction
** R01HL-21751-02 0001 Thallium and antimyosin in ischemia and infarction - In vitro models of ischemia and infarction (rats, mice)
** R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction
** R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies--Ischemia and infarction
** R01HL-21793-02 Functional infarct size by gated radioangiography (human, dogs)
** R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
R01HL-22750-01 Oigoxin in heart failure with sinus rhythm (human)
R01HL-23653-01 Protection of the ischemic myocardium (dogs)
N01HV-62960-00 Techniques to protect ischemic myocardium and minimize infant size (human)

HEART VISUALIZATION, RADIOCARDIOGRAPHY*

R01HL-15016-07 New concepts in cardiac ultrasound technology (human)
R01HL-15781-06 Guided vascular obliteration of CNS vascular lesions (human)
P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
R01HL-18968-03 Computer technology for transaxial tomography
** R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
R01HL-20674-02 Evaluation of cardiac function with radioactive tracers
R01HL-23201-01 Mechanisms of hypertension (human, rats)
** R01HL-23983-01 Quantitative radiocardiography (human, dogs)
N01HV-72930-02 Atherosclerosis assessment--Angiography and ultrasound (dogs, human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

HEAT
SEE TEMPERATURE, HEAT

HEAT EXHAUSTION
SEE INJURIES, TEMPERATURE DEPENDENT, HEAT INDUCED

HEAT INJURY
SEE INJURIES, TEMPERATURE DEPENDENT, HEAT INDUCED

HEAT STABILITY-LABILITY
SEE TEMPERATURE, HEAT STABILITY-LABILITY

HEAT STIMULUS
SEE TEMPERATURE, HEAT, CALORIC STIMULATION

HEAT STRESS
SEE ENVIRONMENT, STRESS, HEAT INDUCED

HEATING, AIR CONDITIONING, VENTILATION
SEE ENVIRONMENT CONTROLLED

HEAVY METALS
SEE METALS, HEAVY METALS

HELA CELLS
SEE NEOPLASTIC CELLS, HELA CELLS

HELIUM
SEE GAS ELEMENTS, HELIUM

HELMINTH ANTIGENS
SEE IMMUNOLOGY, ANTIGENS HELMINTHIC

HELMINTH INFECTIONS
SEE PARASITIC DISEASES, HELMINTH INFECTIONS (GENERAL)

HELMINTHS, ANNELIDS, LEECHES
SEE ALSO BLOOD COAGULATION, HIRUDEN
** R01HL-22227-01 A new source of hyaluronidase and anticoagulants (leeches)

HELMINTHS, NEMATODES, ASCARIS
** P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)

HELPER T LYMPHOCYTES
SEE BLOOD CELLS, T LYMPHOCYTES, HELPER

HEMAGGLUTINATION
SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, HEMAGGLUTINATION*

HEMAGGLUTINATION INHIBITION
SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, HEMAGGLUTINATION INHIBITION*

HEMAGGLUTININS (ANTIBODY)
SEE IMMUNOLOGY, ANTIBODIES, HEMAGGLUTININS

HEMAGGLUTININS (PLANT)
SEE PLANTS PROTEINS, LECTINS

HEMANGIOENDOTHELIOMA
SEE NEOPLASMS OF CARDIOVASCULAR SYSTEM, HEMANGIOENDOTHELIOMA

HEMANGIOMA
SEE NEOPLASMS OF CARDIOVASCULAR SYSTEM, HEMANGIOMA

HEMATOCRIT
SEE BLOOD (HEMATOLOGIC) TESTS, BLOOD CELL COUNT*

HEMATOLOGIC AGENTS
SEE BLOOD AND RE DRUGS (GENERAL)

HEMATOLOGIC TESTS
SEE BLOOD (HEMATOLOGIC) TESTS*

HEMATOLOGY
SEE BLOOD AND RE SYSTEM, HEMATOLOGY

HEMATOLOGY STUDY SECTION
** R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
** R01HL-01648-31 Blood coagulation and hemophilia (dogs, swine)
** R01HL-01661-27 Hemostatic mechanisms (human)
** R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
** R01HL-02262-23 Mechanisms regulating plasma proteins and solutes (human, dogs)
** R01HL-02799-22 Abnormal hemoglobins (human)
** R01HL-03357-21 Humoral control of blood cell formation and release (rats, mice)
** R01HL-03424-21 Formation and properties of prothrombin derivatives (human, animals)
** R01HL-04612-20 Feedback between red cell production and oxygen transport (rabbits, rats)
** R01HL-05168-19 Inhomogencity of hemoglobin types (human)
** R01HL-05351-18 Blood group antigens and antibodies (human, rabbits, sheep)
** R01HL-05791-18 Structure and function in hemoglobins (human)
** R01HL-06242-18 Kinetic studies of blood (human)
** R01HL-06950-17 Red cell metabolism (human, vertebrates)
** R01HL-07379-13 Structure and function of fibrinogen (human)
** R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
** R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)
** R01HL-10036-13 Biology of red cell antigen-antibody reaction (human)
** R01HL-10567-12 Erythropoietin--Immunoassay and characterization (dogs)
** R01HL-10880-13 Purification of human erythropoietin for research use
** R01HL-11154-12 Blood group antigens and antibodies (human)
** R01HL-11172-12 Physiology and biochemistry of fibrinolytic enzymes (human, animals)
** R01HL-11686-09 Dynamics of thrombus formation and dissolution (human, chickens)
** R01HL-11775-11 Platelet mechanisms in disease (human, primates)
** R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
** R01HL-12820-09 In vitro regulation of prothrombin activation
** R01HL-12944-09 Enzymatic and biochemical studies on blood cells (human)
** R01HL-12972-09 Glutathione deficiency in red cells (sheep, dogs)
** R01HL-12994-09 The Rh complex of red cells (human)
** R01HL-13160-08 Human thrombin (also cattle)
** R01HL-13198-21 Blood coagulation--Physico-chemical properties (human, cattle)
** R01HL-13336-09 Biochemistry and physiology of human platelets
** R01HL-13423-08 Structure-function studies of plasminogen and plasmin (human)
** R01HL-13585-05 Heterogeneity of NADH methemoglobin reductase (human)
** R01HL-13629-08 Hemorrhagic diseases (human)
** R01HL-13881-08 The American Red Cross National Fractionation Center
** R01HL-14131-18 Abnormal hemoglobin syndromes (human)
** R01HL-14344-07 Platelet function and adenine nucleotide metabolism (human)
** R01HL-14595-07 Primary disorders of platelet function (human, rats)
** R01HL-14637-05 Thrombopoietin--Immunoassay and characterization (mice)
** R01HL-14697-07 Role of platelet membranes in hemostasis (human)
** R01HL-14739-06 The role of leukocytes in thrombotic disease (human, dogs)
** R01HL-14847-07 Mechanism of action of vitamin K and anticoagulants (rats)
** R01HL-14890-07 Platelet prostaglandins (human, rabbits)
** R01HL-14992-07 Mechanism of thrombin action (human)
** R01HL-15215-06 Role of complement in intravascular coagulation (rabbits, mice)
** R01HL-15226-06 Interaction of blood cells with fibrinogen and fibrin (human, animals)
** R01HL-15230-05 Molecular basis of V Willebrand's disease and hemophilia (human, cattle)
** R01HL-15335-06 The nature of the collagen-platelet interaction (animals)
** R01HL-15474-06 Structure and function of the antihemophilic factor (human, cattle)
** R01HL-15491-06 Blood coagulation--Platelet-plasma protein interaction (human)
** R01HL-15615-06 Structure-function studies of human factor VIII/vWF
** R01HL-15616-04 Platelet membrane proteins in aggregation (human)
** R01HL-15619-05 Regulation of prothrombin synthesis in cultured cells (rats)
** R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)
** R01HL-15685-05 Hemopoietic regulators produced in cell culture (human, animals)
** R01HL-15690-07 Hydrolytic enzymes of blood in health and disease (human, animals)
** R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
** R01HL-15793-06 Molecular aspects of erythrocyte membrane resealing (human)
** R01HL-15817-06 Plasminogen activators from tissues (human, pig, cattle)
** R01HL-15887-05 Enzymes of blood coagulation and fibrinolysis (human)
** R01HL-16150-05 Primary structure of prothrombin (cattle, human)
** R01HL-16238-05 Protein structure in coagulation and fibrinolysis (human)
** R01HL-16346-09 Enzyme assay for blood clotting (human)
** R01HL-16355-05 Reactions of thrombin and collagen with platelets (human)
** R01HL-16361-03 Fibrin complexes in intermediary coagulation (human, rabbits)
** R01HL-16375-04 Investigation of hemoglobin S properties (human)
** R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
** R01HL-16633-04 Chemistry and biology of factor IX activator (human, mice, rats)
** R01HL-16642-05 Biochemistry and pathophysiology of plasma kallikrein (human, animals)
** R01HL-16646-05 Pathobiology of thromboembolic disorders (human)
** R01HL-16654-06 Regulation in developing erythroid cells (human)
** R01HL-16675-05 Human urinary erythropoietin collection
** R01HL-16720-02 Platelet aggregation (human)
** R01HL-16757-04 'Autoimmune' thrombocytopenia (monkey)
** R01HL-16872-04 Antihemophilic factor (human)
** R01HL-16919-05 Proteins of blood coagulation (human, bovine)
** R01HL-16931-04 Red cell storage and transfusion (human, animals)
** R01HL-16955-05 Heparin, blood coagulation and lipid metabolism (human)
** R01HL-17513-04 Role of PF-4 in detecting and promoting thrombosis (human, primates)
** R01HL-17726-03 Bacterial heparinase in diagnostic coagulation studies
** R01HL-17729-04 Stimulus-response coupling in platelets (human)
** R01HL-17752-03 Purified human clotting factor IX--Immunologic studies (human)
** R01HL-17881-15 Biosynthesis and degradation of blood group substances (human, animals)
** R01HL-17930-03 Platelet membrane function--Assessment and application (animals)
** R01HL-17964-04 The alternate pathway for fibrinolysis (human)
** R01HL-18012-04 Cellular defects in nocturnal hemoglobinuria (human)
** R01HL-18030-04 The role of contractile proteins in platelets (human, rabbits)
** R01HL-18068-02 Chemistry and activity of homologous heparin fractions (rodents)
** R01HL-18082-03 Erythrocyte phosphates and vertebrate gas transport (amphibians, reptiles)
** R01HL-18249-04 Isolation and identification of platelet membrane (human)
** R01HL-18284-04 Aging erythrocytes--Bio-recognition and elimination (monkeys)
** R01HL-18333-05 Thrombogenesis and hemostatic balance (rabbits, human)
** R01HL-18435-03 Properties of thrombin and Ac-globulin (human, animals)
** R01HL-18502-03 Enzymatic regulation of platelet function (human)
** R01HL-18507-03 Clinical studies of Fletcher factor (human)
** R01HL-18551-03 Spectrin, actin, lipid and red cell membrane structure
** R01HL-18584-03 Effects of physical forces on platelets (human)
** R01HL-18586-03 Role of platelet lipids in hemostasis and thrombosis (human)
** R01HL-18618-04 Purification and function of human HMW kininogen
** R01HL-18650-03 Platelet collagen interaction (human)
** R01HL-18672-03 Dynamic studies of clot structure formation (human)
** R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
** R01HL-18852-03 Biochemical studies on the blood coagulation process (human, cattle)
** R01HL-18859-03 Biochemistry of human factor XI (human)
** R01HL-18935-03 Platelets, fibrinogen, soluble fibrin interaction (human)
** R01HL-18937-03 Cyclic nucleotides and calcium in platelets (human)
** R01HL-19105-02 Detection and adherence of fibrin monomer complexes (human)
** R01HL-19131-04 Hypercoagulability and assays for its protection (human)
** R01HL-19267-02 Serial comparative study of Von Willebrand's disease (human)
** R01HL-19270-03 Effects of erythropoiesis on platelets and hemostasis (rats)
** R01HL-19272-03 Studies on the Passovoy factor (human)
** R01HL-19278-03 Ristocetin induced platelet aggregation (human)
** R01HL-19282-03 Regulation of the activation of human factor X
** R01HL-19322-03 Role of pituitary hormones in the action of vitamin K (rats)
** R01HL-19323-03 Studies of platelet microtubule protein
** R01HL-19324-02 Mechanisms of the inhibition of sickling by DBA (human)
** R01HL-19331-03 Hirudin isolation and utilization (leeches)
** R01HL-19333-03 Hematopoietic chimerism (mice, monkey)
** R01HL-19646-03 An immunologic study of hemoglobin variation in man
** R01HL-19767-01 Pathochemistry of fibrinogen (humans)
** R01HL-19933-02 Membrane and red cell dysfunction in hemolytic anemia (human)
** R01HL-19996-02 Role of membrane proteins in platelet function (human, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-20014-02 Radioimmunoassey of hyper end hypocoagulable stetes (rabbits)
** R01HL-20074-02 Structure and function of emidinated human hemoglobin
** R01HL-20092-02 Structurel and biologicel properties of fibrinogen (human, rabbits)
** R01HL-20114-02 Collagen-platelet interection end humen aorta collagen (human)
** R01HL-20140-02 Glycoproteins of pletelet membrene end platelet function (humen)
** R01HL-20141-02 Biochemicel epproeches to menegement of iron overload (humen, sheep, dogs)
** R01HL-20142-02 Functional studies of abnormel humen hemoglobins
** R01HL-20218-02 Fibrinogen cetebolism and intravascular coagulation (human)
** R01HL-20303-03 Cholesterol distribution in erythrocyte membrane (human, animels)
** R01HL-20317-02 Procoagulant lipoproteins--Biochemistry and bioectivity (goats, rabbits)
** R01HL-20577-03 The mechanism of action of vitamin K
** R01HL-20750-01 Studies in sickle cell diseese (humen)
** R01HL-20826-02 Megekeryocyte proliferation and its control (mice)
** R01HL-20846-02 Purification of bovine plasminogen proactivator
** R01HL-20920-01 Control of hemoglobin synthesis (beboon)
** R01HL-20925-01 The acetylation of fetel hemoglobin (human)
** R01HL-20971-10 Membrane glycoproteins of platelets and leukocytes (human)
** R01HL-21113-01 Control mechenisms in coegulation (cattle)
** R23HL-21128-02 ATP utilization in pletelet contrectile mechanisms (human, rebbits)
** R23HL-21129-02 The antisickling effects of imidoesters
** R01HL-21139-02 Molecular biology of fector XIII (human)
** R23HL-21208-02 Structure-function reletionships of humen factor VIII
** R01HL-21379-01 Structure of factor VIII-Von Willebrend protein (human)
** R23HL-21428-02 Expression of human globin in thalassemia (human)
** R01HL-21431-02 Factor II antigen and coagulant activity (human, animals)
** R01HL-21469-01 Active transport and effect of CA00 in sickle cell (human)
** R01HL-21487-01 Molecular characterizetion of Glanzmann's thrombasthenie (human)
** R23HL-21490-02 Studies of enzymes in human platelet membranes
** R01HL-21543-02 Structure-function reletion of blood clotting proteins (rabbits)
** R01HL-21544-02 Proteins of coagulation and Hegemen factor pathweys (human, goats)
** R23HL-21730-01 vWegII--A new vWD deficient entigen (human)
** R01HL-21975-01 Studies on normal and abnormal factor IX (human, dogs, cows)
** R01HL-21988-01 Biochemistry of human platelet chemotaxis
** R01HL-22035-01 Molecular modificetion of heparin by chemicel means (sheep)
** R01HL-22119-01 Biochemistry of platelet function in thrombosis and cell growth (rabbits)
** R01HL-22227-01 A new source of hyaluronidase end anticoagulants (leeches)
** R01HL-22289-01 Endotheliel cell mediated fibrinolysis (rebbits)
** R01HL-22355-01 Purification, structure and function of fector VIII (human)
** R01HL-22471-01 Biochemistry of prothrombin quick (human)
** R01HL-22502-01 Role of phosphoinositides in humen platelet secretion
** R01HL-22505-01 Moleculer pathology of fibrinogen end factor XIII (human, enimals)
** R23HL-22621-01 Blood cell-mediated pulmonery (human)
** R01HL-22650-01 Regulatory mechanisms of erythropoietin production (human, rats, mice)
** R01HL-22780-01 Factors modifying the reaction properties of HgS (human)
** R23HL-22799-01 Interaction of the complement and coegulation systems (monkeys)
** R01HL-22951-01 Studies on the effect of vitemin E on platelets (human, rats)
** R01HL-22955-01 inetics of prothrombin activation
** R01HL-22980-01 Kinetic and mechanistic studies of blood coagulation (human, cattle)
** R01HL-23108-01 Membrane biochemistry of RH antigens (human)
** R01HL-23200-01 Isoletion of CA binding proteins from erythrocytes (human)
** R01HL-23736-04 Sickle cell anemia and hemoglobin synthesis (monkeys)
** R01HL-24021-02 Erythocyte membrane sulfhydrls and Rh activity (human)

HEMATOPOIESIS
SEE BLOOD AND RE SYSTEM, HEMATOPOIESIS

HEMATOPOIETIC FACTORS
SEE BLOOD ANO RE SYSTEM, HEMATOPOIETIC FACTORS

HEMATOPOIETIC STEM CELLS
SEE BLOOD CELLS, HEMATOPOIETIC STEM CELLS (GENERAL)

HEMATOPOIETIC TISSUE
SEE BLDDD AND RE SYSTEM, HEMATOPOIETIC TISSUE

HEME
SEE ALSO HEMOPROTEINS
R01HL-14508-10 Structure and function of respiretory hemoproteins
** R01HL-17794-03 Chelating agents es blood substitutes
P01HL-18708-03 0003 Oxygen, energy end contractility in cerdiac tissue - Structural-functional studies on cytochrome c oxidase
P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilizetion (rets, dogs)
R01HL-21159-02 Pathophysiological effects of hypoxie (rats)
** R01HL-21461-01 Heme group protein interections in hemoproteins
** R01HL-22252-01 Synthesis of lebeled hemes for protein NMR studies

HEME, FERRIHEME
R01HL-13652-08 Metal sites in metelloproteins (mushroom)
P60HL-16005-05 0013 Comprehensive sickle cell center - Study of reguletion of erythropoiesis in vitro (human, rat, hamster, rabbit)
R01HL-16931-04 Red cell storage end trensfusion (humen, animels)

HEMERYTHRIN
SEE METALLOPROTEINS, HEMERYTHRIN

HEMOCHROMATOSIS
SEE METABOLIC OISOROERS INBORN, HEMDCHROMATOSIS

HEMOCHROMATOSIS, SECONDARY
SEE IRON OISORDERS AND IMBALANCES, HEMOSIOEROSIS

HEMOCHROMES, FERRIHEMOCHROMES
P60HL-15157-07 0012 Comprehensive center for sickle cell disease - Sickling and intrecelluler pH (human)

HEMOCYANIN
SEE METALLOPROTEINS, HEMOCYANIN

HEMOCYTES
SEE BLOOO CELLS

HEMODIALYSIS
SEE BLOOO TREATMENT, HEMOOIALYSIS

HEMODYNAMICS
SEE CARDIOVASCULAR FUNCTION, BLOOO CIRCULATION DYNAMICS (GENERAL)

HEMOERYTHRIN
SEE METALLOPROTEINS, HEMERYTHRIN

HEMOGLOBIN
SEE HEMOPROTEINS, HEMOGLOBIN

HEMOGLOBIN A2
SEE HEMOPROTEINS, HEMOGLOBIN A2

HEMOGLOBIN-BINDING ALPHA2-GLOBULIN (SERUM)
SEE HEMOPROTEINS, HAPTOGLOBINS

HEMOGLOBIN C
SEE HEMOPROTEINS, HEMOGLOBIN C

HEMOGLOBIN D
SEE HEMOPROTEINS, HEMOGLOBIN O

HEMOGLOBIN F
SEE HEMOPROTEINS, HEMOGLOBIN F

HEMOGLOBIN H
SEE HEMOPROTEINS, HEMOGLOBIN H

HEMOGLOBIN S
SEE HEMOPROTEINS, HEMOGLDBIN S

HEMOGLOBINOPATHIES
SEE HEMOPROTEINS, HEMOGLOBINOPATHIES

HEMOLYSINS
SEE BLOOO TOXICOLOGY, HEMOLYSINS

HEMOLYSIS
SEE BLOOD CELLS, ERYTHROCYTES, HEMOLYSIS

HEMOLYTIC ANEMIA
SEE BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC

HEMOLYTIC ANEMIA CONGENITAL (FAMILIAL)
SEE BLDOO AND RE OISDRDERS, ANEMIA HEMOLYTIC CONGENITAL (GENERAL)

HEMOPHILIA
SEE BLOOO COAGULATION OISOROERS, HEMOPHILIA

HEMOPHILIA B
SEE BLOOO COAGULATION OISOROERS, CHRISTMAS OISEASE

HEMOPHILIA C
SEE BLDDD CDAGULATION DISOROERS, FACTDR XI DEFICIENCY

HEMOPROTEINS
SEE ALSO PERDXIDASES
** R01HL-12526-09 Remen spectra of heme proteins and releted molecules
** R01HL-13531-06 Coboglobins--Cobelt substituted myo- and hemoglobins
** R01HL-13581-11 Reections of oxygen with heme proteins
** R01HL-13651-07 X-rey photoelectron spectroscopy of heme compounds
** R01HL-13989-05 Role of weter in respiretiory protein structure
P01HL-14388-07 0175 Reguletion of the circuletion in pethologicel states - Functional studies of selected proteins from cardiac muscle
** R01HL-14508-10 Structure end function of respiratory hemoproteins
** R01HL-15980-06 Reections of hemeproteins end oxygen (cattle)
** R01HL-16087-05 Structural and dynemic study of model heme complexes (yeest)
** R01HL-16860-05 Mossbeuer studies of respiretory hemoproteins
R01HL-17826-04 Oxygen delivery to tissue (ret, dog)
** R01HL-21461-01 Heme group protein interections in hemoproteins
R01HL-22252-01 Synthesis of lebeled hemes for protein NMR studies

HEMOPROTEINS, CYTOCHROME
** P01HL-07896-15 0019 Environmental biomedicel research progrem - Hyperoxic myopie (humen)
P01HL-07896-15 0032 Environmentel biomedical reseerch progrem - Fluorometry study of brein exposed to hyperberic oxygen (dogs, cats)
** P01HL-07896-15 0051 Environmental biomedicel reseerch progrem - Relationships of retinel circuletion to diseese (rebbits)
R01HL-14508-10 Structure and function of respiratory hemoproteins
R01HL-15655-05 Blood flow and ges exchange in placenta and lungs (sheep) rabbits)
R01HL-18304-03 FT-infrared spectroscopy of heert muscle energetics (cattle)
P01HL-18708-03 0007 Oxygen, energy end contrectility in cardiec tissue - Surfeces, energy requirements, and contractile proteins of cerdiec cell in vitro
R01HL-19392-03 Spectroscopic studies of respiratory metalloproteins
R01HL-19481-03 High-field NMR studies of respiratory proteins (human, horse, fish, microbes)
R01HL-22252-01 Synthesis of labeled hemes for protein NMR studies
P01HL-22619-01 0010 Cellular mechanisms of heart feilure - Mitochondrie in heert end smooth muscle (rebbits, rats, dogs)

HEMOPROTEINS, CYTOCHROME A
R01HL-16686-04 Properties of cytochrome oxidase (cattle, bacteria)
R01HL-17559-03 Structural elucidation of heart cytochrome-C oxidase

HEMOPROTEINS, CYTOCHROME B
R01HL-13585-05 Heterogeneity of NADH methemoglobin reductase (human)
R01HL-13619-09 Microsomel electron transport in liver and heart (human, memmals)
P50HL-14217-08 0057 Specielized center of research in thrombosis - Pharmacology--Pletelet biochemistry (human, animal)
R01HL-14483-08 Energy conservetion in heert mitochondria (cattle, E coli, human)

HEMOPROTEINS, CYTOCHROME C
P01HL-12157-11 0051 Functions and mechanisms of cell membrene ion transport - Electron transport in the red cell membrane (humen, guinea pigs)
R01HL-13651-07 X-ray photoelectron spectroscopy of heme compounds
R01HL-13652-08 Metel sites in metelloproteins (mushroom)
R01HL-14483-08 Energy conservation in heert mitochondrie (cettle, E coli, humen)
R01HL-15104-07 A mechanism for oxidative phosphorylation
** R01HL-16686-04 Properties of cytochrome oxidase (cettle, becterie)
R01HL-17559-03 Structurel elucidetion of heert cytochrome-C oxidase
R23HL-19605-01 Lipid requirement of the lung mono-oxygenese system (rabbits)
P01HL-20592-02 0010 Cell biology of cerdiac and skeletel muscle - Mitochondriel genesis during myocerdial cell hypertrophy end hyperplesie (rats)
R01HL-22050-01 Organizetion of succinic oxidase in heert

HEMOPROTEINS, CYTOCHROME P450
R01HL-06975-18 Pethogenesis and prevention of hypertension (rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grent hes subprojects describing specific research espects.
See Appendix for investigator's name and grant number.

** P01HL-08899-14 0062 Tolerance to respiratory gases in health and disease - Influence of oxygen at high pressure upon oxidation (rats)
P01HL-10342-13 0014 The integrated function of respiration and circulation - Oxygen and carbon monxide transfer (human, dogs, sheep)
** P01HL-10342-13 0024 The integrated function of respiration and circulation - Cytochrome P450 and physiological response to hypoxia (rats)
R01HL-12526-09 Raman spectra of heme proteins and related molecules
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
R01HL-13531-06 Coboglobins--Cobalt substituted myo- and hemoglobins
R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
R01HL-13652-08 Metal sites in metalloproteins (mushroom)
P01HL-14388-07 0175 Regulation of the circulation in pathological states - Functional studies of selected proteins from cardiac muscle
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbit
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
R23HL-19605-01 Lipid requirement of the lung mono-oxygenase system (rabbits)
R01HL-19772-02 Role of warfarin metabolism in antivitamin K activity (rats)
R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)

HEMOPROTEINS, HAPTOGLOBINS

** R01HL-16445-05 Regulation of plasma protein biosynthesis (rats, rabbits)
R01HL-16601-05 Structure and function of blood proteins (human, cattle)
P01HL-21016-02 0014 Sickle cell anemia and other hemoglobinopathies - Human hemoglobin mutants with abnormal oxygen binding

HEMOPROTEINS, HEMOGLOBIN

SEE ALSO BILE PIGMENTS
SEE ALSO HEMOPROTEINS, HEMOGLOBINOPATHIES
SEE ALSO HEMOPROTEINS, MYOGLOBIN
N01HB-22919-08 Hemoglobin carbamylation in the treatment of sickle cell anemia (human, dogs)
R01HL-02558-22 Structure-function relationships in the heme proteins (human, cattle)
R01HL-02799-22 Abnormal hemoglobins (human)
R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
** R01HL-05168-19 Inhomogencity of hemoglobin types (human)
** R01HL-05556-19 Proteins,S) lipoproteins--Structure and reactivity (chicken, human, diving mammals)
** R01HL-05791-18 Structure and function in hemoglobins (human)
P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changes in lymphocytes (human, mice)
** R01HL-07451-16 Hemoglobin S gelation and hemoglobin allostery (human)
** R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
P01HL-08805-15 0025 Regulation of ventilation and pulmonary circulation - Pulmonary edema (rabbits)
P01HL-08899-14 0010 Tolerance to respiratory gases in health and disease - High oxygen pressure in septic shock (human)
** R01HL-09906-13 0019 Membrane transport processes in red blood cells - Hemoglobin change and membrane potentials in red blood cells at varying volumes
** R01HL-10383-12 Physical-chemical studies of hemoglobins and erythrocyte (human)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
R01HL-12256-15 Polymerization of sickle-cell hemoglobin (human)
** R01HL-12524-10 Reaction of hemoglobin with ligands and antibodies (human, carp)
R01HL-12526-09 Raman spectra of heme proteins and related molecules
** R01HL-13157-09 Molecular oxygen carriers--Synthesis, structure, bonding
** R01HL-13164-07 Interaction of the alpha and beta chains of human hemoglobin
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
R01HL-13531-06 Coboglobins--Cobalt substituted myo- and hemoglobins
R01HL-13581-11 Reactions of oxygen with heme proteins
R01HL-14127-16 Methemoglobinemia and antihypertensive drugs (cats, mice, rats)
P50HL-14236-05 0006 Prevention of premature arteriosclerosis - Carbohydrate metabolism and hypertriglyceridemia (human)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
R01HL-14508-10 Structure and function of respiratory hemoproteins
** R01HL-14680-07 Specific enrichment of myoglobins for carbon 13 NMR (catacea)
** R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)
P60HL-15158-07 0008 Comprehensive sickle cell center - Core laboratory of the center
** P60HL-15158-07 0014 Comprehensive sickle cell center - Mechanism of sickling in human and deer hemoglobins
** P60HL-15158-07 0016 Comprehensive sickle cell center - Biochemical studies in sickle cell anemia (human)
** P60HL-15158-07 0020 Comprehensive sickle cell center - Immunochemical investigation of hemoglobin variants (human)
** P60HL-15170-05 0017 Support for center for sickle cell anemia - Control of hemoglobulin synthesis (human)
P01HL-15194-07 0006 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Velocity of Bohr effect in erythrocytes (human)
P01HL-15194-07 0009 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Diffusion and erythrocytes reaction rates (human, dogs)
** R01HL-15284-06 Hemoglobin and myoglobin kinetic studies (human, animals)
** R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)
R01HL-15627-06 X-ray and chemical studies of metalloporphyrins
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
** P60HL-15999-05 0019 Miami comprehensive sickle cell center - Fetal-adult hemoglobin switch (mouse, monkey)
** R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
R01HL-16375-04 Investigation of hemoglobin S properties (human)
R01HL-16490-04 Structural basis of nephron filtration (rats, rabbits)
R01HL-16601-05 Structure and function of blood proteins (human, cattle)
M P01HL-16833-04 Hemoglobin and red cell system in hemoglobinopathies
** P01HL-16833-04 0011 Hemoglobin and red cell system in hemoglobinopathies - Relationship between hemoglobin and RBC membrane in sickling cells (human, rats)
** P01HL-16833-04 0015 Hemoglobin and red cell system in hemoglobinopathies - Stereochemistry of hemoglobins from magnetic circular dichroism (human)
P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
R01HL-16860-05 Mossbauer studies of respiratory hemoproteins
** R01HL-16891-05 The folding of hemoglobin
** R01HL-16927-05 Structure and function of normal and abnormal hemoglobin (human)
** R01HL-17494-07 Mechanism of liqand binding to hemoglobin (human)
** R01HL-17710-04 Selective replication of hemoglobin genes (mice, ducks, human)
R01HL-17844-04 Artificial blood substitutes--02-binding iron chelates (human, mammals)
R01HL-17967-04 Limiting factors in oxygen uptake in the lung
R01HL-18163-04 Red cell membrane effects due to oxidizing agents
P01HL-18208-04 0006 Center for the study of blood cell rheology - Analysis of flow in arterioles and capillaries (human)
** R01HL-18226-04 Mechanism of oxygen supply to tissue (human, animals)
** R01HL-18309-04 Oxygen transport--Hemoglobins with modified hemes (horse)
** R01HL-18328-03 Hemoglobin function and tissue oxygenation (human, dogs)
P01HL-18646-03 0010 Studies basic to heart transplantation - Development and study of a heart preservation chamber (dogs, sheep)
R01HL-18725-03 Light-scattering studies of the sickling process (human)
R01HL-18737-03 Human erythrocyte membrane structure
R01HL-18762-03 Post-traumatic pulmonary insufficiency (dogs)
R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)
R01HL-18984-01 P50 effect on exercise limit in stable angina (human)
R01HL-19481-03 High-field NMR studies of respiratory proteins (human, horse, fish, microbes)
** R01HL-19488-03 Picosecond laser studies of heme-proteins
R01HL-19532-01 Oxygen toxicity in the red cell (human)
P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport
** R01HL-20074-02 Structure and function of amidinated human hemoglobin
** R01HL-20751-01 High speed liquid chromatography of hemoglobins (human)
** R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)
** P01HL-21016-02 0003 Sickle cell anemia and other hemoglobinopathies - Role of non-S hemoglobin in gelation and sickling
** P01HL-21016-02 0015 Sickle cell anemia and other hemoglobinopathies - EPR study of NO derivatives of Hb Beth Israel (human)
R01HL-21461-01 Heme group protein interactions in hemoproteins
** R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin
** R01HL-21831-05 Determining sequences from hemoglobin messenger RNA (mice, chickens, rabbits)
R01HL-22252-01 Synthesis of labeled hemes for protein NMR studies
** R01HL-22325-01 Thermodynamics in respiratory protein binding (human, trout)
R01HL-23267-01 Rheology and kinetics of hemoglobin S gelation (human)
** R01HL-24048-01 Regulation of hemoglobin synthesis in chick embryos

HEMOPROTEINS, HEMOGLOBIN, METHEMOGLOBIN

SEE ALSO HEMOPROTEINS, METHEMOGLOBINEMIA
** R01HL-13585-05 Heterogeneity of NADH methemoglobin reductase (human)
R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
R01HL-14127-16 Methemoglobinemia and antihypertensive drugs (cats, mice, rats)
P60HL-15157-07 0012 Comprehensive center for sickle cell disease - Sickling and intracellular pH (human)
P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
R01HL-19463-02 Pathophysiology of acute renal failure (rats)
P60HL-20985-01 0006 Northern California sickle cell center - Antisickling properties of imidoesters (human, rats)

HEMOPROTEINS, HEMOGLOBIN, OXYHEMOGLOBIN

R01HL-06950-17 Red cell metabolism (human, vertebrates)
R01HL-13412-17 Synthetic oxygen carriers
P60HL-15157-07 0012 Comprehensive center for sickle cell disease - Sickling and intracellular pH (human)
R01HL-16654-06 Regulation in developing erythroid cells (human)
R01HL-16860-05 Mossbauer studies of respiratory hemoproteins
R01HL-17552-03 Sickling inhibition by chemical modification of hemoglobin (human)
R01HL-18710-02 Non-invasive reflection oximetry in peripheral tissue (dogs)
R01HL-19324-02 Mechanisms of the inhibition of sickling by DBA (human)
P01HL-19737-02 0006 Cellular and molecular aspects of respiratory physiology - Tissue oxygenation and mitochondrial respiratory activity (sheep)
R01HL-20074-02 Structure and function of amidinated human hemoglobin
R01HL-20142-02 Functional studies of abnormal human hemoglobins
P01HL-21016-02 0003 Sickle cell anemia and other hemoglobinopathies - Role of non-S hemoglobin in gelation and sickling
** R23HL-22621-01 Blood cell-mediated pulmonary (human)
R01HL-22650-01 Regulatory mechanisms of erythropoietin production (human, rats, mice)
R01HL-22780-01 Factors modifying the reaction properties of HgS (human)

HEMOPROTEINS, HEMOGLOBIN A2

P60HL-15158-07 0008 Comprehensive sickle cell center - Core laboratory of the center
P60HL-15158-07 0016 Comprehensive sickle cell center - Biochemical studies in sickle cell anemia (human)
P60HL-15158-07 0020 Comprehensive sickle cell center - Immunochemical investigation of hemoglobin variants (human)
P60HL-15160-07 0012 Center for sickle cell disease - Core laboratories
P60HL-15162-07 0007 Comprehensive sickle cell center - Core program--Demographic studies (human)
P60HL-15162-07 0018 Comprehensive sickle cell center - Biochemical and genetic studies of sickle cell anemia (human)
P60HL-15162-07 0020 Comprehensive sickle cell center - Biophysical studies of normal and sickle red cells (human)
P60HL-15168-07 0001 Comprehensive sickle cell disease center - Screening program (human)
P60HL-15169-05 0019 Support for center for sickle cell disease - Central screening and reference laboratory
P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)
P60HL-16008-06 0020 Wayne State University comprehensive sickle cell center - Genetic and physiological studies of sickle cell anemia (human)
R01HL-16646-05 Pathobiology of thromboembolic disorders (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-16833-04 0001 Hemoglobin and red cell system in hemoglobinopathias - Motility, association and ligand binding in hemoglobin--Hydrogen exchange
** P01HL-16833-04 0002 Hemoglobin and red coll system in hemoglobinopathies - Polymerization and gal formation in solutions of hemoglobin A and S (human)
** P01HL-16833-04 0003 Hemoglobin and red cell system in hemoglobinopathies - Oxygen binding curves and equilibria (human)
** P01HL-16833-04 0004 Hemoglobin and red cell system in hemoglobinopathies - Purification and fractionation of hemoglobin A and S (human)
** P01HL-16833-04 0006 Hemoglobin and red cell system in hemoglobinopathies - Role of water in function of hemoglobin and myoglobin (human)
R01HL-19646-03 An immunologic study of hemoglobin variation in man
** R01HL-20393-03 Postsynthetic modifications of hemoglobin in diabetics (human)
R01HL-20520-03 Protein modification--The key to diabetic sequelae (human, animal)
** R01HL-20539-03 Blood glucose, hemoglobin A1c, and diabetic vascular disease (human)
** R01HL-20920-01 Control of hemoglobin synthesis (baboon)
P01HL-21016-02 0003 Sickle cell anemia and other hemoglobinopathies - Role of non-S hemoglobin in gelation and sickling
P01HL-21016-02 0004 Sickle cell anemia and other hemoglobinopathies - Kinetics of sickling
P01HL-21016-02 0009 Sickle cell anemia and other hemoglobinopathies - Nitrogen mustards and their potential use as antisickling agent
R01HL-22780-01 Factors modifying the reaction properties of HgS (human)

HEMOPROTEINS, HEMOGLOBIN C

P60HL-15158-07 0008 Comprehensive sickle cell center - Core laboratory of the center
P60HL-15158-07 0020 Comprehensive sickle cell center - Immunochemical investigation of hemoglobin variants (human)
P60HL-15162-07 0018 Comprehensive sickle cell center - Biochemical and genetic studies of sickle cell anemia (human)
P60HL-15168-07 0001 Comprehensive sickle cell disease center - Screening program (human)
P60HL-15169-05 0019 Support for center for sickle cell disease - Central screening and reference laboratory
R01HL-16375-04 Investigation of hemoglobin S properties (human)
** P01HL-16833-04 0006 Hemoglobin and red cell system in hemoglobinopathies - Role of water in function of hemoglobin and myoglobin (human)
R01HL-19646-03 An immunologic study of hemoglobin variation in man
P01HL-21016-02 0001 Sickle cell anemia and other hemoglobinopathies - Supramolecular models of Hb S--Mutational and EM approach
P01HL-21016-02 0014 Sickle cell anemia and other hemoglobinopathies - Human hemoglobin mutants with abnormal oxygen binding

HEMOPROTEINS, HEMOGLOBIN D

P60HL-15158-07 0020 Comprehensive sickle cell center - Immunochemical investigation of hemoglobin variants (human)
R01HL-16375-04 Investigation of hemoglobin S properties (human)

HEMOPROTEINS, HEMOGLOBIN F

P60HL-15158-07 0004 Comprehensive sickle cell center - Expression of abnormal hemoglobin synthesis in the neonate and young child
P60HL-15158-07 0016 Comprehensive sickle cell center - Biochemical studies in sickle cell anemia (human)
P60HL-15158-07 0020 Comprehensive sickle cell center - Immunochemical investigation of hemoglobin variants (human)
P60HL-15160-07 0012 Center for sickle cell disease - Core laboratories
P60HL-15162-07 0007 Comprehensive sickle cell center - Core program--Demographic studies (human)
P60HL-15162-07 0018 Comprehensive sickle cell center - Biochemical and genetic studies of sickle cell anemia (human)
P60HL-15169-05 0019 Support for center for sickle cell disease - Central screening and reference laboratory
P60HL-16005-05 0022 Comprehensive sickle cell center - Regulation of erythropoiesis in patients with sickle cell anemia
P60HL-16008-06 0020 Wayne State University comprehensive sickle cell center - Genetic and physiological studies of sickle cell anemia (human)
** P01HL-16851-04 0005 Human red cell membrane in health and disease - Relation of hemoglobin species to membrane properties (human)
** R01HL-20899-02 Cellular mechanisms of hemoglobin F regulation (human)
** R01HL-20905-02 Synthesis of fetal hemoglobin in erythroid cells (sheep, human)
** R01HL-20920-01 Control of hemoglobin synthesis (baboon)
** R01HL-20922-02 Control of human fetal hemoglobin synthesis
** R01HL-20939-02 Regulation of fetal homoglobin in humans
R01HL-22780-01 Factors modifying the reaction properties of HgS (human)

HEMOPROTEINS, HEMOGLOBIN FETAL

SEE ALSO HEMOPROTEINS, HEMOGLOBIN F
** R01HL-02558-22 Structure-function relationships in the heme proteins (human, cattle)
** R01HL-05168-19 Inhomogeneity of hemoglobin types (human)
R01HL-15125-07 Molecular pathology of genetic disorders in man
P60HL-15160-07 0011 Center for sickle cell disease Study of human sickle cells in an animal model (rats)
P60HL-15168-07 0001 Comprehensive sickle cell disease center - Screening program (human)
** P60HL-15999-05 0019 Miami comprehensive sickle cell center - Fetal-adult hemoglobin switch (mouse, monkey)
P60HL-15999-05 0021 Miami comprehensive sickle cell center - Diphosphonates-Erythrocyte calcium loading, maturation (human, chick embryo)
P60HL-16005-05 0013 Comprehensive sickle cell center - Study of regulation of erythropoiesis in vitro (human, rat, hamster, rabbit)
P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)
P01HL-16851-04 0005 Human red cell membrane in health and disease - Relation of hemoglobin species to membrane properties (human)
R01HL-19532-01 Oxygen toxicity in the red cell (human)
R01HL-19646-03 An immunologic study of hemoglobin variation in man
R01HL-20912-02 Control on non-alpha chain synthesis in thassemic mice
R01HL-20913-02 Cell culture studies of hemoglobinopathies (human)
** R01HL-20925-01 The acetylation of fetal hemoglobin (human)
** R01HL-20939-02 Regulation of fetal hemoglobin in humans
R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)
** P01HL-21016-02 0012 Sickle cell anemia and other hemoglobinopathies - Stimulation of Hb F synthesis in a permanent cell line
R01HL-21831-05 Determining sequences from hemoglobin messenger RNA (mice, chickens, rabbits)
R01HL-23736-04 Sickle cell anemia and hemoglobin synthesis (monkeys)

HEMOPROTEINS, HEMOGLOBIN H

P60HL-20985-01 0005 Northern California sickle cell center - Molecular mechanism of alpha thalassemia--Relation to sickle cell anemia (human)
P01HL-21016-02 0014 Sickle cell anemia and other hemoglobinopathies - Human hemoglobin mutants with abnormal oxygen binding

HEMOPROTEINS, HEMOGLOBIN S

N01HB-62962-02 Red cell distributions in cyanate-treated blood (human, sheep)
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
R01HL-05791-18 Structure and function in hemoglobins (human)
P01HL-06285-18 0215 Cardiovascular-respiratory physiology and biochemistry - Conformation of biopolymers
** R01HL-07451-16 Hemoglobin S gelation and hemoglobin allostery (human)
R01HL-10383-12 Physical-chemical studies of hemoglobins and erythrocyte (human)
** R01HL-12256-15 Polymerization of sickle-cell hemoglobin (human)
P60HL-15157-07 0009 Comprehensive center for sickle cell disease - Red cell membrane alterations during sickling (human)
P60HL-15157-07 0011 Comprehensive center for sickle cell disease - Development of specific anti-sickling compound (human)
** P60HL-15157-07 0012 Comprehensive center for sickle cell disease - Sickling and intracellular pH (human)
P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
P60HL-15158-07 0004 Comprehensive sickle cell center - Expression of abnormal hemoglobin synthesis in the neonate and young child
P60HL-15158-07 0008 Comprehensive sickle cell center - Core laboratory of the center
P60HL-15158-07 0014 Comprehensive sickle cell center - Mechanism of sickling in human and deer hemoglobins
P60HL-15158-07 0016 Comprehensive sickle cell center - Biochemical studies in sickle cell anemia (human)
P60HL-15158-07 0020 Comprehensive sickle cell center - Immunochemical investigation of hemoglobin variants (human)
** P60HL-15160-07 0008 Center for sickle cell disease - Isocyanate derivatives and hemoglobin S association (human, rat)
P60HL-15160-07 0011 Center for sickle cell disease - Study of human sickle cells in an animal model (rats)
P60HL-15160-07 0012 Center for sickle cell disease Core laboratories
** P60HL-15162-07 0017 Comprehensive sickle cell center Hemoglobin, erythrocytes and sickle cell anemia (human, rabbit)
P60HL-15162-07 0018 Comprehensive sickle cell center Biochemical and genetic studies of sickle cell anemia (human)
P60HL-15162-07 0020 Comprehensive sickle cell center Biophysical studies of normal and sickle red cells (human)
P60HL-15168-07 0001 Comprehensive sickle cell disease center - Screening program (human)
** P60HL-15168-07 0009 Comprehensive sickle cell disease center - Spin-label study of sickling (human)
** P60HL-15169-05 0018 Support for center for sickle cell disease - Studies on sickle cell disease (human, rats, dogs)
P60HL-15169-05 0019 Support for center for sickle cell disease - Central screening and reference laboratory
** R01HL-15293-07 Sickle cell hemoglobin-Interactions and aggregation (human)
R01HL-15793-06 Molecular aspects of erythrocyte membrane resealing (human)
P60HL-15999-05 0004 Miami comprehensive sickle cell center - Education, screening and counseling
P60HL-15999-05 0014 Miami comprehensive sickle cell center - Biochemical and morphological parameters of sickle cells (human)
** P60HL-16005-05 0015 Comprehensive sickle cell center - Molecular basis for the sickling phenomenon
P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)
P60HL-16008-06 0016 Wayne State University comprehensive sickle cell center - Red blood cell glycolysis in sickle cell patients
** P60HL-16008-06 0017 Wayne State University comprehensive sickle cell center - Oxygen transport kinetics of pre- and post-sickling cells (human)
** P60HL-16008-06 0018 Wayne State University comprehensive sickle cell center - Hemoglobin S and RBC membranes--Pathogenesis of irreversibly sickled cells
** R01HL-16375-04 Investigation of hemoglobin S properties (human)
** R01HL-16654-06 Regulation in developing erythroid cells (human)
** P01HL-16833-04 0001 Hemoglobin and red cell system in hemoglobinopathies - Motility, association and ligand binding in hemoglobin--Hydrogen exchange
** P01HL-16833-04 0002 Hemoglobin and red cell system in hemoglobinopathies - Polymerization and gel formation in solutions of hemoglobin A and S (human)
** P01HL-16833-04 0003 Hemoglobin and red cell system in hemoglobinopathies - Oxygen binding curves and equilibria (human)
** P01HL-16833-04 0004 Hemoglobin and red cell system in hemoglobinopathies - Purification and fractionation of hemoglobin A and S (human)
** P01HL-16833-04 0006 Hemoglobin and red cell system in hemoglobinopathies - Role of water in function of hemoglobin and myoglobin (human)
** P01HL-16833-04 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)
** P01HL-16833-04 0017 Hemoglobin and red cell system in hemoglobinopathies - Sulfhydryl group blockade antisickling effect (human)
** P01HL-16851-04 0005 Human red cell membrane in health and disease - Relation of hemoglobin species to membrane properties (human)
** R01HL-16927-05 Structure and function of normal and abnormal hemoglobin (human)
** R01HL-17494-07 Mechanism of liqand binding to hemoglobin (human)
** R01HL-17552-03 Sickling inhibition by chemical modification of hemoglobin (human)
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
** R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)
** R01HL-19324-02 Mechanisms of the inhibition of sickling by DBA (human)
R01HL-19646-03 An immunologic study of hemoglobin variation in man
** R01HL-20074-02 Structure and function of amidinated human hemoglobin
R01HL-20750-01 Studies in sickle cell disease (human)
** P60HL-20985-01 0003 Northern California sickle cell center - Kinetics of sickling and clinical manifestations in sickling disorders (human)
M P01HL-21016-02 Sickle cell anemia and other hemoglobinopathies
** P01HL-21016-02 0001 Sickle cell anemia and other hemoglobinopathies - Supramolecular models of Hb S--Mutational and EM approach
** P01HL-21016-02 0002 Sickle cell anemia and other hemoglobinopathies - Molecular events proceeding gelation of Hb S

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-21016-02 0003 Sickle cell anemia and other hemoglobinopathies - Role of non-S hemoglobin in gelation and sickling
P01HL-21016-02 0004 Sickle cell anemia and other hemoglobinopathies - Kinetics of sickling
** P01HL-21016-02 0005 Sickle cell anemia and other hemoglobinopathies - Ligand kinetics in normal and Hb S containing erythrocytes (human)
** P01HL-21016-02 0006 Sickle cell anemia and other hemoglobinopathies - Analysis of the oxygen dissociation curve of Hb S-containing red cells
** P01HL-21016-02 0008 Sickle cell anemia and other hemoglobinopathies - The clinical variations of sickle cell anemia
P01HL-21016-02 0009 Sickle cell anemia and other hemoglobinopathies - Nitrogen mustards and their potential use as antisickling agent
P01HL-21016-02 0010 Sickle cell anemia and other hemoglobinopathies - Alkylureas as potential anti-sickling agents
** P01HL-21016-02 0014 Sickle cell anemia and other hemoglobinopathies - Human hemoglobin mutants with abnormal oxygen binding
P01HL-21016-02 0017 Sickle cell anemia and other hemoglobinopathies - The hereditary clinic core
** R01HL-21096-02 Sickle cell crisis--Role of the erythrocyte membrane (human)
** R23HL-21129-02 The antisickling effects of imidoesters
** R01HL-21469-01 Active transport and effect of CA00 in sickle cell (human)
** R01HL-21757-01 Elastin structure--0NA breathing--Hemoglobin S gelation
P01HL-22163-01 0001 Surface thrombogenesis--Mechanisms and prevention - Initial blood protein and platelet interactions with biomaterials (baboons)
R01HL-22325-01 Thermodynamics in respiratory protein binding (human, trout)
** R01HL-22654-01 Molecular structure of sickle cell fibers (human)
** R01HL-22780-01 Factors modifying the reaction properties of HgS (human)
** R01HL-23267-01 Rheology and kinetics of hemoglobin S gelation (human)
** R01HL-23736-04 Sickle cell anemia and hemoglobin synthesis (monkeys)

HEMOPROTEINS, HEMOGLOBINOPATHIES

SEE ALSO HEMOPROTEINS, HEMOGLOBIN C
SEE ALSO HEMOPROTEINS, HEMOGLOBIN 0
SEE ALSO HEMOPROTEINS, HEMOGLOBIN H
SEE ALSO METABOLIC OISOR0ERS (INBORN), PORPHYRIA
** R01HL-02558-22 Structure-function relationships in the heme proteins (human, cattle)
** R01HL-02799-22 Abnormal hemoglobins (human)
** R01HL-05168-19 Inhomogencity of hemoglobin types (human)
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
** R01HL-14131-18 Abnormal hemoglobin syndromes (human)
P60HL-15157-07 0001 Comprehensive center for sickle cell disease - Screening program (human)
** P60HL-15158-07 0016 Comprehensive sickle cell center - Biochemical studies in sickle cell anemia (human)
P60HL-15158-07 0020 Comprehensive sickle cell center - Immunochemical investigation of hemoglobin variants (human)
P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies--Oimensions, effectiveness
** P60HL-15160-07 0013 Center for sickle cell disease - Immunochemical diagnosis of hemoglobinopathies (infants)
P60HL-15162-07 0007 Comprehensive sickle cell center - Core program--Oemographic studies (human)
** P60HL-15168-07 0001 Comprehensive sickle cell disease center - Screening program (human)
P60HL-15170-05 0006 Support for center for sickle cell anemia - Pediatric services--Comprehensive clinic
P60HL-15170-05 0007 Support for center for sickle cell anemia - Pediatric services--Screening program
** P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)
R01HL-16022-05 Oeterminants of the ventilatory response to hypoxia (goats, cats)
R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
M P01HL-16833-04 Hemoglobin and red cell system in hemoglobinopathies
** P01HL-16833-04 0001 Hemoglobin and red cell system in hemoglobinopathies - Motility, association and ligand binding in hemoglobin--Hydrogen exchange
P01HL-16833-04 0003 Hemoglobin and red cell system in hemoglobinopathies - Oxygen binding curves and equilibria (human)
** P01HL-16833-04 0004 Hemoglobin and red cell system in hemoglobinopathies - Purification and fractionation of hemoglobin A and S (human)
** P01HL-16833-04 0006 Hemoglobin and red cell system in hemoglobinopathies - Role of water in function of hemoglobin and myoglobin (human)
** P01HL-16833-04 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)
** P01HL-16833-04 0015 Hemoglobin and red cell system in hemoglobinopathies - Stereochemistry of hemoglobins from magnetic circular dichroism (human)
** R01HL-17571-03 Study of membrane permeability by NMR relaxation (human)
R01HL-17808-03 Effect of altered oxygen affinity on oxygen transport (human, rats)
M P01HL-18208-04 Center for the study of blood cell rheology
R01HL-18226-04 Mechanism of oxygen supply to tissue (human, animals)
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)
** R01HL-19646-03 An immunologic study of hemoglobin variation in man
** R01HL-20142-02 Functional studies of abnormal human hemoglobins
R01HL-20751-01 High speed liquid chromatography of hemoglobins (human)
** R01HL-20913-02 Cell culture studies of hemoglobinopathies (human)
R01HL-20922-02 Control of human fetal hemoglobin synthesis
M P01HL-21016-02 Sickle cell anemia and other hemoglobinopathies
** P01HL-21016-02 0001 Sickle cell anemia and other hemoglobinopathies - Supramolecular models of Hb S--Mutational and EM approach
** P01HL-21016-02 0002 Sickle cell anemia and other hemoglobinopathies - Molecular events proceeding gelation of Hb S
** P01HL-21016-02 0003 Sickle cell anemia and other hemoglobinopathies - Role of non-S hemoglobin in gelation and sickling
** P01HL-21016-02 0004 Sickle cell anemia and other hemoglobinopathies - Kinetics of sickling
** P01HL-21016-02 0005 Sickle cell anemia and other hemoglobinopathies - Ligand kinetics in normal and Hb S containing erythrocytes (human)
** P01HL-21016-02 0006 Sickle cell anemia and other hemoglobinopathies - Analysis of the oxygen dissociation curve of Hb S-containing red cells
** P01HL-21016-02 0007 Sickle cell anemia and other hemoglobinopathies - Cellular determinants of red cell sickling
** P01HL-21016-02 0008 Sickle cell anemia and other hemoglobinopathies - The clinical variations of sickle cell anemia
** P01HL-21016-02 0009 Sickle cell anemia and other hemoglobinopathies - Nitrogen mustards and their potential use as antisickling agent
** P01HL-21016-02 0012 Sickle cell anemia and other hemoglobinopathies - Stimulation of Hb F synthesis in a permanent cell line
** P01HL-21016-02 0013 Sickle cell anemia and other hemoglobinopathies - Microcirculatory response to sickle cell treated with anti-sickling agents (rats)
P01HL-21016-02 0014 Sickle cell anemia and other hemoglobinopathies - Human hemoglobin mutants with abnormal oxygen binding
** P01HL-21016-02 0015 Sickle cell anemia and other hemoglobinopathies - EPR study of NO derivatives of Hb Beth Israel (human)
** P01HL-21016-02 0016 Sickle cell anemia and other hemoglobinopathies - The treatment of sickle cell retinopathy (human)
** P01HL-21016-02 0017 Sickle cell anemia and other hemoglobinopathies - The hereditary clinic core
** P01HL-21016-02 0018 Sickle cell anemia and other hemoglobinopathies - Scanning and transmission electron microscopy
** P01HL-21016-02 0019 Sickle cell anemia and other hemoglobinopathies - Administration core
** R01HL-22654-01 Molecular structure of sickle cell fibers (human)
R01HL-23267-01 Rheology and kinetics of hemoglobin S gelation (human)
** P60HL-23282-01 0001 Comprehensive hospital/community sickle cell center - Fetoscopy for intrauterine diagnosis of hemoglobinopathy (human, monkeys)

HEMOPROTEINS, HEMOGLOBINOPATHIES, SICKLE CELL ANEMIA

SEE ALSO HEMOPROTEINS, HEMOGLOBIN S
** N01HB-22919-08 Hemoglobin carbamylation in the treatment of sickle cell anemia (human, dogs)
** N01HB-22922-08 Oevelop effective therapy for sickle cell disease (human, dogs)
N01HB-62962-02 Red cell distributions in cyanate-treated blood (human, sheep)
** N01HB-72982-03 Statistical coordinating center for sickle cell disease
** R01HL-02799-22 Abnormal hemoglobins (human)
R01HL-05168-19 Inhomogencity of hemoglobin types (human)
R01HL-06242-18 Kinetic studies of blood (human)
R01HL-07449-17 Formation and survival of red blood cells (human)
** R01HL-10383-12 Physical-chemical studies of hemoglobins and erythrocyte (human)
R01HL-12524-10 Reaction of hemoglobin with ligands and antibodies (human, carp)
** R01HL-14131-18 Abnormal hemoglobin syndromes (human)
R01HL-14785-07 Ultrasonic scattering for tissue characterization (dogs, cattle, human)
R01HL-14820-07 Factors affecting physiology of biological membranes (human)
M P60HL-15157-07 Comprehensive center for sickle cell disease
** P60HL-15157-07 0001 Comprehensive center for sickle cell disease - Screening program (human)
** P60HL-15157-07 0002 Comprehensive center for sickle cell disease - Central data bank and research file
** P60HL-15157-07 0003 Comprehensive center for sickle cell disease - Public education
** P60HL-15157-07 0009 Comprehensive center for sickle cell disease - Red cell membrane alterations during sickling (human)
** P60HL-15157-07 0011 Comprehensive center for sickle cell disease - Oevelopment of specific anti-sickling compound (human)
** P60HL-15157-07 0012 Comprehensive center for sickle cell disease - Sickling and intracellular pH (human)
** P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
M P60HL-15158-07 Comprehensive sickle cell center
** P60HL-15158-07 0004 Comprehensive sickle cell center - Expression of abnormal hemoglobin synthesis in the neonate and young child
** P60HL-15158-07 0008 Comprehensive sickle cell center - Core laboratory of the center
** P60HL-15158-07 0009 Comprehensive sickle cell center - Counseling and social services
** P60HL-15158-07 0010 Comprehensive sickle cell center - Tutorial service for sickle cell anemia patients
** P60HL-15158-07 0011 Comprehensive sickle cell center - Clinical services--Adult patients
** P60HL-15158-07 0012 Comprehensive sickle cell center - Clinical services--Pediatric patients
** P60HL-15158-07 0014 Comprehensive sickle cell center - Mechanism of sickling in human and deer hemoglobins
P60HL-15158-07 0016 Comprehensive sickle cell center - Biochemical studies in sickle cell anemia (human)
** P60HL-15158-07 0020 Comprehensive sickle cell center - Immunochemical investigation of hemoglobin variants (human)
** P60HL-15158-07 0025 Comprehensive sickle cell center - Cardiovascular evaluation of children with sickle cell disease (human)
P60HL-15158-07 0027 Comprehensive sickle cell center - Community advisory board--Nancy Cobb house
** P60HL-15158-07 0028 Comprehensive sickle cell center - Education
M P60HL-15160-07 Center for sickle cell disease
** P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies--Oimensions, effectiveness
** P60HL-15160-07 0008 Center for sickle cell disease - Isocyanate derivatives and hemoglobin S association (human, rat)
** P60HL-15160-07 0009 Center for sickle cell disease - Natural history of sickle cell disease (human)
** P60HL-15160-07 0011 Center for sickle cell disease - Study of human sickle cells in an animal model (rats)
** P60HL-15160-07 0012 Center for sickle cell disease - Core laboratories
** P60HL-15160-07 0013 Center for sickle cell disease - Immunochemical diagnosis of hemoglobinopathies (infants)
** P60HL-15160-07 0014 Center for sickle cell disease - Replacement therapy of opsonin deficiency in sickle cell anemia (children)
** P60HL-15160-07 0015 Center for sickle cell disease - Lung function abnormalities in sickle cell hemoglobinopathies (human)
** P60HL-15160-07 0016 Center for sickle cell disease - Kinin and plasmin system in sickle cell disease (human)
** P60HL-15160-07 0017 Center for sickle cell disease - Oemonstration--Education, screening, counseling, patient care
M P60HL-15162-07 Comprehensive sickle cell center
** P60HL-15162-07 0001 Comprehensive sickle cell center - Core program--Patient care
** P60HL-15162-07 0007 Comprehensive sickle cell center - Core program--Oemographic studies (human)
** P60HL-15162-07 0010 Comprehensive sickle cell center - Core program--Community outreach and education program
** P60HL-15162-07 0011 Comprehensive sickle cell center - Core program--Genetic counseling and diagnostic screening
** P60HL-15162-07 0017 Comprehensive sickle cell center - Hemoglobin, erythrocytes and sickle cell anemia (human, rabbit)
** P60HL-15162-07 0018 Comprehensive sickle cell center - Biochemical and genetic studies of sickle cell anemia (human)
** P60HL-15162-07 0019 Comprehensive sickle cell center - RBC-Blood rheology in sickle cell anemia and related disorders (human, animal)
** P60HL-15162-07 0020 Comprehensive sickle cell center - Biophysical studies of normal and sickle red cells (human)
** P60HL-15162-07 0021 Comprehensive sickle cell center - Pneumococcal vaccine in sickle cell disease (children)
M P60HL-15168-07 Comprehensive sickle cell disease center

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P60HL-15168-07 0001 Comprehensive sickle cell disease center - Screening program (human)
** P60HL-15168-07 0002 Comprehensive sickle cell disease center - Patient care
** P60HL-15168-07 0003 Comprehensive sickle cell disease center - Sickle cell education and training program
** P60HL-15168-07 0005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)
** P60HL-15168-07 0006 Comprehensive sickle cell disease center - Core center
** P60HL-15168-07 0009 Comprehensive sickle cell disease center - Spin-label study of sickling (human)
** P60HL-15168-07 0010 Comprehensive sickle cell disease center - Sickle cell center project (children)
M P60HL-15169-05 Support for center for sickle cell disease
** P60HL-15169-05 0009 Support for center for sickle cell disease - Infections in sickle cell anemia (human)
** P60HL-15169-05 0012 Support for center for sickle cell disease - Evaluation of the incidence of cholelithiasis in sickle cell disease (human)
** P60HL-15169-05 0014 Support for center for sickle cell disease - Orthopaedic aspects of sickle cell disease (human)
** P60HL-15169-05 0015 Support for center for sickle cell disease - Pathophysiology of acute pulmonary infiltrates in sickle cell disease (human)
** P60HL-15169-05 0017 Support for center for sickle cell disease - Study of the natural history of sickle cell disease in the home
** P60HL-15169-05 0018 Support for center for sickle cell disease - Studies on sickle cell disease (human, rats, dogs)
** P60HL-15169-05 0019 Support for center for sickle cell disease - Central screening and reference laboratory
** P60HL-15169-05 0021 Support for center for sickle cell disease - Multidisciplinary module system for education, screening and counseling
M P60HL-15170-05 Support for center for sickle cell anemia
** P60HL-15170-05 0001 Support for center for sickle cell anemia - Adult clinical services
** P60HL-15170-05 0002 Support for center for sickle cell anemia - Adult services--Testing programs
** P60HL-15170-05 0003 Support for center for sickle cell anemia - Adult services--Educational programs
** P60HL-15170-05 0006 Support for center for sickle cell anemia - Pediatric services--Comprehensive clinic
** P60HL-15170-05 0007 Support for center for sickle cell anemia - Pediatric services--Screening program
** P60HL-15170-05 0008 Support for center for sickle cell anemia - Pediatric services--Education program
P60HL-15170-05 0017 Support for center for sickle cell anemia - Control of hemoglobulin synthesis (human)
** P60HL-15170-05 0019 Support for center for sickle cell anemia - Renal handling of uric acid in sickle cell anemia (human)
** P60HL-15170-05 0023 Support for center for sickle cell anemia - Comprehensive sickle cell clinic
** P60HL-15170-05 0030 Support for center for sickle cell anemia - Adult services--Counseling program
R01HL-15293-07 Sickle cell hemoglobin--Interactions and aggregation (human)
R01HL-15722-06 Hemorrheology studies related to in vivo blood flow (human)
M P60HL-15996-06 Cincinnati comprehensive sickle cell center
** P60HL-15996-06 0001 Cincinnati comprehensive sickle cell center - Coagulation mechanisms in sickle cell disease (human)
** P60HL-15996-06 0003 Cincinnati comprehensive sickle cell center - Prophylactic penicillin in treatment of sickle cell anemia (human)
** P60HL-15996-06 0004 Cincinnati comprehensive sickle cell center - School adjustment of sickle cell patients
P60HL-15996-06 0005 Cincinnati comprehensive sickle cell center - Factors precipitating crises (human)
** P60HL-15996-06 0006 Cincinnati comprehensive sickle cell center - Education
** P60HL-15996-06 0007 Cincinnati comprehensive sickle cell center - Screening and counseling
** P60HL-15996-06 0008 Cincinnati comprehensive sickle cell center - Patient care (children, adults)
** P60HL-15996-06 0009 Cincinnati comprehensive sickle cell center - Insurance coverage of persons with sickle cell trait and disease
** P60HL-15996-06 0010 Cincinnati comprehensive sickle cell center - Whole blood viscosity in sickle cell anemia (human)
M P60HL-15999-05 Miami comprehensive sickle cell center
** P60HL-15999-05 0004 Miami comprehensive sickle cell center - Education, screening and counseling
** P60HL-15999-05 0005 Miami comprehensive sickle cell center - Sickle cell clinic
** P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
** P60HL-15999-05 0014 Miami comprehensive sickle cell center - Biochemical and morphological parameters of sickle cells (human)
** P60HL-15999-05 0019 Miami comprehensive sickle cell center - Fetal-adult hemoglobin switch (mouse, monkey)
** P60HL-15999-05 0020 Miami comprehensive sickle cell center - Deficiency in complement dependent humoral immunity--Sickle cell disease (human)
** P60HL-15999-05 0021 Miami comprehensive sickle cell center - Diphosphonates--Erythrocyte calcium loading, maturation (human, chick embryo)
M P60HL-16005-05 Comprehensive sickle cell center
** P60HL-16005-05 0001 Comprehensive sickle cell center - Demonstration--Community service component
** P60HL-16005-05 0013 Comprehensive sickle cell center - Study of regulation of erythropoiesis in vitro (human, rat, hamster, rabbit)
P60HL-16005-05 0015 Comprehensive sickle cell center - Molecular basis for the sickling phenomenon
** P60HL-16005-05 0018 Comprehensive sickle cell center - Comprehensive study--Natural history of sickle cell disease in adults (human)
** P60HL-16005-05 0019 Comprehensive sickle cell center - Handling of uric acid in sickle cell anemia (human)
** P60HL-16005-05 0020 Comprehensive sickle cell center - Studies of the immunologic defect in sickle cell anemia (human)
** P60HL-16005-05 0021 Comprehensive sickle cell center - Management of pregnancy in sickle cell anemia (human)
** P60HL-16005-05 0022 Comprehensive sickle cell center - Regulation of erythropoiesis in patients with sickle cell anemia
** P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)
M P60HL-16008-06 Wayne State University comprehensive sickle cell center
** P60HL-16008-06 0001 Wayne State University comprehensive sickle cell center - Patient care system (children, adults)
** P60HL-16008-06 0009 Wayne State University comprehensive sickle cell center - Natural history of sickle cell anemia (human)
** P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling
** P60HL-16008-06 0012 Wayne State University comprehensive sickle cell center - Central data management--Computer system
** P60HL-16008-06 0014 Wayne State University comprehensive sickle cell center - Zinc and red blood cell metabolism in sickle cell anemia (rats, human)
** P60HL-16008-06 0015 Wayne State University comprehensive sickle cell center - Trace elements in sickle cell disease (human)
** P60HL-16008-06 0016 Wayne State University comprehensive sickle cell center - Red blood cell glycolysis in sickle cell patients
** P60HL-16008-06 0017 Wayne State University comprehensive sickle cell center - Oxygen transport kinetics of pre- and post-sickling cells (human)
** P60HL-16008-06 0018 Wayne State University comprehensive sickle cell center - Hemoglobin S and RBC membranes--Pathogenesis of irreversibly sickled cells
** P60HL-16008-06 0019 Wayne State University comprehensive sickle cell center - Cell mediated immunity in sickle cell anemia (human)
** P60HL-16008-06 0020 Wayne State University comprehensive sickle cell center - Genetic and physiological studies of sickle cell anemia (human)
** R01HL-16375-04 Investigation of hemoglobin S properties (human)
R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
** R01HL-16580-04 Mathematical models for studying sickle-cell disease
** R01HL-16647-05 Studies on the control of sickle cell crisis (human)
R01HL-16654-06 Regulation in developing erythroid cells (human)
** P01HL-16833-04 0002 Hemoglobin and red cell system in hemoglobinopathies - Polymerization and gel formation in solutions of hemoglobin A and S (human)
** P01HL-16833-04 0008 Hemoglobin and red cell system in hemoglobinopathies - Membrane associated phenomena in SS disease
** P01HL-16833-04 0011 Hemoglobin and red cell system in hemoglobinopathies - Relationship between hemoglobin and RBC membrane in sickling cells (human, rats)
** P01HL-16833-04 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)
** P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
** P01HL-16833-04 0017 Hemoglobin and red cell system in hemoglobinopathies - Sulthydryl group blockade antisickling effect (human)
P01HL-16851-04 0005 Human red cell membrane in health and disease - Relation of hemoglobin species to membrane properties (human)
P01HL-16851-04 0010 Human red cell membrane in health and disease - Core facility--Hematology clinic
R01HL-17552-03 Sickling inhibition by chemical modification of hemoglobin (human)
R01HL-18048-04 Dynamics of artificial and biological membranes (human)
P01HL-18208-04 0005 Center for the study of blood cell rheology RBC deformability and capillary flow interrelations (human, mice)
P01HL-18208-04 0006 Center for the study of blood cell rheology Analysis of flow in arterioles and capillaries (human)
R01HL-18551-03 Spectrin, actin, lipid and red cell membrane structure
** R01HL-18725-03 Light-scattering studies of the sickling process (human)
** R01HL-18737-03 Human erythrocyte membrane structure
** R01HL-19324-02 Mechanisms of the inhibition of sickling by OBA (human)
R01HL-19646-03 An immunologic study of hemoglobin variation in man
P01HL-19737-02 0005 Cellular and molecular aspects of respiratory physiology - Interaction of respiratory exchanges and blood gas parameters (human, animals)
** R01HL-19973-01 Non-invasive sickled cell monitor development (human)
R01HL-20074-02 Structure and function of amidinated human hemoglobin
R01HL-20241-02 Shear and area moduli for abnormal red cell membranes (human)
** R01HL-20314-02 Host defense against S pneumoniae in sickle cell disease (human)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
** R01HL-20750-01 Studies in sickle cell disease (human)
R01HL-20899-02 Cellular mechanisms of hemoglobin F regulation (human)
R01HL-20905-02 Synthesis of fetal hemoglobin in erythroid cells (sheep, human)
R01HL-20912-02 Control on non-alpha chain synthesis in thassemic mice
** R01HL-20913-02 Cell culture studies of hemoglobinopathies (human)
R01HL-20920-01 Control of hemoglobin synthesis (baboon)
R01HL-20925-01 The acetylation of fetal hemoglobin (human)
R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)
M P60HL-20985-01 Northern California sickle cell center
** P60HL-20985-01 0001 Northern California sickle cell center - Sickle cell anemia quality assurance program
** P60HL-20985-01 0002 Northern California sickle cell center - Immunization with polyvalent pneumococcal polysaccharide vaccine (human)
** P60HL-20985-01 0003 Northern California sickle cell center - Kinetics of sickling and clinical manifestations in sickling disorders (human)
** P60HL-20985-01 0004 Northern California sickle cell center - Characterization of irreversibly sickled cells (human)
** P60HL-20985-01 0005 Northern California sickle cell center - Molecular mechanism of alpha thalassemia--Relation to sickle cell anemia (human)
** P60HL-20985-01 0007 Northern California sickle cell center - Immunohematologic abnormalities in sickle cell anemia (human)
** P60HL-20985-01 0008 Northern California sickle cell center - Demonstration community program--Patient ambudsman
** P60HL-20985-01 0009 Northern California sickle cell center - Patient services (children, adults)
** P60HL-20985-01 0010 Northern California sickle cell center - Prenatal diagnosis of sickle cell anemia
** P60HL-20985-01 0011 Northern California sickle cell center - SNMA community education program
M P01HL-21016-02 Sickle cell anemia and other hemoglobinopathies
** P01HL-21016-02 0001 Sickle cell anemia and other hemoglobinopathies - Supramolecular models of Hb S--Mutational and EM approach
** P01HL-21016-02 0002 Sickle cell anemia and other hemoglobinopathies - Molecular events proceeding gelation of Hb S
** P01HL-21016-02 0003 Sickle cell anemia and other hemoglobinopathies - Role of non-S hemoglobin in gelation and sickling
** P01HL-21016-02 0004 Sickle cell anemia and other hemoglobinopathies - Kinetics of sickling
** P01HL-21016-02 0005 Sickle cell anemia and other hemoglobinopathies - Ligand kinetics in normal and Hb S containing erythrocytes (human)
** P01HL-21016-02 0006 Sickle cell anemia and other hemoglobinopathies - Analysis of the oxygen dissociation curve of Hb S-containing red cells
** P01HL-21016-02 0007 Sickle cell anemia and other hemoglobinopathies - Cellular determinants of red cell sickling
** P01HL-21016-02 0008 Sickle cell anemia and other hemoglobinopathies - The clinical variations of sickle cell anemia
** P01HL-21016-02 0009 Sickle cell anemia and other hemoglobinopathies - Nitrogen mustards and their potential use as antisickling agent
** P01HL-21016-02 0010 Sickle cell anemia and other hemoglobinopathies - Alkylureas as potential anti-sickling agents

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

** P01HL-21016-02 0011 Sickle cell anemia and other hemoglobinopathies - Metabolic effects of anti-sickling agents (hamsters)
** P01HL-21016-02 0013 Sickle cell anemia and other hemoglobinopathies - Microcirculatory response to sickle cell treated with anti-sickling agents (rats)
** P01HL-21016-02 0014 Sickle cell anemia and other hemoglobinopathies - Human hemoglobin mutants with abnormal oxygen binding
** P01HL-21016-02 0015 Sickle cell anemia and other hemoglobinopathies - EPR study of NO derivatives of Hb Beth Israel (human)
** P01HL-21016-02 0016 Sickle cell anemia and other hemoglobinopathies - The treatment of sickle cell retinopathy (human)
** P01HL-21016-02 0017 Sickle cell anemia and other hemoglobinopathies - The hereditary clinic core
** P01HL-21016-02 0018 Sickle cell anemia and other hemoglobinopathies - Scanning and transmission electron microscopy
** P01HL-21016-02 0019 Sickle cell anemia and other hemoglobinopathies - Administration core
R01HL-21096-02 Sickle cell crisis--Role of the erythrocyte membrane (human)
** R23HL-21129-02 The antisickling effects of imidoesters
** R01HL-21469-01 Active transport and effect of CA00 in sickle cell (human)
** R01HL-22780-01 Factors modifying the reaction properties of HgS (human)
R01HL-23200-01 Isolation of CA binding proteins from erythrocytes (human)
M P60HL-23282-01 Comprehensive hospital/community sickle cell center
** P60HL-23282-01 0002 Comprehensive hospital/community sickle cell center - Clinical evaluation of alternate pathaway of compliment activation
** P60HL-23282-01 0003 Comprehensive hospital/community sickle cell center - Treatment of sickle cell ulcers with physical therapy and vitamin E (human)
** P60HL-23282-01 0004 Comprehensive hospital/community sickle cell center - Bacterial, viral and mycoplasmal infections and sickle cell disease complications
** P60HL-23282-01 9001 Comprehensive hospital/community sickle cell center - Core--Institutionalization of education, screening and counseling
** P60HL-23282-01 9002 Comprehensive hospital/community sickle cell center - Core--Model sickle cell service for neighborhood health centers
** R01HL-23736-04 Sickle cell anemia and hemoglobin synthesis (monkeys)

HEMOPROTEINS, HEMOGLOBINOPATHIES, SICKLE CELL CRISIS

** N01HB-72916-02 Crisis and pain symptom prophylaxis by oral zinc therapy (human)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
R01HL-12256-15 Polymerization of sickle-cell hemoglobin (human)
** R01HL-14131-18 Abnormal hemoglobin syndromes (human)
P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
P60HL-15158-07 0011 Comprehensive sickle cell center - Clinical services--Adult patients
P60HL-15160-07 Center for sickle cell disease
P60HL-15160-07 0009 Center for sickle cell disease - Natural history of sickle cell disease (human)
P60HL-15160-07 0011 Center for sickle cell disease - Study of human sickle cells in an animal model (rats)
P60HL-15160-07 0014 Center for sickle cell disease - Replacement therapy of opsonin deficiency in sickle cell anemia (children)
** P60HL-15160-07 0016 Center for sickle cell disease - Kinin and plasmin system in sickle cell disease (human)
P60HL-15160-07 0017 Center for sickle cell disease - Demonstration--Education, screening, counseling, patient care
P60HL-15168-07 0002 Comprehensive sickle cell disease center - Patient care
P60HL-15169-05 0009 Support for center for sickle cell disease - Infections in sickle cell anemia (human)
P60HL-15169-05 0015 Support for center for sickle cell disease - Pathophysiology of acute pulmonary infiltrates in sickle cell disease (human)
** P60HL-15169-05 0017 Support for center for sickle cell disease - Study of the natural history of sickle cell disease in the home
P60HL-15170-05 0006 Support for center for sickle cell anemia - Pediatric services--Comprehensive clinic
** P60HL-15996-06 0001 Cincinnati comprehensive sickle cell center - Coagulation mechanisms in sickle cell disease (human)
P60HL-15996-06 0003 Cincinnati comprehensive sickle cell center - Prophylactic penicillin in treatment of sickle cell anemia (human)
** P60HL-15996-06 0005 Cincinnati comprehensive sickle cell center - Factors precipitating crises (human)
** P60HL-15996-06 0008 Cincinnati comprehensive sickle cell center - Patient care (children, adults)
P60HL-15996-06 0010 Cincinnati comprehensive sickle cell center - Whole blood viscosity in sickle cell anemia (human)
P60HL-16008-06 0009 Wayne State University comprehensive sickle cell center - Natural history of sickle cell anemia (human)
** P60HL-16008-06 0015 Wayne State University comprehensive sickle cell center - Trace elements in sickle cell disease (human)
R01HL-16375-04 Investigation of hemoglobin S properties (human)
R01HL-16647-05 Studies on the control of sickle cell crisis (human)
** P01HL-16833-04 0009 Hemoglobin and red cell system in hemoglobinopathies - Rheological studies of sickled cells (human)
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
** R01HL-20750-01 Studies in sickle cell disease (human)
P60HL-20985-01 0003 Northern California sickle cell center - Kinetics of sickling and clinical manifestations in sickling disorders (human)
P60HL-20985-01 0007 Northern California sickle cell center - Immunohematologic abnormalities in sickle cell anemia (human)
P60HL-20985-01 0008 Northern California sickle cell center - Demonstration community program--Patient ambudsman
P60HL-20985-01 0009 Northern California sickle cell center - Patient services (children, adults)
** R01HL-21096-02 Sickle cell crisis--Role of the erythrocyte membrane (human)
P60HL-23282-01 0004 Comprehensive hospital/community sickle cell center - Bacterial, viral and mycoplasmal infections and sickle cell disease complications

HEMOPROTEINS, HEMOGLOBINOPATHIES, SICKLING INHIBITORS

** N01HB-22922-08 Develop effective therapy for sickle cell disease (human, dogs)
** N01HB-62962-02 Red cell distributions in cyanate-treated blood (human, sheep)
N01HB-72916-02 Crisis and pain symptom prophylaxis by oral zinc therapy (human)
R01HL-02799-22 Abnormal hemoglobins (human)
R01HL-07451-16 Hemoglobin S gelation and hemoglobin allostery (human)
R01HL-10383-12 Physical-chemical studies of hemoglobins and erythrocyte (human)
** R01HL-12256-15 Polymerization of sickle-cell hemoglobin (human)
** P60HL-15157-07 0011 Comprehensive center for sickle cell disease - Development of specific anti-sickling compound (human)
P60HL-15157-07 0012 Comprehensive center for sickle cell disease - Sickling and intracellular pH (human)
P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
P60HL-15158-07 0014 Comprehensive sickle cell center - Mechanism of sickling in human and deer hemoglobins
** P60HL-15160-07 0008 Center for sickle cell disease - Isocyanate derivatives and hemoglobin S association (human, rat)
P60HL-15160-07 0011 Center for sickle cell disease - Study of human sickle cells in an animal model (rats)
P60HL-15162-07 0020 Comprehensive sickle cell center - Biophysical studies of normal and sickle red cells (human)
P60HL-15168-07 0009 Comprehensive sickle cell disease center - Spin-label study of sickling (human)
P60HL-15168-07 0010 Comprehensive sickle cell disease center - Sickle cell center project (children)
** P60HL-15169-05 0018 Support for center for sickle cell disease - Studies on sickle cell disease (human, rats, dogs)
** R01HL-15293-07 Sickle cell hemoglobin--Interactions and aggregation (human)
M P60HL-15999-05 Miami comprehensive sickle cell center
** P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
P60HL-15999-05 0020 Miami comprehensive sickle cell center - Deficiency in complement-dependent humoral immunity--Sickle cell disease (human)
P60HL-15999-05 0021 Miami comprehensive sickle cell center - Diphosphonates--Erythrocyte calcium loading, maturation (human, chick embryo)
P60HL-16005-05 0015 Comprehensive sickle cell center - Molecular basis for the sickling phenomenon
** P60HL-16008-06 0014 Wayne State University comprehensive sickle cell center - Zinc and red blood cell metabolism in sickle cell anemia (rats, human)
P60HL-16008-06 0015 Wayne State University comprehensive sickle cell center - Trace elements in sickle cell disease (human)
P60HL-16008-06 0017 Wayne State University comprehensive sickle cell center - Oxygen transport kinetics of pre- and post-sickling cells (human)
R01HL-16375-04 Investigation of hemoglobin S properties (human)
** R01HL-16654-06 Regulation in developing erythroid cells (human)
M P01HL-16833-04 Hemoglobin and red cell system in hemoglobinopathies
P01HL-16833-04 0001 Hemoglobin and red cell system in hemoglobinopathies - Motility, association and ligand binding in hemoglobin--Hydrogen exchange
P01HL-16833-04 0003 Hemoglobin and red cell system in hemoglobinopathies - Oxygen binding curves and equilibria (human)
P01HL-16833-04 0009 Hemoglobin and red cell system in hemoglobinopathies - Rheological studies of sickled cells (human)
P01HL-16833-04 0011 Hemoglobin and red cell system in hemoglobinopathies - Relationship between hemoglobin and RBC membrane in sickling cells (human, rats)
P01HL-16833-04 0015 Hemoglobin and red cell system in hemoglobinopathies - Stereochemistry of hemoglobins from magnetic circular dichroism (human)
** P01HL-16833-04 0017 Hemoglobin and red cell system in hemoglobinopathies - Sulfhydryl group blockade antisickling effect (human)
** R01HL-17552-03 Sickling inhibition by chemical modification of hemoglobin (human)
R01HL-18725-03 Light-scattering studies of the sickling process (human)
** R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
** R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)
** R01HL-19324-02 Mechanisms of the inhibition of sickling by DBA (human)
P60HL-20985-01 0003 Northern California sickle cell center - Kinetics of sickling and clinical manifestations in sickling disorders (human)
P01HL-21016-02 0001 Sickle cell anemia and other hemoglobinopathies - Supramolecular models of Hb S--Mutational and EM approach
** P01HL-21016-02 0004 Sickle cell anemia and other hemoglobinopathies - Kinetics of sickling
P01HL-21016-02 0005 Sickle cell anemia and other hemoglobinopathies - Ligand kinetics in normal and Hb S containing erythrocytes (human)
** P01HL-21016-02 0008 Sickle cell anemia and other hemoglobinopathies - The clinical variations of sickle cell anemia
** P01HL-21016-02 0009 Sickle cell anemia and other hemoglobinopathies - Nitrogen mustards and their potential use as antisickling agent
** P01HL-21016-02 0010 Sickle cell anemia and other hemoglobinopathies - Alkylureas as potential anti-sickling agents
** P01HL-21016-02 0011 Sickle cell anemia and other hemoglobinopathies - Metabolic effects of anti-sickling agents (hamsters)
** P01HL-21016-02 0013 Sickle cell anemia and other hemoglobinopathies - Microcirculatory response to sickle cell treated with anti-sickling agents (rats)
** R23HL-21129-02 The antisickling effects of imidoesters
R01HL-21757-01 Elastin structure--DNA breathing--Hemoglobin S gelation
R01HL-22654-01 Molecular structure of sickle cell fibers (human)
** R01HL-22780-01 Factors modifying the reaction properties of HgS (human)

HEMOPROTEINS, HEMOGLOBINOPATHIES, THALASSEMIA

SEE ALSO HEMOPROTEINS, HEMOGLOBIN A2
SEE ALSO HEMOPROTEINS, HEMOGLOBIN C
SEE ALSO HEMOPROTEINS, HEMOGLOBIN H
R01HL-02799-22 Abnormal hemoglobins (human)
R01HL-05168-19 Inhomogencity of hemoglobin types (human)
R01HL-06242-18 Kinetic studies of blood (human)
R01HL-07047-16 Comparative study of cardiac conduction system (human, birds, mammals)
P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)
P60HL-15157-07 0001 Comprehensive center for sickle cell disease - Screening program (human)
P60HL-15158-07 0004 Comprehensive sickle cell center - Expression of abnormal hemoglobin synthesis in the neonate and young child
P60HL-15158-07 0008 Comprehensive sickle cell center - Core laboratory of the center
P60HL-15158-07 0009 Comprehensive sickle cell center - Counseling and social services
P60HL-15158-07 0011 Comprehensive sickle cell center - Clinical services--Adult patients
P60HL-15158-07 0012 Comprehensive sickle cell center - Clinical services--Pediatric patients
P60HL-15158-07 0016 Comprehensive sickle cell center - Biochemical studies in sickle cell anemia (human)
P60HL-15158-07 0020 Comprehensive sickle cell center - Immunochemical investigation of hemoglobin variants (human)
P60HL-15158-07 0025 Comprehensive sickle cell center - Cardiovascular evaluation of children with sickle cell disease (human)
P60HL-15160-07 0009 Center for sickle cell disease - Natural history of sickle cell disease (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P60HL-15160-07 0011 Cantar for sickle cell diseasa - Study of human sickla calls in an animal model (rats)
P60HL-15160-07 0012 Cantar for sickle call diseasa Cora laboratorias
P60HL-15160-07 0013 Canter for sickle cell diseasa Immunochamical diagnosis of hamoglobinopathies (infants)
P60HL-15162-07 0011 Comprahensive sickle cell center - Cora program--Genetic counsaling and diagnostic scraening
P60HL-15162-07 0018 Comprahensive sickle call center - Biochamical and genetic studies of sickla call anemia (human)
P60HL-15162-07 0019 Comprehensive sickle cell center - RBC-Blood rhaology in sickle cell anemia and ralated disorders (human, animal)
P60HL-15168-07 0001 Comprehensive sickle call disease cantar - Screaning program (human)
P60HL-15168-07 0005 Comprehensive sickle cell disease canter - Ophthalmology (human, rabbits, monkeys)
** P60HL-15168-07 0010 Comprehensive sickle cell disease center - Sickla call center project (children)
P60HL-15169-05 0017 Support for center for sickle cell disease - Study of the natural history of sickle cell disease in the home
** P60HL-15169-05 0019 Support for center for sickle cell disease - Central screening and reference laboratory
P60HL-15170-05 0006 Support for center for sickle cell anemia - Pediatric services--Comprehensive clinic
P60HL-16005-05 0018 Comprehensive sickle cell center - Comprehensive study--Natural history of sickle cell disease in adults (human)
P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)
P01HL-16851-04 0005 Human red cell membrane in health and disease - Relation of hemoglobin species to membrane properties (human)
** R01HL-17465-04 Beta-thalassemia screening and genetic counseling
R01HL-18163-04 Red cell membrane effects due to oxidizing agents
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
R01HL-19646-03 An immunologic study of hemoglobin variation in man
** R01HL-19898-03 Desferrioxamine therapy in thalassemia (dogs, rats, children)
** R01HL-19946-03 Reduction of iron overload in thalassemia (children, rabbits, dogs, monkeys)
** R01HL-19961-03 Management of hemosiderosis in thalassemia (children, adults)
** R01HL-20000-03 Iron overload in homozygous beta thalassemia (human)
** R01HL-20016-03 Chelator development for thalassemia (human, mice, rats, dogs, monkeys)
R01HL-20141-02 Biochemical approaches to management of iron overload (human, sheep, dogs)
R01HL-20905-02 Synthesis of fetal hemoglobin in erythroid cells (sheep, human)
** R01HL-20912-02 Control on non-alpha chain synthesis in thassemic mice
R01HL-20920-01 Control of hemoglobin synthesis (baboon)
R01HL-20925-01 The acetylation of fetal hemoglobin (human)
R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)
** P60HL-20985-01 0005 Northern California sickle cell center - Molecular mechanism of alpha thalassemia--Relation to sickle cell anemia (human)
P60HL-20985-01 0007 Northern California sickle cell center - Immunohematologic abnormalities in sickle cell anemia (human)
P60HL-20985-01 0010 Northern California sickle cell center - Prenatal diagnosis of sickle cell anemia
P01HL-21016-02 0014 Sickle cell anemia and other hemoglobinopathies - Human hemoglobin mutants with abnormal oxygen binding
** P01HL-21016-02 0016 Sickle cell anemia and other hemoglobinopathies - The treatment of sickle cell retinopathy (human)
** R23HL-21428-02 Expression of human globin in thalassemia (human)
P60HL-23282-01 0002 Comprehensive hospital/community sickle cell center - Clinical evaluation of alternate pathaway of compliment activation
P60HL-23282-01 9001 Comprehensive hospital/community sickle cell center - Core--Institutionalization of education, screening and counseling

HEMOPROTEINS, HEMOGLOBINURIA, PAROXYSMAL NOCTURNAL

** R01HL-18012-04 Cellular defects in nocturnal hemoglobinuria (human)

HEMOPROTEINS, METHEMOGLOBINEMIA

** R01HL-13585-05 Heterogeneity of NADH methemoglobin reductase (human)
** R01HL-14127-16 Methemoglobinemia and antihypertensive drugs (cats, mice, rats)

HEMOPROTEINS, MYOGLOBIN

SEE ALSO HEMOPROTEINS, MYOGLOBINOPATHIES
SEE ALSO HEMOPROTEINS, MYOGLOBINURIA

R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
** R01HL-05556-19 Proteins, lipoproteins--Structura and reactivity (chicken, human, diving mammals)
R01HL-12526-09 Raman spactra of heme protains and ralated moleculas
R01HL-13399-16 Hema protein structure and function (human, horse, plants, bacteria)
R01HL-13531-06 Coboglobins--Cobalt substitutad myo- and hemoglobins
R01HL-13581-11 Reactions of oxygen with heme proteins
R01HL-13651-07 X-ray photoelectron spectroscopy of heme compounds
R01HL-14508-10 Structure and function of respiratory hemoproteins
** R01HL-14680-07 Specific enrichment of myoglobins for carbon 13 NMR (catacea)
** P01HL-15194-07 0025 Pathophysiology of cardiopulmonary dysfunction - Myoglobinemia as an index of myocardial ischemia and infarction
** R01HL-15284-06 Hemoglobin and myoglobin kinetic studies (human, animals)
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
** P01HL-16833-04 0006 Hemoglobin and red cell system in hemoglobinopathies - Role of water in function of hemoglobin and myoglobin (human)
R01HL-16860-05 Mossbauer studies of respiratory hemoproteins
P50HL-17669-04 0001 Ischemic heart disease center (SCOR) - Radioimmunoassays for CPK isoenzyme and myoglobin (human, dog)
P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardiaf ischemia (human)
** P01HL-17813-04 0007 Lung disease and the oxygenation of blood and tissue - Studies on the function of myoglobin (dogs)
R01HL-18226-04 Mechanism of oxygen supply to tissue (human, animals)
P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
P01HL-18708-03 0009 Oxygen, energy and contractility in cardiac tissue - Regulation of oxygen utilization of cardiac tissue (rats, rabbits)
** R01HL-19299-03 Myoglobin and oxygen supply to heart and muscle cells (rats, pigeons)
** R01HL-19488-03 Picosecond laser studies of heme-proteins
P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
R01HL-21461-01 Heme group protein interactions in hemoproteins
R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin
R01HL-22252-01 Synthesis of labeled hemes for protein NMR studies
R01HL-22682-01 Structure and function of high density lipoprotein (human, rat)

HEMOPROTEINS, MYOGLOBINOPATHIES

** R01HL-22821-01 A routine screening analysis for myoglobinemia

HEMOPROTEINS, MYOGLOBINURIA

** P01HL-15194-07 0025 Pathophysiology of cardiopulmonary dysfunction - Myoglobinemia as an index of myocardial ischemia and infarction

HEMOPROTEINS BIOSYNTHESIS

R01HL-02558-22 Structure-function relationships in the heme proteins (human, cattle)
R01HL-05168-19 Inhomogencity of hemoglobin types (human)
R01HL-05791-18 Structure and function in hemoglobins (human)
R01HL-15026-12 Ouantitative genetic control of protein synthesis (human, primates, mammals)
P60HL-15158-07 0016 Comprehensive sickle cell center - Biochemical studies in sickle cell anemia (human)
P60HL-15162-07 0018 Comprehensive sickle cell center - Biochemical and genetic studies of sickle cell anemia (human)
P60HL-15168-07 0010 Comprehensive sickle cell disease center - Sickle cell center project (children)
** P60HL-15170-05 0017 Support for center for sickle cell anemia - Control of hemoglobulin synthesis (human)
** P60HL-15999-05 0019 Miami comprehensive sickle cell center - Fetal-adult hemoglobin switch (mouse, monkey)
P60HL-15999-05 0021 Miami comprehensive sickle cell center - Diphosphonates--Erythrocyte calcium loading, maturation (human, chick embryo)
** P60HL-16005-05 0013 Comprehensive sickle cell center - Study of regulation of erythropoiesis in vitro (human, rat, hamster, rabbit)
R01HL-16375-04 Investigation of hemoglobin S properties (human)
** R01HL-16445-05 Regulation of plasma protein biosynthesis (rats, rabbits)
R01HL-19324-02 Mechanisms of the inhibition of sickling by DBA (human)
** R01HL-20393-03 Postsynthetic modifications of hemoglobin in diabetics (human)
** R01HL-20899-02 Callular mechanisms of hemoglobin F regulation (human)
** R01HL-20905-02 Synthesis of fetal hemoglobin in erythroid calls (sheap, human)
** R01HL-20912-02 Control on non-alpha chain synthesis in thassemic mica
** R01HL-20913-02 Cell culture studies of hemoglobinopathias (human)
** R01HL-20920-01 Control of hemoglobin synthesis (baboon)
** R01HL-20922-02 Control of human fetal hemoglobin synthesis
R01HL-20925-01 The acetytation of fetal hamoglobin (human)
** R01HL-20939-02 Regulation of fetal hemoglobin in humans
R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)
P60HL-20985-01 0006 Northern California sickle cell center - Antisickling properties of imidoestars (human, rats)
** P01HL-21016-02 0012 Sickle cell anemia and other hemoglobinopathies - Stimulation of Hb F synthesis in a permanent cell lina
** R01HL-23736-04 Sickle cell anemia and hemoglobin synthesis (monkeys)
** R01HL-24048-01 Regulation of hemoglobin synthesis in chick embryos

HEMOPROTEINS METABOLISM

SEE ALSO HEMOPROTEINS BIOSYNTHESIS
SEE ALSO IRON METABOLISM

R01HL-02799-22 Abnormal hemoglobins (human)
** R01HL-06950-17 Red cell metabolism (human, vertebrates)
R01HL-12944-09 Enzymatic and biochemical studies on blood cells (human)
R01HL-19933-02 Membrane and red cell dysfunction in hemolytic anemia (human)
R01HL-20939-02 Regulation of fetal hemoglobin in humans
P60HL-20985-01 0006 Northern California sickle cell center - Antisickling properties of imidoesters (human, rats)
** R01HL-22780-01 Factors modifying the reaction properties of HgS (human)

HEMOPROTEINS STRUCTURE

** R01HL-02558-22 Structure-function relationships in the heme proteins (human, cattle)
R01HL-02799-22 Abnormal hemoglobins (human)
R01HL-05168-19 Inhomogencity of hemoglobin types (human)
** R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
** R01HL-05791-18 Structure and function in hemoglobins (human)
** R01HL-07451-16 Hemoglobin S gelation and hemoglobin allostery (human)
R01HL-10383-12 Physical-chemicaf studies of hemoglobins and erythrocyte (human)
R01HL-12256-15 Polymerization of sickle-cell hemoglobin (human)
R01HL-12524-10 Reaction of hemoglobin with ligands and antibodies (human, carp)
** R01HL-12526-09 Raman spectra of heme proteins and related molecules
R01HL-13157-09 Molecular oxygen carriers--Synthesis, structure, bonding
** R01HL-13164-07 Interaction of the alpha and beta chains of human hemoglobin
** R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
** R01HL-13531-06 Coboglobins--Cobalt substituted myo- and hemoglobins
R01HL-13581-11 Reactions of oxygen with heme proteins
** R01HL-13651-07 X-ray photoelectron spectroscopy of heme compounds
** R01HL-14508-10 Structure and function of respiratory hemoproteins
R01HL-15125-07 Molecular pathology of genetic disorders in man
P60HL-15158-07 0008 Comprehensive sickle cell center - Core laboratory of the center
** P60HL-15158-07 0014 Comprehensive sickle cell center - Mechanism of sickling in human and deer hemoglobins
** P60HL-15158-07 0016 Comprehensive sickle cell center - Biochemical studies in sickle cell anemia (human)
** P60HL-15158-07 0020 Comprehensive sickle cell center - Immunochemical investigation of hemoglobin variants (human)
P60HL-15160-07 0008 Center for sickle cell disease - Isocyanate derivatives and hemoglobin S association (human, rat)
P60HL-15160-07 0012 Center for sickle cell disease - Core laboratories
** P60HL-15162-07 0017 Comprehensive sickle cell center - Hemoglobin, erythrocytes and sickle cell anemia (human, rabbit)
P60HL-15162-07 0018 Comprehensive sickle cell center - Biochemical and genetic studies of sickle cell anemia (human)
P60HL-15168-07 0009 Comprehensive sickle cell disease center - Spin-label study of sickling (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-15284-06 Hemoglobin and myoglobin kinetic studies (human, animals)
** R01HL-15293-07 Sickle cell hemoglobin--Interactions and aggregation (human)
R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)
** R01HL-15627-06 X-ray and chemical studies of metalloporphyrins
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
** P60HL-16005-05 0015 Comprehensive sickle cell center - Molecular basis for the sickling phenomenon
P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)
P60HL-16008-06 0017 Wayne State University comprehensive sickle cell center - Oxygen transport kinetics of pre- and post-sickling cells (human)
R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
** R01HL-16601-05 Structure and function of blood proteins (human, cattle)
R01HL-16654-06 Regulation in developing erythroid cells (human)
P01HL-16833-04 0015 Hemoglobin and red cell system in hemoglobinopathies - Stereochemistry of hemoglobins from magnetic circular dichroism (human)
R01HL-16860-05 Mossbauer studies of respiratory hemoproteins
** R01HL-16891-05 The folding of hemoglobin
** R01HL-16927-05 Structure and function of normal and abnormal hemoglobin (human)
R01HL-17494-07 Mechanism of liqand binding to hemoglobin (human)
P50HL-17669-04 0002 Ischemic heart disease center (SCOR) - Myocardial infarction sizing by radioimmunoassay of cardiac myosin (dogs)
R01HL-18309-04 Oxygen transport--Hemoglobins with modified hemes (horse)
** R01HL-18634-03 Quarternary structure of erythro and chlorocruorins (invertebrates)
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)
R01HL-19646-03 An immunologic study of hemoglobin variation in man
** R01HL-20074-02 Structure and function of amidinated human hemoglobin
** R01HL-20142-02 Functional studies of abnormal human hemoglobins
R01HL-20393-03 Postsynthetic modifications of hemoglobin in diabetics (human)
R01HL-20520-03 Protein modification--The key to diabetic sequelae (human, animal)
R01HL-20750-01 Studies in sickle cell disease (human)
R01HL-20905-02 Synthesis of fetal hemoglobin in erythroid cells (sheep, human)
** R01HL-20912-02 Control on non-alpha chain synthesis in thassemic mice
R01HL-20925-01 The acetylation of fetal hemoglobin (human)
** R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)
P60HL-20985-01 0003 Northern California sickle cell center - Kinetics of sickling and clinical manifestations in sickling disorders (human)
P60HL-20985-01 0005 Northern California sickle cell center - Molecular mechanism of alpha thalassemia--Relation to sickle cell anemia (human)
P01HL-21016-02 0001 Sickle cell anemia and other hemoglobinopathies - Supramolecular models of Hb S--Mutational and EM approach
P01HL-21016-02 0002 Sickle cell anemia and other hemoglobinopathies - Molecular events proceeding gelation of Hb S
** R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin
** R01HL-22780-01 Factors modifying the reaction properties of HgS (human)

HEMORHEOLOGY
SEE BLOOD RHEOLOGY

HEMORRHAGE
SEE CARDIOVASCULAR DISORDERS, HEMORRHAGE

HEMORRHAGE, GASTROINTESTINAL
SEE GASTROINTESTINAL CIRCULATORY DISORDERS, HEMORRHAGE, GASTROINTESTINAL

HEMORRHAGIC DISORDERS
SEE BLOOD AND RE DISORDERS, HEMORRHAGIC DISORDERS

HEMORRHAGIC FEVER
SEE VIRUS DISEASES, ARBOVIRUS, DENGUE

HEMORRHAGIC FEVER VIRUSES
SEE VIRUSES, ARBOVIRUSES, HEMORRHAGIC FEVER VIRUSES

HEMORRHAGIC SHOCK
SEE CARDIOVASCULAR DISORDERS, HEMORRAGIC SHOCK

HEMOSIDEROSIS
SEE IRON DISORDERS AND IMBALANCES, HEMOSIDEROSIS

HEMOSTASIS
SEE BLOOD STASIS

HEMOSTATICS
SEE BLOOD COAGULATION, HEMOSTATICS

HEMOTOXINS
SEE BLOOD TOXICOLOGY, HEMOTOXINS

HEMP (INDIAN)
SEE ALKALOIDS, CANNABIS

HEPARAN SULFATE
SEE POLYSACCHARIDES, GLYCOSAMINOGLYCANS, HEPARAN SULFATE

HEPARIN
SEE POLYSACCHARIDES, GLYCOSAMINOGLYCANS, HEPARIN

BETA-HEPARIN
SEE POLYSACCHARIDES, GLYCOSAMINOGLYCANS, DERMATAN SULFATE

HEPARIN CLEARING FACTOR
SEE LIPASES, LIPOPROTEIN LIPASE

HEPARIN CO-FACTOR
SEE BLOOD COAGULATION, HEPARIN CO-FACTOR

HEPARIN MONOSULFATE
SEE POLYSACCHARIDES, GLYCOSAMINOGLYCANS, HEPARAN SULFATE

HEPARINASE
SEE POLYSACCHARIDE C-O LYASES, HEPARINASE

HEPARITIN SULFATE
SEE POLYSACCHARIDES, GLYCOSAMINOGLYCANS, HEPARAN SULFATE

HEPATIC CIRCULATION
SEE LIVER CIRCULATION

HEPATIC COMA
SEE LIVER DISORDERS, HEPATIC COMA-ENCEPHALOPATHY

HEPATIC ENCEPHALOPATHY
SEE LIVER DISORDERS, HEPATIC COMA-ENCEPHALOPATHY

HEPATITIS
SEE LIVER DISORDERS, HEPATITIS

HEPATITIS A
SEE LIVER DISORDERS, HEPATITIS VIRAL HUMAN

HEPATITIS A VIRUS (HAV)
SEE VIRUSES, HEPATITIS A VIRUS (HAV)

HEPATITIS B
SEE LIVER DISORDERS, HEPATITIS SERUM

HEPATITIS B ANTIGEN (HBAG)
SEE IMMUNOLOGY, ANTIGENS VIRAL, HEPATITIS B ANTIGEN (HBAG)

HEPATITIS B VIRUS (HBV)
SEE VIRUSES, HEPATITIS B VIRUS (HBV)

HEPATITIS (HOMOLOGOUS) SERUM
SEE LIVER DISORDERS, HEPATITIS SERUM

HEPATITIS VACCINE, SERUM HEPATITIS
SEE VACCINES, VIRAL, HEPATITIS, SERUM

HEPATITIS VIRAL HUMAN
SEE LIVER DISORDERS, HEPATITIS VIRAL HUMAN

HEPATITIS VIRUSES
SEE VIRUSES, HEPATITIS

HEPATO-CEREBRO-RENAL SYNDROME
SEE METABOLIC DISORDERS INBORN, CEREBRO-HEPATO-RENAL SYNDROME

HEPATOCUPREIN
SEE METALLOPROTEINS, CYTOCUPREINS

HEPATOLENTICULAR DEGENERATION
SEE METABOLIC DISORDERS INBORN, HEPATOLENTICULAR DEGENERATION

HEPATOMA
SEE NEOPLASMS OF BILIARY TRACT, LIVER NEOPLASMS, HEPATOMA

HEPATORENAL SYNDROME
SEE LIVER DISORDERS, HEPATORENAL SYNDROME

HEPATOTOXINS
SEE LIVER DISORDERS, TOXIC LIVER DISORDERS, HEPATOTOXINS

HEREDITARY DISORDERS
SEE GENETIC DISORDERS (SEE ALSO APPROPRIATE CONGENITAL ABNORMALITIES)

HEREDITARY DISORDERS, BLOOD (AND RE SYSTEM)
SEE BLOOD AND RE DISORDERS CONGENITAL (HEREDITARY)

HEREDITARY DISORDERS, METABOLIC ERRORS
SEE METABOLIC DISORDERS INBORN

HEREDITY
SEE GENETICS

HERNIA, DIAPHRAGMATIC
SEE BODY CAVITY DISORDERS, DIAPHRAGMATIC HERNIA

HERPESVIRUS INFECTIONS
SEE VIRUS DISEASES, HERPESVIRUS

HERPESVIRUSES
SEE VIRUSES, HERPESVIRUSES

HETEROCHROMOSOME
SEE GENETICS, CHROMOSOMES, SEX CHROMOSOMES

HETEROCYCLICS
SEE CYCLICS, HETEROCYCLICS

HETEROKARYON
SEE CELL HYBRIDS, HETEROKARYON

HETEROTRANSPLANTATION
SEE TISSUE COMPATIBILITY-TRANSPLANT, TRANSPLANTATION HETEROLOGOUS

HETEROZYGOTES
SEE GENETICS, GENOTYPES, HETEROZYGOTES

HUERISTICS (ARTIFICIAL INTELLIGENCE)
SEE COMPUTER, ARTIFICIAL INTELLIGENCE, PATTERN RECOGNITION AND CONTROL SYSTEMS

HEXOSAMINIDASE A AND B
SEE CARBOHYDRASES, HEXOSAMINIDASES

HEXOSAMINIDASES
SEE CARBOHYDRASES, HEXOSAMINIDASES

HEXOSANS, GALACTAN
R01HL-19685-03 Pathogenesis of inflammation of the lung (guinea pigs)

HEXOSANS, GLUCANS, DEXTRAN
P01HL-16851-04 0008 Human red cell membrane in health and disease - Force balance in red cell interactions (human)
R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)
R01HL-18590-03 Cerebral blood flow after cardiac arrest (dogs, monkeys)
R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
R01HL-20337-02 Thromboembolic diseases (human)
R23HL-21050-02 Mechanisms of re-expansion pulmonary edema (rabbits)
R01HL-22435-02 Pulmonary alveolar-capillary permeability characteristic (dogs)

HEXOSANS, GLUCANS, GLYCOGEN
SEE ALSO METABOLIC DISORDERS INBORN, GLYCOGENOSIS
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
** R01HL-13630-08 Control of glycogen synthesis in heart (cattle)
R01HL-15813-05 Cardiac anoxia--Protective effect of carbohydrate (dogs)
R01HL-19752-03 Phospholipid synthesis by fetal lung in organ culture (rats)
R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
R01HL-23161-01 0003 Biology of myocardial ischemia - Phosphorylase coupling to myocardial sarcoplasmic reticulum (dog)

HEXOSANS, GLUCANS, GLYCOGENOLYSIS
P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
P60HL-17269-04 0019 National heart and blood vessel research and demonstration center - Sarcoplasmic reticulum (dog, rabbit, hamster, cat)
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
R01HL-18239-03 Dietary fat composition and prostaglandin synthesis (rats)
** R01HL-18280-03 Regulation of cardiac contractility and metabolism (rats)
R01HL-20476-03 Effects of diabetes on cardiac performance (rat)
** R01HL-22064-02 Glycogen metabolism in anoxic diabetic myocardium (rats)
R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
** R01HL-22828-01 Adenosine and catecholamine interaction in the heart (rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-23161-01 0003 Biology of myocardial ischemia - Phosphorylase coupling to myocardial sarcoplasmic reticulum (dog)
R01HL-23161-01 0004 Biology of myocardial ischemia Structure of myofibrils and membranes in early ischemia (dogs, rabbit, rodents)

HEXOSANS, LEVANS, INULIN
R01HL-19463-02 Pathophysiology of acute renal failure (rats)

HEXOSEDIPHOSPHATASE
SEE PHOSPHOMONOESTERASES, FRUCTOSE 1,6-DIPHOSPHATASE

HEXOSE MONOPHOSPHATE PATHWAY
SEE PENTOSE PATHWAYS, HEXOSE MONOPHOSPHATE PATHWAY

HEXOSES
R01HL-16567-04 Differentiation of the heart-cell membrane (mice, chick)
** P01HL-16851-04 0006 Human red cell membrane in health and disease - Hexose transport and erythrocyte membrane proteins (human)

HEXOSES, FRUCTOSE
P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)

HEXOSES, GALACTOSAMINES
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

HEXOSES, GALACTOSAMINES, N-ACETYLGALACTOSAMINE
R01HL-15125-07 Molecular pathology of genetic disorders in man
R01HL-17881-15 Biosynthesis and degradation of blood group substances (human, animals)

HEXOSES, GLUCOGENESIS
SEE ALSO CARBOHYDRATES BIOSYNTHESIS
R01HL-15813-05 Cardiac anoxia--Protective effect of carbohydrate (dogs)

HEXOSES, GLUCONEOGENESIS
SEE ALSO CARBOHYDRATES BIOSYNTHESIS, GLYCONEOGENESIS
SEE ALSO KETONE BODIES
P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)

HEXOSES, GLUCOSAMINE
R01HL-13885-08 0008 Cystic fibrosis and pulmonary disease - Pseudomonas specific activation of alveolar macrophages (human, rabbits)
R01HL-21763-09 Heparin and heparan sulfate--Structure and activity (beef, hog)

HEXOSES, GLUCOSE
SEE ALSO CARBOHYDRATE BALANCE, GLUCOSE TOLERANCE
SEE ALSO CARBOHYDRATES METABOLISM, GLUCOSE METABOLISM
SEE ALSO CARBOHYDRATES TRANSPORT, GLUCOSE TRANSPORT
SEE ALSO HEXOSES, GLUCOGENESIS
SEE ALSO HEXOSES, GLYCOLYSIS
R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
R01HL-05883-18 0002 Reflex control of resistance and capacitance vessels - Adenosine, adenine nucleotides and vascular smooth muscle (dog)
P01HL-06285-18 0199 Cardiovascular-respiratory physiology and biochemistry - Renal tubular reabsorption of sodium chloride (hamsters, rabbits)
P01HL-06664-17 0036 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
** P01HL-06835-17 0022 Cardiovascular disease - Arterial lipogenesis from glucose in the rat
P01HL-06835-17 0024 Cardiovascular disease - Studies on the obese spontaneously hypertensive rat
P01HL-08899-14 0012 Tolerance to respiratory gases in health and disease - High oxygen for normal brain metabolism and circulation in man
P01HL-08899-14 0055 Tolerance to respiratory gases in health and disease - Oxygen effects on organ functions--Extension of tolerance
R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
P01HL-12157-11 0051 Functions and mechanisms of cell membrane ion transport - Electron transport in the red cell membrane (human, guinea pigs)
R01HL-13193-09 Pathophysiology of post-traumatic and shock states (rodents, dogs)
P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
R01HL-15813-05 Cardiac anoxia--Protective effect of carbohydrate (dogs)
R01HL-15949-05 Lipoprotein metabolism in relation to atherosclerosis (human, baboons)
P50HL-17667-04 0040 Study of ischemic heart disease Core biochemistry Cardiac metabolism (human)
R01HL-17847-04 Cardiovascular and renal functions of marmots
R01HL-17967-04 Limiting factors in oxygen uptake in the lung
R01HL-18537-04 Regional blood flow after acute myocardial injury (dogs)
R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
R01HL-18647-03 Ischemic myocardial injury in cultured heart cells (rats)
R01HL-19195-03 Hormonal regulation of lung function (rats)
R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)
P01HL-20552-02 0001 The development and regression of cardiac hypertrophy - Biochemical events in cardiac hypertrophy (rats)
R01HL-21140-01 Studies of pulmonay alveolar macrophage function (rabbits)
R01HL-21172-02 Regional oxygen consumption of heart and other organs (animals)
R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
R01HL-22500-01 Conversion of choline to phosphatidylcholine in lung (rabbits, pigs)
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)

HEXOSES, GLUCOSE, O-METHYL GLUCOSE
R01HL-13029-09 Metabolic regulation of sugar transport (pigeons, rats)

HEXOSES, GLUCOSE-6-PHOSPHATES
R01HL-20393-03 Postsynthetic modifications of hemoglobin in diabetics (human)

HEXOSES, GLYCOLYSIS
SEE ALSO PENTOSE PATHWAYS
SEE ALSO TRICARBOXYLIC ACIDS, KREBS CYCLE
R01HL-13193-09 Pathophysiology of post-traumatic and shock states (rodents, dogs)
R01HL-13567-06 Ion transport across cell membranes (human)
P50HL-14138-05 0015 Center for research on atherosclerosis - Arterial wall--Intermediary metabolism, enzyme activity and bioenergetics
P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
R01HL-15622-05 Computer simulation in cardiology (rats, dogs)
** P60HL-16008-06 0016 Wayne State University comprehensive sickle cell center - Red blood cell glycolysis in sickle cell patients
** P50HL-17667-04 0012 Study of ischemic heart disease - Biochemistry of normal and ischemic heart--Glycolysis (rats)
R01HL-17729-04 Stimulus-response coupling in platelets (human)
** R01HL-17976-18 Chemical agents and heart glycolytic enzymes (sheep)
** R01HL-18206-04 Regulation of metabolism in oxygen deficient hearts (rats)
P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
R01HL-20484-03 Effects of diabetes on cardiac function and metabolism (rats)
R01HL-20566-02 Lactate metabolism in the lung (rats)
P60HL-20985-01 0006 Northern California sickle cell center - Antisickling properties of imidoesters (human, rats)
R01HL-21381-02 Amino acid metabolism in normal and hypoxic myocardium (rabbits)
R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
R01HL-22333-01 Cellular basis of small airways function (rats)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R01HL-23159-01 Regulation of lipogenesis by polyunsaturated fats (rats, chicks)
R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)

HEXOSES, GLYCOLYSIS ANAEROBIC
P50HL-17670-04 0023 Study of ischemic heart disease Energy metabolism in acute myocardial ischemic injury (dogs)
R01HL-18143-03 Surgery and pulmonary tissue alterations (dogs, rats, human)
R01HL-22064-02 Glycogen metabolism in anoxic diabetic myocardium (rats)
R01HL-23166-01 Pathology of mitochondria in ischemic myocardium (rats, cattle)

HEXOSES, GLYCOLYSIS ANAEROBIC, E-M PATHWAY
R01HL-19324-02 Mechanisms of the inhibition of sickling by OBA (human)

HEXOSES, MANNOSE
R01HL-17783-04 Complex carbohydrates--Structure, function, synthesis (swine)

HGPRT
SEE GLYCOSYLTRANSFERASES, IMP:PYROPHOSPHATE PHOSPHORIBOSYLTRANSFERASE

HIATUS HERNIA
SEE BODY CAVITY DISORDERS, DIAPHRAGMATIC HERNIA

HIBERNATION
SEE ENVIRONMENT, ADAPTATION, HIBERNATION

HIGH-DENSITY LIPOPROTEIN DEFICIENCY FAMILIAL
SEE METABOLIC DISORDERS INBORN, HYPOLIPOPROTEINEMIAS FAMILIAL, TANGIER DISEASE

HIGH DENSITY LIPOPROTEINS
SEE LIPOPROTEINS BLOOD, HDL

HIGH ENERGY COMPOUNDS
SEE BIOENERGETICS, HIGH ENERGY COMPOUNDS

HIGH ENERGY PARTICLE ACCELERATORS
SEE RADIATION, PARTICLE ACCELERATORS

HIGH FIBER DIET
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY RESIDUES-FIBERS

HIGH PRESSURE LIQUID CHROMATOGRAPHY
SEE PHYSICAL SEPARATION, CHROMATOGRAPHY, HIGH PRESSURE LIQUID*

HIGH RENIN HYPERTENSION
SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), ANGIOTENSIN-RENIN-ALDOSTERONE-ASSOCIATED

HIGH RESIDUE DIET
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY RESIDUES-FIBERS

HIGH RISK, DISEASE PRONENESS
SEE DISEASE PRONENESS-RISK

HIGH-RISK PREGNANCIES (INTRAUTERINE FAILURE TO THRIVE)
SEE PREGNANCY DISORDERS, EMBRYO-FETAL GROWTH-DEVELOPMENT DISORDERS (SEE ALSO APPROPRIATE SPECIFICS)

HIGH SCHOOL
SEE EDUCATION, SCHOOLS, SECONDARY

HIP PROSTHESIS
SEE SKELETAL DISORDERS, ORTHOPEDICS, HIP PROSTHESIS

HIP REPLACEMENT PROSTHESIS
SEE SKELETAL DISORDERS, ORTHOPEDICS, HIP PROSTHESIS

HIP SURGERY
SEE SKELETAL DISORDERS, ORTHOPEDICS, HIP SURGERY

HIPPOCAMPAL FORMATION
SEE BRAIN, CEREBRUM, HIPPOCAMPAL FORMATION

HIRSUTISM
SEE DISEASES, SIGNS-SYMPTOMS, HIRSUTISM

HIRUDEN
SEE BLOOD COAGULATION, HIRUDEN

HISTAMINASE
SEE OXIDOREDUCTASES, AMINE OXIDASE (PYRIDOXAL-CONTAINING)

HISTAMINE
SEE IMIDAZOLES, HISTAMINE

HISTAMINE ANTAGONISTS
SEE HYPERSENSITIVITY, ANTIALLERGY DRUGS, HISTAMINE ANTAGONISTS

HISTAMINE LIBERATION
SEE IMIDAZOLES, HISTAMINE LIBERATION

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

HISTIDINE
SEE CYCLIC AMINO ACIOS, HISTIOINE

HISTIDINE DECARBOXYLASE
SEE OECARBOXYLASES, HISTIOINE OECARBOXYLASE

HISTOCHEMISTRY AND CYTOCHEMISTRY (GENERAL)*
** P01HL-06370-17 0018 Cardiopulmonary and renal pathology research center - Cytochemistry and immunology of lymphoproliferative disorders (human)
** P01HL-08682-15 0011 Regulation of the cardiovascular system - Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels)
** P01HL-08974-14 9002 Natural and experimental atherosclerosis - Core--Histology and histochemistry laboratory
** P01HL-12373-10 0016 Cardiopulmonary physiology and pathophysiology - Histology-histochemistry-Gough laboratory
P50HL-14230-07 0099 A/S SCOR--Lipids, atherosclerosis and thrombosis - Morphological, cytochemical study of normal and altered vasculature (mice)
P01HL-14388-07 0194 Regulation of the circulation in pathological states - Oopamine-beta-hydroxylase localization and release in hypertension
P01HL-14388-07 0212 Regulation of the circulation in pathological states - Role of dopamine in autonomic activity
** P60HL-17269-04 0021 National heart and blood vessel research and demonstration center - Growth and development of heart--Ultrastructure (dog, guinea pig, rat, cat)
P50HL-17651-04 0036 Ischemic heart disease specialized center of research - Core facilities--Cardiovascular pathology (human, dog)
R01HL-18012-04 Cellular defects in nocturnal hemoglobinuria (human)
R01HL-19009-03 Morphometric analysis of the sinoatrial node (ferret)
P50HL-19160-02 0002 Mucus abnormality in cystic fibrosis - Ultrastructure, cytochemistry of pulmonary secretion (human, rat)
P50HL-19171-02 0008 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Electron microscopy, radioautography, histochemistry
R01HL-21008-02 Effect of pollutants on organotypic lung cultures (rats)
** R01HL-21038-01 Electrically induced cardiac EM-histochemical changes (animals)
** R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase
** R01HL-22402-01 Heparin-biophysical, chemical and biological aspects (mice, human)
P01HL-22602-01 9001 Pathophysiology of the endothelium - Morphology core
R01HL-23161-01 0004 Biology of myocardial ischemia - Structure of myofibrils and membranes in early ischemia (dogs, rabbit, rodents)

HISTOCOMPATIBILITY
SEE TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOIMMUNITY

HISTOCOMPATIBILITY ANTIGENS
SEE TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOANTIGENS

HISTOCOMPATIBILITY TYPING
SEE TISSUE COMPATIBILITY-TRANSPLANT, HISTOCOMPATIBILITY TYPING

HISTOGENESIS
SEE GROWTH ANO OEVELOPMENT, HISTOGENESIS

HISTOLOGY (GENERAL)*
SEE ALSO TISSUE (GENERAL)
SEE ALSO TISSUE ANO CELL PREPARATION
** R01HL-01770-26 Structural aspects of lung surfactant system (rats)
** P01HL-08974-14 9002 Natural and experimental atherosclerosis - Core--Histology and histochemistry laboratory
R01HL-12879-09 0010 Pulmonary transport and metabolism in vivo - Lung morphometry in control and edematous lungs (dogs)
R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
R01HL-16420-02 Effect of training-detraining on the rat heart
** R01HL-16935-05 Tissue organization and turnover in the semilunar valve (dogs, rats)
R01HL-18560-03 Cardiovascular adaptation to stress (miniature swine)
R01HL-19009-03 Morphometric analysis of the sinoatrial node (ferret)
R01HL-19379-03 Characterization of small-granule cells in the lung (mammals)
R01HL-20548-02 Innervation of the lung (rats, monkeys)
R01HL-20902-02 Studies on marginal band system of erythrocytes (amphibians, reptiles, fish)
P01HL-20994-02 9003 Oynamics of neutrophil elastase in the lung - Autoradiography--Histology core
R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)

HISTONES
SEE NUCLEOPROTEINS, HISTONES

HISTOPATHOLOGY (GENERAL)*
** R01HL-04300-20 Fine structure of diseased glomeruli (human, rats, dogs)
** P01HL-06370-17 0017 Cardiopulmonary and renal pathology research center - Oetection of pulmonary lesions--Radiologic pathologic correlation
P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Oirofilaria immitis in the dog
P01HL-08974-14 0005 Natural and experimental atherosclerosis - Atherosclerosis, coronary heart disease and sudden death (human)
** P01HL-10436-13 0009 A multidisciplinary study of congenital heart disease - Pathophysiology and morphogenesis of congenital heart disease (human)
R01HL-10980-11 Ultrastructural renal pathology (human, rats)
P01HL-12738-10 0136 Physiologic pharmacology and its clinical applications -
** P50HL-14136-07 0004 Pulmonary SCOR--Airways obstructive diseases - Morphometric studies of developing emphysema (human)
P50HL-14136-07 9003 Pulmonary SCOR--Airways obstructive diseases - Pathology core (human, dogs)
P50HL-14212-07 0011 Correlated studies of pulmonary fibrosis - Pathology core (human, animal)
** P50HL-14214-07 0037 Newborn lung center for hyaline membrane disease - Core--Histopathology laboratories
R01HL-14571-05 Myocardial preservation and coronary reperfusion (baboons, dogs)
P50HL-15389-07 0018 Pulmonary SCOR--Hypersensitivity pneumonitis - Pathology core (human, animal)
R01HL-16757-04 'Autoimmune' thrombocytopenia (monkey)
P01HL-16769-05 0004 Pathobiologic and host defense reactions in the lung - Pathogenesis of Pseudomonas and Serratia pneumonias (rabbits)
P01HL-16769-05 0009 Pathobiologic and host defense reactions in the lung - Electron microscopy and tissue culture core laboratory
R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
P50HL-17646-04 0003 Study of ischemic heart disease - Core pathology facility (human, dogs)
P50HL-17648-04 0031 Study of ischemic heart disease - Ultrastructural consequences of myocardial ischemia (rat)
** P50HL-17651-04 0036 Ischemic heart disease specialized center of research - Core facilities--Cardiovascular pathology (human, dog)
P50HL-17655-04 0010 Study of ischemic heart disease - Core facility--Cardiovascular pathology (human, animal)
P50HL-17682-04 0012 Study of ischemic heart disease - Pathology core laboratory (human)
R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
R01HL-18631-03 Ultrastructural correlates of myocardial ischemia (rats, swine)
R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
** R01HL-18793-03 Clinical-pathologic studies of sudden cardiac death (human)
** R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
R01HL-19000-03 Irreversible myocardial injury (rats)
R01HL-19225-02 0001 Types and mechanims of pulmonary hypertension - Structural changes (human, animals)
R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
R01HL-19381-03 Pathogenesis of viral induced atherosclerosis (human, chicken)
** R01HL-20400-03 Oiabetic neuropathy and peripheral vascular diseases (human, hamsters)
R01HL-20500-02 Oiabetic human brain microvascular basement membrane (human)
** P01HL-20552-02 9001 The development and regression of cardiac hypertrophy - Core A--Pathology
** R01HL-20878-02 Cellular aspects of lung injury (rats, rabbits)
** R01HL-20895-03 0009 Cineangiographic studies of cardiovascular system - Aortic changes in atheromatosis (rabbits)
R01HL-22341-01 Pathogenesis of atherosclerosis in rats
R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
R01HL-22676-01 Pathogenesis in experimental interstitial pneumonitis (rabbits)
R01HL-22784-01 Ouctus arteriosus closure--An arterial lesion model (rabbits)
** R01HL-22963-01 Symbolic logic analysis of congenital heart disease (human)

HL-A ANTIGENS
SEE TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOANTIGENS, LEUKOCYTE

HL-A TYPING
SEE TISSUE COMPATIBILITY-TRANSPLANT, HISTOCOMPATIBILITY TYPING, LEUKOCYTE TYPING

HMG-COENZYME A REDUCTASE
SEE OXIOOREOUCTASES, HMG-COENZYME A REDUCTASE

HMO
SEE HEALTH CARE PROFESSIONAL PRACTICE, GROUP PRACTICE, HMO

HODGKIN'S DISEASE
SEE NEOPLASMS OF BLOOO ANO RE SYSTEM, HOOGKIN'S OISEASE

HOLOGRAPHY
SEE OPTICS, PHOTOGRAPHY, HOLOGRAPHY*

HOLOGRAPHY, ACOUSTIC
SEE OPTICS, PHOTOGRAPHY, HOLOGRAPHY, ACOUSTIC*

HOLOGRAPHY, ULTRASONIC
SEE OPTICS, PHOTOGRAPHY, HOLOGRAPHY, ACOUSTIC*

HOME CARE
SEE HEALTH CARE SERVICES, HOME CARE

HOMEOSTASIS, HOMEOSTATIC CONTROL
SEE INFORMATION PROCESSING ANO CONTROL (BIOLOGICAL), HOMEOSTASIS

HOMOCYSTINE
SEE SULFUR AMINO ACIOS, HOMOCYSTINE

HOMOCYSTINURIA
SEE METABOLIC OISOROERS INBORN, AMINOACIOOPATHIES, HOMOCYSTINURIA

HOMOPEPTIDES
SEE PEPTIOES, HOMOPEPTIOES

HOMOSERINE
SEE AMINO ACIOS, HOMOSERINE

HOMOTRANSPLANTATION
SEE TISSUE COMPATIBILITY-TRANSPLANT, TRANSPLANTATION HOMOLOGOUS

HOMOZYGOTES
SEE GENETICS, GENOTYPES, HOMOZYGOTES

HORMONAL REGULATION AND CONTROL (MECHANISMS)
SEE ENOOCRINOLOGY, HORMONAL REGULATION ANO CONTROL (MECHANISMS)

HORMONE BINDING PROTEINS
SEE ENOOCRINOLOGY, HORMONE BINOING PROTEINS
SEE GLOBULINS, CORTICOSTEROIO BINOING GLOBULIN
SEE HALOPROTEINS, THYROXINE BINOING PROTEINS

HORMONE RECEPTORS
SEE ENOOCRINOLOGY, HORMONE RECEPTORS

HORMONES
SEE ENOOCRINOLOGY, HORMONES

HORMONES ANALOGS
SEE ENOOCRINOLOGY, HORMONES ANALOGS

HORMONES BIOSYNTHESIS
SEE ENOOCRINOLOGY, HORMONES BIOSYNTHESIS

HORMONES INHIBITORS
SEE ENOOCRINOLOGY, HORMONES INHIBITORS

HORMONES METABOLISM
SEE ENOOCRINOLOGY, HORMONES METABOLISM

HOSPITAL FEES
SEE HEALTH ECONOMICS, HEALTH CARE COSTS-FINANCING

HOSPITAL INFORMATION SYSTEMS
SEE BIOMEOICAL SYSTEMS AUTOMATEO, HEALTH CARE FACILITIES (SYSTEMS) INFORMATION SYSTEMS

HOSPITAL SHARED SERVICES
SEE HEALTH CARE SERVICES, SHAREO SERVICES

HOSPITALIZATION
SEE HEALTH CARE SERVICES, PATIENT CARE, HOSPITAL PATIENTS

HOSPITALS, INTENSIVE CARE UNITS
** P50HL-14214-07 0034 Newborn lung center for hyaline membrane disease - Core--Newborn intensive care unit
R01HL-17993-04 0010 Ventricular dynamics from surgically inserted markers - Postoperative cardiovascular visualization (human)
** P50HL-19190-02 0001 Pulmonary SCOR--Pathophysiology, management of IROS - Core--Clinical research center (infants)
P50HL-19190-02 0002 Pulmonary SCOR--Pathophysiology, management of IROS - Core--Oemonstration and dissemination
R01HL-22636-01 Newborn lung function during mechanical ventilation (human)

HOSPITALS, INTENSIVE CARE UNITS, CORONARY
P60HL-17269-04 0031 National heart and blood vessel research and demonstration center - Computer-assisted data acquisition and clinical data processing
** P50HL-17646-04 0001 Study of ischemic heart disease - Core clinical investigation unit

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P50HL-17682-04 0008 Study of ischemic heart disease - Clinical core unit

HOSPITALS, INTENSIVE CARE UNITS, RESPIRATORY

P50HL-19155-02 0001 Pathophysiology of pulmonary edema - Pulmonary edema study unit (human, dog)
R01HL-22022-01 Respiratory muscle dysfunction in respiratory failure (human)

HOSPITALS, NURSERY

** P50HL-14214-07 0034 Newborn lung center for hyaline membrane disease - Core-Newborn intensive care unit
** P50HL-19190-02 0001 Pulmonary SCOR--Pathophysiology, management of IRDS - Core--Clinical research center (infants)

HOSPITALS, OUTPATIENT FACILITIES

SEE ALSO HEALTH CARE SERVICES, PATIENT CARE, HOSPITAL PATIENTS

** P50HL-14136-07 9005 Pulmonary SCOR--Airways obstructive diseases - Clinical core
P60HL-15158-07 0011 Comprehensive sickle cell center - Clinical services--Adult patients
P60HL-15158-07 0012 Comprehensive sickle cell center - Clinical services--Pediatric patients
** P60HL-15170-05 0001 Support for center for sickle cell anemia - Adult clinical services
P60HL-15170-05 0023 Support for center for sickle cell anemia - Comprehensive sickle cell clinic
** P60HL-16008-06 0001 Wayne State University comprehensive sickle cell center - Patient care system (children, adults)
R01HL-17604-03 Wearable blood pressure and ECG recording system
P60HL-20985-01 0009 Northern California sickle cell center - Patient services (children, adults)
** P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
** P01HL-21016-02 0017 Sickle cell anemia and other hemoglobinopathies - The hereditary clinic core
** N01HV-12157-14 Lipid research clinic (human)
N01HV-12158-10 Establishment of a lipid research clinic
** N01HV-12159-09 Lipid research clinic
** N01HV-12160-15 Establishment of a lipid research clinic
** N01HV-22913-09 Lipid research clinic
N01HV-22914-08 Establishment of a lipid research clinic
** N01HV-22915-11 Establishment of lipid research clinic
** N01HV-22916-16 Establishment of a lipid research clinic
** N01HV-22932-09 Establishment of a lipid research clinic
** N01HV-32931-09 Establishment of a lipid research clinic center

HOSPITALS ANALYSIS

** P60HL-17292-04 0030 Vermont Lung Center - Hospital treatment of pneumonia

HOSPITALS INFECTIONS

SEE ALSO BACTERIAL DISEASES, STAPHYLOCOCCAL INFECTIONS
SEE ALSO INJURIES, SURGICAL WOUND INFECTION
P01HL-06370-17 0016 Cardiopulmonary and renal pathology research center - Endocarditis with pulmonary artery catheters (dogs)

HOSPITALS PATIENTS (CARE)

SEE HEALTH CARE SERVICES, PATIENT CARE, HOSPITAL PATIENTS

HOSPITALS UTILIZATION

SEE ALSO HEALTH CARE (SERVICES)(RESOURCES) UTILIZATION
N01HR-72974-01 Self-management systems for asthmatic children

HOST-MICROORGANISM

SEE ENVIRONMENT, ECOLOGY ORGANISMS, HOST-ORGANISM

HOST-ORGANISM

SEE ENVIRONMENT, ECOLOGY ORGANISMS, HOST-ORGANISM

HOST-RESTRICTION ENDONUCLEASES

SEE NUCLEASES, ENDONUCLEASES (GENERAL)

HOST-VIRUS

SEE VIRUS DISEASE CHARACTERISTICS, HOST-VIRUS

HOSTILITY

SEE PSYCHOLOGY, BEHAVIOR, AGGRESSION

HOUSING

SEE SOCIOENVIRONMENT, RESIDENCE CHARACTERISTICS, HOUSING

HOWLERS

SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*

HPP(ALLOPURINOL)

SEE DIAZOLODIAZINES, PYRAZOLOPYRIMIDINES, ALLOPURINOL

HUMAN AND HUMAN RELATED POPULATION STUDIES

SEE POPULATION STUDIES HUMAN

HUMAN EMBRYOLOGY AND DEVELOPMENT STUDY SECTION

SEE EMBRYOLOGY (HUMAN) AND DEVELOPMENT STUDY SECTION

HUMIDITY

SEE ENVIRONMENT, ATMOSPHERE, HUMIDITY

HUMORAL ANTIBODIES (GENERAL)

SEE IMMUNOLOGY, ANTIBODIES

HUMORAL ANTIBODIES SENSITIZING

SEE HYPERSENSITIVITY, SENSITIZING ANTIBODIES HUMORAL

HUMORAL (ANTIBODY) HYPERSENSITIVITY

SEE HYPERSENSITIVITY, IMMEDIATE HYPERSENSITIVITY

HUMORAL IMMUNITY

SEE IMMUNITY, HUMORAL IMMUNITY

HYALINE MEMBRANE DISEASE

SEE CONGENITAL ABNORMALITIES, RESPIRATORY DISTRESS SYNDROME

HYALINOSIS, CUTANEOUS-MUCOSAL

SEE LIPOGRANULOMATOSES, LIPOID PROTEINOSIS

HYALURONATE LYASE

SEE POLYSACCHARIDE C-O LYASES, HYLURONATE LYASE

HYALURONIC ACID

SEE POLYSACCHARIDES, GLYCOSAMINOGLYCANS, HYALURONIC ACID

HYALURONIDASE

SEE CARBOHYDRASES, HYALURONIDASE

HYALURONOGLUCOSIDASE

SEE CARBOHYDRASES, HYALURONIDASE

HYBRID CELLS

SEE CELL HYBRIDS

HYBRID ENZYMES

SEE ENZYMES, HYBRID ENZYMES

HYBRID NUCLEIC ACIDS

SEE NUCLEIC ACIDS, UNNATURAL NUCLEIC ACIDS, HYBRID NUCLEIC ACIDS

HYBRIDS

SEE GENETICS, GENOTYPES, HETEROZYGOTES

HYDATIDIFORM MOLE

SEE PREGNANCY, PLACENTAL NEOPLASMS, HYDATIDIFORM MOLE

HYDRATION REACTIONS

SEE CHEMICAL REACTIONS, HYDRATION

HYDRAZINOPHTHALAZINE

SEE AZO COMPOUNDS, HYDRAZINOPHTHALAZINE

HYDROCARBONS

SEE ALSO ALKANES
SEE ALSO ALKYNES
SEE ALSO CYCLICS, CARBOPOLYCYCLICS
P01HL-03174-23 0010 Mechanisms of acute vascular reaction to injury - Search for mutagens in the human blood (bacteria, animals)
P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury - Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)
P01HL-06314-17 0051 Immunologic mechanisms in cardiovascular disease - Conformational studies of phospholipid membranes and proteins
R01HL-20996-02 Structural and reactivity of iron and cobalt complexes

HYDROCHOLERETICS

SEE BILE, CHOLAGOGUES AND CHOLERETICS

HYDROCORTISONE

SEE ADRENAL CORTEX HORMONES, HYDROCORTISONE

HYDRODYNAMICS

SEE PHYSICAL PROPERTIES, FLUID DYNAMICS (GENERAL)

HYDROGEN

P01HL-16878-05 0004 Control of ventilation in health and disease - Neurotransmitters in the respiratory system (cats)
R23HL-21434-02 Intrinsic control of coronary blood flow by chemicals (guinea pigs)

HYDROGEN, TRITIUM*

R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)
R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
R01HL-21831-05 Determining sequences from hemoglobin messenger RNA (mice, chickens, rabbits)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
R01HL-22567-01 Validation of a cholesterol absorption method in man

HYDROGEN BOND

SEE CHEMICAL BONDS, HYDROGEN BOND

HYDROGEN GENERATING TISSUE BLOOD FLOW PROBE

SEE CARDIOVASCULAR DISORDERS DIAGNOSIS, BLOOD FLOW MEASUREMENTS, HYDROGEN*

HYDROGEN-ION CONCENTRATION

SEE ACIDS-BASES, HYDROGEN-ION CONCENTRATION

HYDROGEN PEROXIDE

SEE PEROXIDES, HYDROGEN PEROXIDE

HYDROGEN PUMP

SEE BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS, HYDROGEN PUMP

HYDROGEN TRANSPORT

SEE CHEMICAL TRANSFER, HYDROGEN TRANSPORT

HYDROGENOMONAS

SEE BACTERIA, PSEUDOMONADALES, PSEUDOMONAS*

HYDROLASES

SEE ALSO AMINOHYDROLASES
SEE ALSO CARBOHYDRASES
SEE ALSO ESTERASES
SEE ALSO N-GLYCOSYLHYDROLASES
SEE ALSO PHOSPHATASES
SEE ALSO PROTEASES AND PEPTIDASES, PEPTIDASES
R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
R01HL-11897-11 Pathogenesis of experimental atherosclerosis (rabbits, guinea pigs)
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
** P50HL-14153-07 0004 Johns Hopkins Lung Center--Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)
R01HL-16637-04 Development and regression of cardiac hypertrophy (rats)
R01HL-18089-04 Fatty acid metabolism in heart and its regulation (swine, rats)
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
R01HL-18631-03 Ultrastructural correlates of myocardial ischemia (rats, swine)
R01HL-18682-03 Protein kinase and cholesterol metabolism in aorta (rabbits)
** R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
R01HL-19083-02 Rapid specific micro measurement of blood cholesterol
** P01HL-19717-02 0002 Response of the lung to injury - Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)
P01HL-19717-02 0010 Response of the lung to injury - Proteoglycans in lung function and structure (hamsters)
R01HL-19936-02 Unsaturated fatty acid biosynthesis in the aorta (rats)
R01HL-21095-02 Enzymes of M tuberculosis and obstructive lung disease (human, rodents)
** R23HL-21411-02 Control of extracellular lysosomal hydrolase levels (rats)
R01HL-21498-02 Pathophysiology of edema (rats, cats)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)

HYDROLYSIS

SEE CHEMICAL REACTIONS, SOLVOLYSIS, HYDROLYSIS

HYDRONEPHROSIS

SEE KIDNEY DISORDERS, HYDRONEPHROSIS

HYDROPHOBIC BONDS

SEE CHEMICAL BONDS, HYDROPHOBIC

HYDROPS

SEE BODY FLUID BALANCE, EDEMA

HYDROPYRIDINES

SEE PYRIDINES, HYDROPYRIDINES

HYDROSTATIC PRESSURE

SEE PHYSICAL PROPERTIES, FLUID STATE, HYDROSTATIC PRESSURE

HYDROTHERAPY

SEE THERAPY, HYDROTHERAPY

HYDROXAMIC ACIDS

SEE AMINES, HYDROXYLAMINES, HYDROXAMIC ACIDS

2-HYDROXYBENZOIC ACID

SEE PHENYLCARBOXYLATES, SALICYLATES

BETA-HYDROXYBUTYRATE DEHYDROGENASE

SEE OXIDOREDUCTASES, BETA-HYDROXYBUTYRATE DEHYDROGENASE

BETA-HYDROXYBUTYRIC ACID

SEE FATTY ACIDS, BETA-HYDROXYBUTYRIC ACID

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

HYDROXYCHOLESTEROLS
SEE CHOLESTANE SERIES, HYDROXYCHOLESTEROLS

HYDROXYDAUNOMYCIN
SEE ANTIBIOTICS, ADRIAMYCIN

10-HYDROXYDECANOIC ACID
SEE FATTY ACIOS, 10-HYDROXYDECANOIC ACID

6-HYDROXYDOPAMINE
SEE PHENYLALKYLAMINES, CATECHOLAMINES, L-HYOROXYDOPAMINE

HYDROXY FATTY ACIDS
SEE FATTY ACIOS, HYOROXY FATTY ACIDS

HYDROXYLASES (GENERAL)
SEE OXYGENASES, HYOROXYLASES (GENERAL)

HYDROXYLATION REACTIONS
SEE CHEMICAL REACTIONS, HYOROXYLATION

HYDROXYLYSINE
SEE OIAMINO ACIDS, LYSINE, HYOROXYLYSINE

HYDROXYMETHYLGLUTARYL COENZYME A REDUCTASE
SEE OXIOOREDUCTASES, HMG-COENZYME A REOUCTASE

HYDROXYPROLINE
SEE CYCLIC AMINO ACIDS, PROLINE, HYDROXYPROLINE

HYDROXYPROPIONIC ACID
SEE FATTY ACIDS, LACTATES

4-HYDROXY-1H PYRAZOLO(3,4-D)PYRIMIDINE
SEE OIAZOLODIAZINES, PYRAZOLOPYRIMIOINES, ALLOPURINOL

HYDROXYPYRIDINES
SEE PYRIDINOLS

HYDROXYSTEROIDS
SEE STEROIDS, HYDROXYSTEROIDS

5-HYDROXYTRYPTAMINE
SEE BENZOPYRROLES, SEROTONIN

HYPERALDOSTERONISM
SEE ADRENAL GLANOS OISOROERS, HYPERALOOSTERONISM

HYPERALIMENTATION (THERAPY)
SEE NUTRITION, OIET THERAPEUTIC, HYPERALIMENTATION (THERAPY)

HYPERBARIC FACILITY
SEE ENVIRONMENTAL CHAMBER CONTROLLEO, HYPERBARIC FACILITY

HYPERBARIC OXYGENATION
SEE RESPIRATORY ASSIST ANO OXYGEN ADMINISTRATION, HYPERBARIC OXYGENATION

HYPERBILIRUBINEMIA NEONATAL TRANSIENT
SEE JAUNDICE NEONATAL (TRANSIENT)

HYPERBILIRUBINEMIA, NEONATAL (TRANSIENT) (IDIOPATHIC) (PHYSIOLOGICAL)
SEE JAUNOICE NEONATAL (TRANSIENT)

HYPERCALCEMIA
SEE CALCIUM (MINERAL) IMBALANCES, HYPERCALCEMIA

HYPERCAPNIA
SEE RESPIRATORY GAS LEVELS, HYPERCAPNIA

HYPERCHOLESTEREMIA
SEE LIPIOS BLOOO, HYPERCHOLESTEREMIA

HYPERCHOLESTEREMIA ESSENTIAL FAMILIAL
SEE METABOLIC OISOROERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE II

HYPERCHYLOMICRONEMIA WITH HYPERBETALIPOPROTEINEMIA FAMILIAL
SEE METABOLIC OISOROERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE V

HYPERGLYCEMIA
SEE CARBOHYORATE BALANCE, HYPERGLYCEMIA

HYPERGLYCEMIC-GLYCOGENOLYTIC FACTOR OF PANCREAS
SEE PANCREAS HORMONES, GLUCAGON

HYPERGLYCEMIC OBESITY HEREDITARY
SEE METABOLIC OISOROERS INBORN, OBESITY HEREOITARY HYPERGLYCEMIC

HYPERHYDRATION
SEE BOOY FLUIO BALANCE, BOOY WATER EXCESS

HYPERIMMUNIZATION
SEE IMMUNITY, IMMUNIZATION, HYPERIMMUNIZATION

HYPERINSULINISM
SEE PANCREATIC ISLETS OISOROERS, HYPERINSULINISM

HYPERKALEMIA
SEE BOOY FLUIO BALANCE, IONIC, HYPERKALEMIA

HYPERKINESIA (NEUROMOTOR DISORDERS)
SEE NEUROMOTOR OISOROERS, HYPERKINESIA

HYPERLIPEMIA
SEE LIPIOS BLOOO, HYPERLIPEMIA

HYPERLIPEMIA ESSENTIAL FAMILIAL
SEE METABOLIC OISOROERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE I

HYPERLIPEMIA HYPERGLYCEMIC
SEE METABOLIC OISOROERS INBORN, OBESITY HEREDITARY HYPERGLYCEMIC

HYPERLIPEMIA IDIOPATHIC
SEE METABOLIC OISORDERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE I

HYPERLIPIDEMIA
SEE LIPIOS BLOOO, HYPERLIPEMIA

HYPERLIPOPROTEINEMIA
SEE LIPOPROTEINS BLOOO, HYPERLIPOPROTEINEMIA

HYPERLIPOPROTEINEMIA FAMILIAL, TYPE I
SEE METABOLIC OISORDERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE I

HYPERLIPOPROTEINEMIA FAMILIAL, TYPE II
SEE METABOLIC OISOROERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE II

HYPERLIPOPROTEINEMIA FAMILIAL, TYPE III
SEE METABOLIC OISOROERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE III

HYPERLIPOPROTEINEMIA FAMILIAL, TYPE IV
SEE METABOLIC OISOROERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE IV

HYPERLIPOPROTEINEMIA FAMILIAL, TYPE V
SEE METABOLIC OISOROERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE V

HYPERLIPOPROTEINEMIAS FAMILIAL
SEE METABOLIC OISOROERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL

HYPEROSMOLARITY, BLOOD
SEE BLOOO OSMOTIC PRESSURE, HYPEROSMOLARITY

HYPEROSMOLARITY, BODY FLUIDS
SEE BOOY FLUIO BALANCE, OSMOTIC PRESSURE, HYPEROSMOLARITY

HYPEROXIA
SEE RESPIRATORY ASSIST ANO OXYGEN AOMINISTRATION, HYPEROXIA

HYPERPARATHYROIDISM
SEE PARATHYROID GLANOS OISOROERS, HYPERPARATHYROIOISM

HYPERPLASIA (GENERAL)
SEE GROWTH ABNORMAL, HYPERPLASIA (GENERAL)

HYPERPNEA
SEE RESPIRATORY FUNCTION, HYPERPNEA

HYPERPREBETA AND HYPERBETALIPOPROTEINEMIA FAMILIAL
SEE METABOLIC OISOROERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE III

HYPERPREBETALIPOPROTEINEMIA FAMILIAL
SEE METABOLIC OISOROERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE IV

HYPERSENSITIVITY (GENERAL)
SEE ALSO ALLERGY ANO IMMUNOLOGY STUOY SECTION
SEE ALSO IMMUNOLOGY (GENERAL)
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, IMPLANT COMPATIBILITY

** RD1HL-01803-23 0D11 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
RD1HL-01803-23 0015 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic endothelial injury and lipid diet atherosclerosis (rabbits, monkey)
** R01HL-01803-23 D021 Arteriosclerosis, glomerulonephritis, rheumatic fever - Induction of IgE antibodies to antigen from tobacco and cigarette smoke (rabbits)
R01HL-03919-20 The cell suface of streptococci (rats, human)
** R01HL-D8399-15 Platelet injury in infections and allergic diseases (human)
RD1HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-15124-D5 Genesis of hypertension in renal disease (human, dogs)
R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
P50HL-19156-D2 00D4 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
R23HL-22D11-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)

HYPERSENSITIVITY, ALLERGENS
SEE ALSO IMMUNOLOGY, ANTIGENS
SEE ALSO IMMUNOLOGY, HAPTENS
SEE ALSO TOXICOLOGY, ANIMAL POISONS, INSECTS BITES STINGS VENOMS

RD1HL-01803-23 0022 Arteriosclerosis, glomerulonephritis, rheumatic fever - Cardiac and pulmonary anaphylaxis induced by tobacco glycoprotein (rabbits)
PD1HL-17382-05 0D02 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
P5DHL-18828-03 D006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
P50HL-19155-02 0004 Pathophysiology of pulmonary edema - Physical and chemical effects of multiple pulmonary emboli (sheep)
P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
P5DHL-19156-D2 DD05 Pulmonary SCOR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
** RD1HL-22582-D1 Pulmonary and circulatory alterations induced by IGE

HYPERSENSITIVITY, ALLERGENS AIRBORNE
SEE ALSO RESPIRATORY OISORDERS, RESPIRATORY SYSTEM TOXINS

P5DHL-14136-07 DD16 Pulmonary SCOR--Airways obstructive diseases - Environmental factors in airways obstructive diseases (human)
P50HL-14153-D7 DD11 Johns Hopkins Lung Center--Chronic diseases of airways - Allergy, airways reactivity and asthma in human ragweed allergy
P50HL-14153-07 0012 Johns Hopkins Lung Center--Chronic diseases of airways - Aspirin intolerance in reversible lung disease (human)
P50HL-14153-D7 D016 Johns Hopkins Lung Center--Chronic diseases of airways - Airways defense mechanisms (dogs)
P5DHL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
** P50HL-15389-07 0008 Pulmonary SCOR--Hypersensitivity pneumonitis - Milwaukee patient study--Hypersensitivity pneumonitis
P50HL-15389-07 0011 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits
P50HL-19170-02 0003 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanisms of bronchial reactivity to acute and chronic airway challenge (dog)
P5DHL-19170-02 0007 Harvard pulmonary SCOR--Chronic diseases of the airways - Therapy effect on airway obstruction in acute asthma (human)
RD1HL-19733-03 Absorption of antigen through inflamed lungs (rabbits)
R01HL-19806-03 Chemotactic control of airway phagocytes (human, rabbits)
R01HL-19819-D3 Mitogen induced interstitial pneumonitis (rabbits)
** R01HL-19873-03 Pulmonary responses to inhaled antigen (rabbits, guinea pigs)
R01HL-20783-D2 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)

HYPERSENSITIVITY, ANAPHYLAXIS

** R01HL-01803-23 0022 Arteriosclerosis, glomerulonephritis, rheumatic fever - Cardiac and pulmonary anaphylaxis induced by tobacco glycoprotein (rabbits)
P01HL-08682-15 0D19 Regulation of the cardiovascular system - Hepatic immunophysiology and host-defense in shock (rat, dog, human)
PD1HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
M P01HL-10342-13 The integrated function of respiration and circulation
** P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
** R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
P50HL-14153-07 0013 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary mechanics and mediators of allergic reactions (guinea pigs, human)
P50HL-14153-07 0014 Johns Hopkins Lung Center--Chronic diseases of airways - Mediator release in asthma (human)
P50HL-14187-07 0012 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
R01HL-15677-06 Autonomic nervous system function in bronchial asthma (human, guinea pig, rabbit)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-16411-04 0001 Blood systems in coagulation and vessel disease - Molecular studies of the role of complement in blood coagulation (human, rabbits)
** P01HL-16411-04 0004 Blood systems in coagulation and vessel disease - Platelets reactions in vascular injury (human, animals)
P01HL-16411-04 0005 Blood systems in coagulation and vessel disease - Chemical analysis of serum components associated with coagulation (human, animal)
M P01HL-17382-05 Chemical mediators of acute pulmonary disorders
P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
P01HL-17382-05 0003 Chemical mediators of acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
R01HL-19062-03 Pharmacologic control of mast cell phosphodiesterase (human, rats)
P01HL-19717-02 0037 Response of the lung to injury - Catecholamines, prostaglandins and nucleotides in pulmonary function (animals)
** R01HL-19795-03 Synthesis of anaphylatoxic and leucotactic peptides (human)
** R01HL-20220-03 Anaphylatoxins as inflammatory and chemotactic agents (guinea pig, rabbit, human)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
** R23HL-21089-02 Localization of mediators in dispersed lung cells (guinea pigs, human)
R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)

HYPERSENSITIVITY, ANAPHYLAXIS, SHWARTZMAN PHENOMENON

R01HL-14739-06 The role of leukocytes in thrombotic disease (human, dogs)
** P01HL-16411-04 0004 Blood systems in coagulation and vessel disease - Platelets reactions in vascular injury (human, animals)
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)

HYPERSENSITIVITY, ANTIALLERGY DRUGS

SEE ALSO HYPERSENSITIVITY DESENSITIZATION
SEE ALSO RESPIRATORY DRUGS, BRONCHODILATORS
** R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)

HYPERSENSITIVITY, ANTIALLERGY DRUGS, HISTAMINE ANTAGONISTS

R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
R01HL-04512-19 Ultrastructural studies of capillary permeability (rats, mice)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06664-17 0010 Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
P01HL-14388-07 0187 Regulation of the circulation in pathological states - Histamine and circulatory control
P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
R01HL-16240-05 The cardiac histamine receptor (rabbits, guinea pigs)
R01HL-16524-02 Selective inhibitors of prostaglandin biosynthesis (dogs)
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
R01HL-18002-03 Circulatory shock, trauma and RE-system function (rats)
P01HL-18576-03 0003 Thrombosis research program project - Biocompatible materials
R01HL-18936-02 Heart preservation and transplantation studies (rat)
** P50HL-19153-02 0002 SCOR--Pulmonary edemas--Etiology, pathogenesis - Lung fluid dynamics--Classical mediators and their inhibitors (sheep)
P50HL-19156-02 0005 Pulmonary SCOR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
R01HL-20719-02 Cold induced pulmonary hypertension (cattle)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
R01HL-22136-02 Histamine and cardiac adenyl cyclase
R01HL-23593-01 Mast cell granules--Structure and secretion (rats)

HYPERSENSITIVITY, ATOPY

SEE ALSO HYPERSENSITIVITY, ALLERGENS AIRBORNE
SEE ALSO HYPERSENSITIVITY, RESPIRATORY HYPERSENSITIVITY
SEE ALSO HYPERSENSITIVITY, SKIN SENSITIZING ANTIBODY
P50HL-14136-07 0009 Pulmonary SCOR--Airways obstructive diseases - Tuscon epidemiological study of airways obstructive disease (human)
** P50HL-14153-07 0011 Johns Hopkins Lung Center--Chronic diseases of airways - Allergy, airways reactivity and asthma in human ragweed allergy
P50HL-19156-02 0001 Pulmonary SCOR--Chronic diseases of airways - Irritability of airways induced by epithelial damage in healthy subjects (human)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)

HYPERSENSITIVITY, DELAYED HYPERSENSITIVITY

SEE ALSO HYPERSENSITIVITY, LYMPHOKINES
SEE ALSO HYPERSENSITIVITY, LYMPHOKINES, LEUKOTAXIC FACTOR
SEE ALSO HYPERSENSITIVITY, LYMPHOKINES, MIGRATION INHIBITORY FACTOR
SEE ALSO HYPERSENSITIVITY, SENSITIZING ANTIBODIES NON-HUMORAL
SEE ALSO HYPERSENSITIVITY, TRANSFER FACTOR (HYPERSENSITIVITY)
SEE ALSO IMMUNITY, CELLULAR IMMUNITY (GENERAL)
SEE ALSO IMMUNOPATHOLOGY, AUTOIMMUNE DISORDERS
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOIMMUNITY
R01HL-01623-24 Antigens related to graft rejection (rabbits, rats)
R01HL-01803-23 0018 Arteriosclerosis, glomerulonephritis, rheumatic fever - Fetal immunization in pathogenesis of glomerulonephritis in adult (rabbit)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
R01HL-08696-15 0004 Orthotopic heart transplantation - Transplantation immunology--Avian antibody studies (chickens, rats, rabbits)
P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Dirofilaria immitis in the dog
P50HL-14212-07 0013 Correlated studies of pulmonary fibrosis - Mechanism of beryllium pathogenicity in the lung (human, rabbit, guinea pig)
P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
P50HL-15092-07 0006 Immune and fibrotic response to occupational environments - Immunologic studies in silicosis (human, rabbits, hamsters, guinea pigs)
P50HL-15092-07 0008 Immune and fibrotic response to occupational environments - Animal models of asbestosis (hamsters)
P50HL-15092-07 0011 Immune and fibrotic response to occupational environments - Respiratory and immunologic responses in coffee plant workers
P01HL-15195-04 0004 Program project in biological materials - Biological evaluation and surface interaction studies (dogs)
P50HL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
P50HL-15389-07 0008 Pulmonary SCOR--Hypersensitivity pneumonitis - Milwaukee patient study--Hypersensitivity pneumonitis
P50HL-15389-07 0011 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits
P50HL-15389-07 0012 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Immunologic lung disease in guinea pigs
P50HL-15389-07 0013 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Pulmonary mycotoxicosis (rabbit, guinea pig)
P50HL-15389-07 0017 Pulmonary SCOR--Hypersensitivity pneumonitis - Immunology core (human)
P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
R01HL-16642-05 Biochemistry and pathophysiology of plasma kallikrein (human, animals)
M P01HL-16769-05 Pathobiologic and host defense reactions in the lung
** P01HL-16769-05 0003 Pathobiologic and host defense reactions in the lung - Pathobiologic mechanisms of delayed sensitivity reactions in the lung (animals)
** P01HL-16769-05 0010 Pathobiologic and host defense reactions in the lung - Bronchus associated lymphoid tissue and delayed hypersensitivity (rabbits)
R01HL-19732-03 Lymphokines in pulmonary granulomatous inflammation (mice)
R01HL-19741-03 Murine CRO--A model of chronic pulmonary inflammation (mice, rats)
R01HL-19873-03 Pulmonary responses to inhaled antigen (rabbits, guinea pigs)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)
** R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)

HYPERSENSITIVITY, IMMEDIATE HYPERSENSITIVITY

SEE ALSO HYPERSENSITIVITY, ANAPHYLAXIS
SEE ALSO HYPERSENSITIVITY, ATOPY
SEE ALSO HYPERSENSITIVITY, RESPIRATORY HYPERSENSITIVITY
SEE ALSO HYPERSENSITIVITY, SENSITIZING ANTIBODIES HUMORAL
SEE ALSO HYPERSENSITIVITY, SERUM SICKNESS
SEE ALSO IMMUNOLOGY, ANTIGEN-ANTIBODY REACTIONS, IMMUNE COMPLEXES
P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Dirofilaria immitis in the dog
P50HL-14153-07 0011 Johns Hopkins Lung Center--Chronic diseases of airways - Allergy, airways reactivity and asthma in human ragweed allergy
** P50HL-14153-07 0015 Johns Hopkins Lung Center--Chronic diseases of airways - Kinins and human lung
P50HL-15092-07 0011 Immune and fibrotic response to occupational environments - Respiratory and immunologic responses in coffee plant workers
P50HL-15092-07 0012 Immune and fibrotic response to occupational environments - Longitudinal evaluation of workers exposed to cotton dust
P50HL-15389-07 0010 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical study--Pulmonary lesions due to non-invasive aspergillosis
P50HL-15389-07 0011 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits
P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
P01HL-17382-05 0003 Chemical mediators of acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
R01HL-18526-03 Kinins and the human lung
P01HL-19717-02 0037 Response of the lung to injury - Catecholamines, prostaglandins and nucleotides in pulmonary function (animals)
** R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
R23HL-21089-02 Localization of mediators in dispersed lung cells (guinea pigs, human)
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)
** R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)

HYPERSENSITIVITY, LYMPHOKINES

M P01HL-06370-17 Cardiopulmonary and renal pathology research center
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
P50HL-19171-02 0007 Pulmonary SCOR--Lung injury by childhood infections - Immunologic studies in models of lower respiratory tract infection (rodents)
** R01HL-19711-03 Lymphokines in pulmonary granulomas (guinea pigs)
P01HL-19717-02 0016 Response of the lung to injury - The alveolar macrophage in elastase emphysema (guinea pigs, hamsters)
P01HL-19717-02 0019 Response of the lung to injury - Animal model of fibrosing alveolitis (hamsters, guinea pigs, rabbits)
** R01HL-19732-03 Lymphokines in pulmonary granulomatous inflammation (mice)
** R01HL-19819-03 Mitogen induced interstitial pneumonitis (rabbits)
** R01HL-20095-03 Role of lymphokines and monocytes in lung fibrosis (human, guinea pigs, rats)
** R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)

HYPERSENSITIVITY, LYMPHOKINES, LEUKOTAXIC FACTOR

P50HL-14217-08 0051 Specialized center of research in thrombosis - Microcirculation section (bat, hamster)
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
R01HL-19732-03 Lymphokines in pulmonary granulomatous inflammation (mice)
R01HL-19741-03 Murine CRO--A model of chronic pulmonary inflammation (mice, rats)
R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
** R01HL-19795-03 Synthesis of anaphylatoxic and leucotactic peptides (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-19806-03 Chemotactic control of airway phagocytes (human, rabbits)
R01HL-20002-03 Pulmonary complications of viral infections (children)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
R01HL-20220-03 Anaphylatoxins as inflammatory and chemotactic agents (guinea pig, rabbit, human)
** R01HL-22257-01 Leukokinesis enhancing factor and lung infections (human, rats)
** R23HL-22437-01 Leukotactic mediators in lung inflammatory reactions (rats, rabbits, human)

HYPERSENSITIVITY, LYMPHOKINES, LYMPHOCYTE TRANSFORMING FACTORS

P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man
P50HL-15389-07 0010 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical study--Pulmonary lesions due to non-invasive aspergillosis

HYPERSENSITIVITY, LYMPHOKINES, MACROPHAGE AGGREGATION FACTOR

** P01HL-16769-05 0003 Pathobiologic and host defense reactions in the lung - Pathobiologic mechanisms of delayed sensitivity reactions in the lung (animals)
** P01HL-16769-05 0011 Pathobiologic and host defense reactions in the lung - Core--Laboratory for biomedical preparation (rabbits)

HYPERSENSITIVITY, LYMPHOKINES, MIGRATION INHIBITORY FACTOR

R01HL-01623-24 Antigens related to graft rejection (rabbits, rats)
P50HL-15389-07 0010 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical study--Pulmonary lesions due to non-invasive aspergillosis
** P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung - Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
R01HL-19234-03 Streptococci and heart--Cell-mediated cross-reaction (mice)
R01HL-19732-03 Lymphokines in pulmonary granulomatous inflammation (mice)
R01HL-19873-03 Pulmonary responses to inhaled antigen (rabbits, guinea pigs)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
R01HL-20125-02 Cyclic nucleotides and alveolar macrophage activation (rabbits)
R01HL-21047-01 Studies of coxsackievirus-induced myocarditis in mice
R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)
R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)
R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)
R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)

HYPERSENSITIVITY, RESPIRATORY HYPERSENSITIVITY

SEE ALSO HYPERSENSITIVITY, ALLERGENS AIRBORNE
SEE ALSO RESPIRATORY DISORDERS, PNEUMONITIS ALLERGIC INTERSTITIAL
SEE ALSO RESPIRATORY DISORDERS, RESPIRATORY SYSTEM TOXINS

P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLD
P50HL-14136-07 0009 Pulmonary SCOR--Airways obstructive diseases - Tuscon epidemiological study of airways obstructive disease (human)
P50HL-14136-07 0016 Pulmonary SCOR--Airways obstructive diseases - Environmental factors in airways obstructive diseases (human)
P50HL-14136-07 9005 Pulmonary SCOR--Airways obstructive diseases - Clinical core
P50HL-14136-07 9006 Pulmonary SCOR--Airways obstructive diseases - Pediatric lung function core
P50HL-14153-07 0004 Johns Hopkins Lung Center--Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)
P50HL-14153-07 0018 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary function core
M P50HL-15092-07 Immune and fibrotic response to occupational environments
P50HL-15092-07 0005 Immune and fibrotic response to occupational environments - Respiratory and immunologic evaluation of toluene diisocyanate exposure (human)
P50HL-15092-07 0011 Immune and fibrotic response to occupational environments - Respiratory and immunologic responses in coffee plant workers
P50HL-15092-07 0012 Immune and fibrotic response to occupational environments - Longitudinal evaluation of workers exposed to cotton dust
** P50HL-15092-07 0014 Immune and fibrotic response to occupational environments - Clinical immunology core resource
M P50HL-15389-07 Pulmonary SCOR--Hypersensitivity pneumonitis
** P50HL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
** P50HL-15389-07 0008 Pulmonary SCOR--Hypersensitivity pneumonitis - Milwaukee patient study--Hypersensitivity pneumonitis
** P50HL-15389-07 0010 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical study--Pulmonary lesions due to non-invasive aspergillosis
P50HL-15389-07 0011 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits
P50HL-15389-07 0013 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Pulmonary mycotoxicosis (rabbit, guinea pig)
P50HL-15389-07 0014 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of pigeon antigens
P50HL-15389-07 0015 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of thermophilic Actinomycete antigens
P50HL-15389-07 0017 Pulmonary SCOR--Hypersensitivity pneumonitis - Immunology core (human)
P01HL-16769-05 0003 Pathobiologic and host defense reactions in the lung - Pathobiologic mechanisms of delayed sensitivity reactions in the lung (animals)
** R01HL-16920-02 Proteases in normal and immunologically injured lung (guinea pigs, rabbits)
M P01HL-17382-05 Chemical mediators of acute pulmonary disorders
** P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
** P01HL-17382-05 0003 Chemical mediators of acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
** P50HL-19156-02 0005 Pulmonary SCOR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
M P50HL-19170-02 Harvard pulmonary SCOR--Chronic diseases of the airways
** P50HL-19170-02 0003 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanisms of bronchial reactivity to acute and chronic airway challenge (dog)
P50HL-19170-02 0005 Harvard pulmonary SCOR--Chronic diseases of the airways - Pulmonary toxicology of plastics intermediates and pyrolysis products (animal)
** P50HL-19170-02 0006 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanism of overdistension (human, animal)
** P50HL-19170-02 0007 Harvard pulmonary SCOR--Chronic diseases of the airways - Therapy effect on airway obstruction in acute asthma (human)
** R01HL-19711-03 Lymphokines in pulmonary granulomas (guinea pigs)
** R01HL-19732-03 Lymphokines in pulmonary granulomatous inflammation (mice)
** R01HL-19733-03 Absorption of antigen through inflamed lungs (rabbits)
R01HL-19741-03 Murine CRO--A model of chronic pulmonary inflammation (mice, rats)
** R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)
R01HL-19760-01 Cellular immune responses of the lung (mice, guinea pigs)
** R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
R01HL-19795-03 Synthesis of anaphylatoxic and leucotactic peptides (human)
** R01HL-19806-03 Chemotactic control of airway phagocytes (human, rabbits)
R01HL-19819-03 Mitogen induced interstitial pneumonitis (rabbits)
R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
** R01HL-20095-03 Role of lymphokines and monocytes in lung fibrosis (human, guinea pigs, rats)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
** R01HL-20220-03 Anaphylatoxins as inflammatory and chemotactic agents (guinea pig, rabbit, human)
** R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
R01HL-22021-01 Asthma in families-- Behavior analysis of family interaction pattern
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)

HYPERSENSITIVITY, RESPIRATORY HYPERSENSITIVITY, ASTHMA

SEE ALSO RESPIRATORY DISORDERS, BRONCHOSPASM

P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
** P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
** P01HL-07896-15 0053 Environmental biomedical research program - Thermoregulation in asthmatics
R01HL-10009-13 Regional lung function in man
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
** P50HL-14136-07 0009 Pulmonary SCOR--Airways obstructive diseases - Tuscon epidemiological study of airways obstructive disease (human)
M P50HL-14153-07 Johns Hopkins Lung Center--Chronic diseases of airways
** P50HL-14153-07 0011 Johns Hopkins Lung Center--Chronic diseases of airways - Allergy, airways reactivity and asthma in human ragweed allergy
** P50HL-14153-07 0012 Johns Hopkins Lung Center--Chronic diseases of airways - Aspirin intolerance in reversible lung disease (human)
** P50HL-14153-07 0013 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary mechanics and mediators of allergic reactions (guinea pigs, human)
** P50HL-14153-07 0014 Johns Hopkins Lung Center--Chronic diseases of airways - Mediator release in asthma (human)
** P50HL-14153-07 0015 Johns Hopkins Lung Center--Chronic diseases of airways - Kinins and human lung
P50HL-14153-07 0016 Johns Hopkins Lung Center--Chronic diseases of airways - Airways defense mechanisms (dogs)
P50HL-15092-07 0005 Immune and fibrotic response to occupational environments - Respiratory and immunologic evaluation of toluene diisocyanate exposure (human)
P50HL-15092-07 0011 Immune and fibrotic response to occupational environments - Respiratory and immunologic responses in coffee plant workers
P01HL-15194-07 0024 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Airflow limitation in COLD (human)
** R01HL-15677-06 Autonomic nervous system function in bronchial asthma (human, guinea pig, rabbit)
R01HL-16524-02 Selective inhibitors of prostaglandin biosynthesis (dogs)
** P01HL-16878-05 0001 Control of ventilation in health and disease - Ability of asthmatics to detect added resistive and elastic loads
** R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
** P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
** R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
** R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18077-04 Smooth muscle cell organization and Ca20 concentration control (chickens)
** R01HL-18632-02 Epidemiologic study of chronic lung disease
R01HL-19062-03 Pharmacologic control of mast cell phosphodiesterase (human, rats)
R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
R01HL-19118-03 Measurement of airways mechanics (human, dog)
M P50HL-19156-02 Pulmonary SCOR--Chronic diseases of airways
** P50HL-19156-02 0001 Pulmonary SCOR--Chronic diseases of airways - Irritability of airways induced by epithelial damage in healthy subjects (human)
** P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
P50HL-19157-02 0011 Studies in cystic fibrosis and bronchiolitis - Pathogenesis of bronchiolitis (children)
P50HL-19170-02 0006 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanism of overdistension (human, animal)
P50HL-19170-02 0007 Harvard pulmonary SCOR--Chronic diseases of the airways - Therapy effect on airway obstruction in acute asthma (human)
P50HL-19171-02 0004 Pulmonary SCOR--Lung injury by childhood infections - Long-term effects of respiratory infections in early childhood
P01HL-19717-02 0009 Response of the lung to injury - Time-dependent mechanical properties of lung connective tissues (hamsters)
R01HL-20122-02 Operational mechanisms of airway receptors (dogs, pigs)
R01HL-20184-02 Desensitization of tracheal muscle to isoproterenol (rats, rabbits)
R01HL-20347-02 Bolus-response measurement of lung function (human)
R01HL-20675-02 Alveolar macrophage function in man
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R23HL-20968-02 Respiratory failure-Control and muscle dysfunction (human)
** R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
R01HL-21126-D2 Exercise-induced bronchospasm in children
R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
R23HL-21199-02 Sound transmission in lung (dog)
** R01HL-21318-02 Mechanisms of emotions' asthma triggering effect (human)
** P01HL-21584-02 D006 Respiratory mechanics in normal and abnormal states - Respiratory mechanics in health and disease (human, pigs)
** RD1HL-21829-01 Etiology of obstructive airway disease in children (also monkeys)
** R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
** R01HL-22021-01 Asthma in families-- Behavior analysis of family interaction pattern
** RD1HL-22026-01 Endogenous prostaglandins in asthma
** R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)
** R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
R23HL-22818-01 Biosynthesis of human respiratory mucous glycoprotein (also dog)
** R01HL-22924-D1 The airway mucosal barrier (guinea pigs)
** R23HL-22932-01 Effect of carbon dioxide on local gas exchange (dogs)
** RD1HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)
** ND1HR-62935-02 Histocompatibility antigens--Evolution of respiratory hypersensitivity (human)
** N01HR-72972-01 Self-management for asthmatic children
** N01HR-72973-01 Health education and attitudes of family toward asthmatic children
** N01HR-72974-01 Self-management systems for asthmatic children

HYPERSENSITIVITY, RESPIRATORY HYPERSENSITIVITY, HAY FEVER

** P50HL-14153-07 0D11 Johns Hopkins Lung Center--Chronic diseases of airways - Allergy, airways reactivity and asthma in human ragweed allergy

HYPERSENSITIVITY, SENSITIZATION PASSIVE

SEE ALSO HYPERSENSITIVITY, SKIN SENSITIZING ANTIBODY
R01HL-19819-03 Mitogen induced interstitial pneumonitis (rabbits)

HYPERSENSITIVITY, SENSITIZING ANTIBODIES HUMORAL

SEE ALSO HYPERSENSITIVITY, SKIN SENSITIZING ANTIBODY
P50HL-15389-07 0012 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Immunologic lung disease in guinea pigs
P01HL-18646-03 0004 Studies basic to heart transplantation - Presensitization--Detection, incidence and clinical significance
P01HL-18646-D3 0006 Studies basic to heart transplantation - Reduction or elimination of existing presensitization (human, animals)
R01HL-19819-D3 Mitogen induced interstitial pneumonitis (rabbits)

HYPERSENSITIVITY, SENSITIZING ANTIBODIES NON-HUMORAL

SEE ALSO HYPERSENSITIVITY, TRANSFER FACTOR (HYPERSENSITIVITY)
R01HL-19806-D3 Chemotactic control of airway phagocytes (human, rabbits)

HYPERSENSITIVITY, SERUM SICKNESS

PD1HL-16411-D4 DD04 Blood systems in coagulation and vessel disease - Platelets reactions in vascular injury (human, animals)

HYPERSENSITIVITY, SKIN SENSITIZING ANTIBODY

P5DHL-15389-07 0D11 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits

HYPERSENSITIVITY, TOXIC REACTIONS AND MECHANISMS IN HYPERSENSITIVITY

SEE ALSO HYPERSENSITIVITY, ANAPHYLAXIS
P50HL-14153-D7 DD12 Johns Hopkins Lung Center--Chronic diseases of airways - Aspirin intolerance in reversible lung disease (human)
P50HL-14153-07 DD14 Johns Hopkins Lung Center--Chronic diseases of airways - Mediator release in asthma (human)
P5DHL-15389-07 DDD9 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies--Pulmonary mycotoxicosis
P50HL-15389-07 0011 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits
P5DHL 15389-D7 DD12 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Immunologic lung disease in guinea pigs
** P5DHL-15389-07 D013 Pulmonary SCDR--Hypersensitivity pneumonitis - Animal model--Pulmonary mycotoxicosis (rabbit, guinea pig)

HYPERSENSITIVITY, TRANSFER FACTOR (HYPERSENSITIVITY)

P50HL-15389-D7 0D11 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits
** P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung - Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
RD1HL-19873-03 Pulmonary responses to inhaled antigen (rabbits, guinea pigs)

HYPERSENSITIVITY DESENSITIZATION

SEE ALSO IMMUNITY, IMMUNOSUPPRESSION
R01HL-19423-03 Catecholamine action on the heart (cats, rats)
R01HL-19711-03 Lymphokines in pulmonary granulomas (guinea pigs)
R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
RD1HL-21565-D2 Pathogenesis of inflammatory lung injury (rats, rabbits)
** R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)

HYPERSENSITIVITY PNEUMONITIS

SEE RESPIRATDRY DISDRDERS, PNEUMDNITIS ALLERGIC INTERSTITIAL

HYPERSENSITIVITY TESTS

SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, HISTDCDMPATIBILITY TYPING
P50HL-15389-07 D0D8 Pulmonary SCOR--Hypersensitivity pneumonitis - Milwaukee patient study--Hypersensitivity pneumonitis
P5DHL-15389-07 0017 Pulmonary SCOR--Hypersensitivity pneumonitis - Immunology core (human)

HYPERSENSITIVITY TESTS SKIN

SEE ALSD HYPERSENSITIVITY, ANAPHYLAXIS, SHWARTZMAN PHENOMENON
SEE ALSD HYPERSENSITIVITY, SKIN SENSITIZING ANTIBODY
P50HL-18828-03 00D6 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)

HYPERSPLENISM

SEE BLOOD AND RE DISORDERS, SPLENIC DISORDERS, SPLENOMEGALY

HYPERTENSIN

SEE PEPTIDES, VASOACTIVE PEPTIDES, ANGIOTENSIN

HYPERTENSINOGEN

SEE PEPTIDES, VASOACTIVE PEPTIDES, ANGIOTENSINOGEN

HYPERTENSION

SEE ADRENAL GLANDS DISORDERS, ADRENAL HYPERTENSION
SEE CARDIOVASCULAR DISDRDERS, HYPERTENSION (SYSTEMIC)
SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), NEUROGENIC HYPERTENSION
SEE KIDNEY-CIRCULATORY DISORDERS, RENAL HYPERTENSION
SEE KIDNEY-CIRCULATORY DISORDERS, RENOPRIVAL HYPERTENSIDN
SEE LIVER CIRCULATORY DISORDERS, PORTAL HYPERTENSION
SEE PREGNANCY TOXEMIAS AND HYPERTENSIDN
SEE RESPIRATORY CIRCULATORY DISDRDERS, PULMONARY HYPERTENSION

HYPERTHERMIA

SEE TEMPERATURE (BODY), FEVER

HYPERTHERMIA INDUCED

SEE TEMPERATURE (BODY), HYPERTHERMIA INDUCED

HYPERTHYROIDISM

SEE THYROID GLAND DISDRDERS, HYPERTHYROIDISM

HYPERTRICHINOSIS

SEE DISEASES, SIGNS-SYMPTDMS, HIRSUTISM

HYPERTROPHIC MYOCARDIOPATHY

SEE HEART DISDRDERS, MYDCARDIAL DISORDERS, HYPERTRDPHIC MYDCARDIOPATHY

HYPERTROPHY

SEE GROWTH ABNORMAL, HYPERTROPHY

HYPERURICEMIA

SEE PURINES-PYRIMIDINES METABDLISM ERRORS, HYPERURICEMIA

HYPERURICEMIA LOWERING DRUGS

SEE PURINES-PYRIMIDINES METABDLISM ERRDRS, GOUT DRUGS

HYPERVENTILATION ACTIVE

SEE RESPIRATDRY FUNCTION, HYPERPNEA

HYPERVENTILATION PASSIVE

SEE RESPIRATORY ASSIST AND DXYGEN ADMINISTRATION, HYPERVENTILATION PASSIVE

HYPERVISCOSITY SYNDROME

SEE BLOOD PROTEINS DISDRDERS, HYPERVISCDSITY SYNDROME

HYPERVOLEMIA

SEE CARDIOVASCULAR DISORDERS, HYPERVOLEMIA

HYPNOSIS

SEE PSYCHDLDGY, SUGGESTIDN, HYPNOSIS

HYPNOTICS AND SEDATIVES

SEE PSYCHOPHARMACOLOGICAL AGENTS, HYPNDTICS AND SEDATIVES

HYPOALDOSTERONISM

SEE ADRENAL GLANDS DISORDERS, HYPOALDDSTERDNISM

HYPOBETALIPOPROTEINEMIA

SEE METABOLIC DISORDERS INBDRN, HYPOLIPOPROTEINEMIAS FAMILIAL, ABETALIPDPROTEINEMIA

HYPOCAPNIA

SEE RESPIRATORY GAS LEVELS, HYPOCAPNIA

HYPOCHOLESTEREMIA

SEE LIPIDS BLOOD, HYPOCHOLESTEREMIA

HYPOCHROMIC MICROCYTIC ANEMIA

SEE BLOOD AND RE DISORDERS, ANEMIA HYPDCHROMIC MICROCYTIC

HYPOCHROMISM (CHEMISTRY)

SEE DPTICS, CHROMOPHDRE*

HYPOCUPREMIA

SEE METAL DISDRDERS AND IMBALANCES, HYPOCUPREMIA

HYPOGLYCEMIA

SEE CARBDHYDRATE BALANCE, HYPOGLYCEMIA

HYPOGLYCEMIC AGENTS

SEE CARBDHYDRATE BALANCE, HYPOGLYCEMIC AGENTS

HYPOGONADISM

SEE REPRDDUCTIVE AND SEX DEVELOPMENT DISDRDERS, HYPOGONADISM

HYPOIMMUNITY

SEE IMMUNITY, IMMUNOLDGICAL UNRESPONSIVENESS

HYPOKALEMIA

SEE BODY FLUID BALANCE, IDNIC, HYPOKALEMIA

HYPOLIPOPROTEINEMIA

SEE LIPOPROTEINS BLOOD, HYPOLIPOPROTEINEMIA

HYPOMAGNESEMIA

SEE METAL DISORDERS AND IMBALANCES, MAGNESIUM DEFICIENCY

HYPONATREMIA

SEE BDDY FLUID BALANCE, IONIC, HYPDNATREMIA

HYPOPHOSPHATASIA

SEE METABOLIC DISORDERS INBORN, HYPOPHOSPHATASIA

HYPOPHRENIC (TROPHOTROPIC) STATE

SEE PSYCHIC ACTIVITY LEVEL, TRDPHDTROPIC STATE

HYPOPHYSECTOMY

SEE PITUITARY REMOVAL

HYPOPHYSIS

SEE PITUITARY GLAND

HYPOPITUITARY DWARFISM

SEE SKELETAL DISORDERS, BONE DEVELDPMENT, DWARFISM, PITUITARY

HYPOPLASTIC ANEMIA CONGENITAL

SEE BLDDO AND RE DISORDERS, ANEMIA APLASTIC CONGENITAL

HYPOPROCONVERTINEMIA

SEE BLOOD COAGULATION DISORDERS, FACTDR VII DEFICIENCY

HYPOPROTEINEMIA

SEE BLDOD PROTEINS DISDRDERS, HYPOPROTEINEMIA

HYPOPROTHROMBINEMIAS

SEE BLODD COAGULATION DISORDERS, HYPDPRDTHROMBINEMIAS

HYPORENINEMIC HYPOALDOSTERONISM

SEE ADRENAL GLANDS DISORDERS, HYPOALDOSTERDNISM, HYPDRENINEMIC

HYPOSENSITIZATION FOR HYPERSENSITIVITY

SEE HYPERSENSITIVITY DESENSITIZATION

HYPOTENSION

SEE CARDIOVASCULAR DISDRDERS, HYPOTENSION

HYPOTENSION, POSTURAL (ORTHOSTATIC)

SEE CARDIOVASCULAR DISORDERS, HYPDTENSION PDSTURAL

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Onented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

HYPOTENSIVE PEPTIDES
SEE PEPTIOES, VASOACTIVE PEPTIOES, HYPOTENSIVE PEPTIDES

HYPOTHALAMO-HYPOPHYSEAL SYSTEM (HORMONES)
SEE PITUITARY-OIENCEPHALON (HORMONES)

HYPOTHALAMUS
SEE BRAIN, HYPOTHALAMUS

HYPOTHERMIA
SEE TEMPERATURE (BODY), HYPOTHERMIA

HYPOTHERMIA, ANESTHETIC
SEE SENSORY OEPRESSION, ANESTHESIA, REFRIGERATION

HYPOTHERMIA INDUCED
SEE TEMPERATURE (BOOY), HYPOTHERMIA INDUCEO

HYPOTHYROIDISM
SEE THYROIO GLAND OISOROERS, HYPOTHYROIDISM

HYPOVENTILATION, RESPIRATORY (GENERAL)
SEE RESPIRATORY FUNCTION, HYPOVENTILATION (GENERAL)

HYPOVENTILATION FROM RESPIRATORY CENTER DYSFUNCTION
SEE RESPIRATORY FUNCTION, HYPOVENTILATION, RESPIRATORY CENTER OYSFUNCTION

HYPOVENTILATION NOCTURNAL
SEE RESPIRATORY FUNCTION, HYPOVENTILATION, RESPIRATORY CENTER OYSFUNCTION

HYPOVITAMINOSIS A
SEE NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS A

HYPOVITAMINOSIS C
SEE NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS C

HYPOVITAMINOSIS E
SEE NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS E

HYPOVITAMINOSIS K
SEE NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS K

HYPOVOLEMIA
SEE CAROIOVASCULAR OISOROERS, HYPOVOLEMIA

HYPOXANTHINE
SEE PURINES, HYPOXANTHINE

HYPOXANTHINE PHOSPHORIBOSYLTRANSFERASE
SEE GLYCOSYLTRANSFERASES, IMP:PYROPHOSPHATE PHOSPHORIBOSYLTRANSFERASE

HYPOXIA
SEE RESPIRATORY GAS LEVELS, HYPOXIA

HYPOXIA, RESPIRATORY
SEE RESPIRATORY GAS LEVELS, HYPOXIA, RESPIRATORY

HYPOXIA FETAL
SEE RESPIRATORY GAS LEVELS, HYPOXIA FETAL

HYPOXIA NEONATORUM
SEE RESPIRATORY GAS LEVELS, HYPDXIA NEONATORUM

HYSTERECTOMY
SEE REPROOUCTIVE SYSTEM SURGERY FEMALE, HYSTERECTOMY

I ANTIGENS (BLOOD GROUP)
SEE BLOOD GROUPS ANTIGENS, II ANTIGENS

I-CELL DISEASE
SEE METABOLIC DISORDERS INBORN, MUCOPOLYSACCHARIDOSIS, I-CELL DISEASE

IDENTIFICATION OF VIRUSES
SEE MICROBIAL IOENTIFICATION AND CLASSIFICATION, VIRAL TYPING AND IOENTIFICATION

IDIOPATHIC HIRSUTISM
SEE DISEASES, SIGNS-SYMPTDMS, HIRSUTISM

L-IDURONIC ACID
SEE SUGAR ACIDS, HEXURONIC ACIOS, L-IOURONIC ACID

IGA SECRETORY
SEE IMMUNOLOGY, SECRETORY (ANTIBOOY) (FACTOR) SYSTEM

II ANTIGENS
SEE BLDOD GROUPS ANTIGENS, II ANTIGENS

ILEAL BYPASS
SEE GASTROINTESTINAL SURGERY, ILEAL BYPASS-ILEECTOMY

ILEECTOMY
SEE GASTROINTESTINAL SURGERY, ILEAL BYPASS-ILEECTOMY

ILEUM
SEE GASTROINTESTINAL SYSTEM, INTESTINES, SMALL INTESTINE, ILEUM

ILIAC ARTERY
SEE CAROIOVASCULAR SYSTEM, ARTERIES, ILIAC ARTERY

IMAGE AND WAVESHAPE PROCESSING ANALYSIS AND DISPLAY
SEE OPTICS, IMAGE PROCESSING ANALYSIS AND DISPLAY*

IMAGE ENHANCEMENT
SEE OPTICS, IMAGE ENHANCEMENT*

IMAGING-VISUALIZATION (GENERAL)
SEE OPTICS, IMAGING-VISUALIZATION (GENERAL)*

IMIDATES
** P60HL-20985-01 0006 Northern California sickle cell center - Antisickling properties of imidoesters (human, rats)
** R23HL-21129-02 The antisickling effects of imidoesters

IMIDAZOLEDIONES, HYDANTOINS, DANTROLENE
P01HL-11351-12 0011 Cellular and molecular mechanisms of myocardial function - Comparative contractile tissue studies (animals)
P01HL-12738-10 0109 Physiologic pharmacology and its clinical applications - Effects of calcium blockers on skeletal and cardiac muscle (cats)

IMIDAZOLEDIONES, HYDANTOINS, DIPHENYLHYDANTOIN
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
P01HL-12738-10 0107 Physiologic pharmacology and its clinical applications - Blood superfused cardiac fibers (dogs)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
P01HL-14388-07 0234 Regulation of the circulation in pathological states - Effects of antiarrhythmic drugs on the autonomic system (dogs)
R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
P50HL-17648-04 0014 Study of ischemic heart disease - Antidysrhythmic drugs and mammalian cardiac Purkinje fibers (sheep, dog)
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
R01HL-22862-01 CNS-mediated effects of antiarrhythmic drugs (dogs)

IMIDAZOLES
SEE ALSO CYCLIC AMINO ACIOS, HISTIDINE
SEE ALSO PURINES
R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)

IMIDAZOLES, CATAPRES
R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
R01HL-10951-11 Neural control of the heart (dogs, rats)
P01HL-12738-10 0042 Physiologic pharmacology and its clinical applications - Centrogenic cardiac arrhythmias (cats)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
P50HL-18323-04 0043 SCOR hypertension center - Pharmacology--Renin-aldosterone mechanisms in essential hypertension (human)
R01HL-20194-01 Brain catecholamines in control of blood pressure (rats)
R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)

IMIDAZOLES, HISTAMINE
P01HL-03174-23 0009 Mechanisms of acute vascular reaction to injury - Mast cell lipid interaction (human, rats)
R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
PD1HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
P01HL-06285-18 0189 Cardiovascular-respiratory physiology and biochemistry - Mucociliary clearance (cats, dogs)
P01HL-07896-15 0043 Environmental biomedical research program - Effect of hyperbaric oxygen on the lung (human, rabbits)
P01HL-08805-15 D048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo--Capillary membrane in normal pulmonary hypertensive lung
R01HL-08977-14 Quantitation of flow and solute flux in microvessels (cats, rats)
P01HL-10342-13 0024 The integrated function of respiration and circulation - Cytochrome P450 and physiological response to hypoxia (rats)
P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
P01HL-12738-10 0109 Physiologic pharmacology and its clinical applications - Effects of calcium blockers on skeletal and cardiac muscle (cats)
R01HL-13315-08 Oisposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
R01HL-13323-08 Intrarenal pressure and renal function (human, dogs)
P50HL-14153-07 0013 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary mechanics and mediators of allergic reactions (guinea pigs, human)
P50HL-14153-07 0016 Johns Hopkins Lung Center--Chronic diseases of airways - Airways defense mechanisms (dogs)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
** P01HL-14388-07 0187 Regulation of the circulation in pathological states - Histamine and circulatory control
** P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
** P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
R01HL-15677-06 Autonomic nervous system function in bronchial asthma (human, guinea pig, rabbit)
P01HL-16117-05 0008 Ion movements and membranes in cardiovascular control - Arterial smooth muscle calcium fluxes and contractility (rabbits)
** R01HL-16240-05 The cardiac histamine receptor (rabbits, guinea pigs)
R01HL-16463-05 Localization of airways obstruction and responses
R01HL-17355-04. Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
M P01HL-17382-05 Chemical mediators of acute pulmonary disorders
P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
P01HL-17382-05 0003 Chemical mediators of acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
R01HL-17711-05 Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs)
P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
R01HL-17768-04 Oevelopment of collateral ventilation (dogs, fish, horses)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18272-03 Heart adenyl cyclase complex (beef heart)
R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
R01HL-18936-02 Heart preservation and transplantation studies (rat)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
P50HL-19153-02 0002 SCOR--Pulmonary edemas--Eitology, pathogenesis - Lung fluid dynamics--Classical mediators and their inhibitors (sheep)
P50HL-19156-02 0001 Pulmonary SCOR--Chronic diseases of airways - Irritability of airways induced by epithelial damage in healthy subjects (human)
P50HL-19156-02 0005 Pulmonary SCDR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
P50HL-19170-02 0003 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanisms of bronchial reactivity to acute and chronic airway challenge (dog)
R01HL-19370-D3 Coronary capillary exchange--The effects of ischemia (dogs, sheep)
R01HL-19455-D3 Role of endothelial cells in vascular permeability (tissue culture)
P01HL-19717-02 0037 Response of the lung to injury - Catecholamines, prostaglandins and nucleotides in pulmonary function (animals)
** R01HL-19830-D2 Shear to aortic histamine synthesis and permeability (dogs)
** R01HL-20460-D3 Aortic histamine synthesis in diabetes (rat)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-20581-01 0001 Vascular neuroeffector mechanisms in health and disease - Vascular neuroeffector mechanism (rabbits)
R01HL-20783-02 Airway reactivity-B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-20793-02 Phospholipids and cardiac receptor function
P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)
R23HL-21539-02 Mechanical properties of isolated small bronchioles (rabbits)
P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)
** R01HL-22136-02 Histamine and cardiac adenyl cyclase
R01HL-22177-02 Mechanisms of control of pulmonary smooth muscle (dogs)
R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
R01HL-22435-02 Pulmonary alveolar-capillary permeability characteristic (dogs)
R01HL-22561-01 Hormonal control of mesenteric circulation (cats)
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
R01HL-22924-01 The airway mucosal barrier (guinea pigs)

IMIDAZOLES, HISTAMINE LIBERATION

R01HL-02953-17 Autonomic and cardiovascular pharmacology (rats, rabbits, dogs, guinea pigs)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P50HL-14153-07 0012 Johns Hopkins Lung Center--Chronic diseases of airways - Aspirin intolerance in reversible lung disease (human)
** P50HL-14153-07 0014 Johns Hopkins Lung Center--Chronic diseases of airways - Mediator release in asthma (human)
P50HL-14153-07 0015 Johns Hopkins Lung Center--Chronic diseases of airways - Kinins and human lung
P50HL-15092-07 0005 Immune and fibrotic response to occupational environments - Respiratory and immunologic evaluation of toluene diisocyanate exposure (human)
R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
R01HL-18526-03 Kinins and the human lung
R01HL-19062-03 Pharmacologic control of mast cell phosphodiesterase (human, rats)
** P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
** R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)
** R01HL-23593-01 Mast cell granules--Structure and secretion (rats)

IMIDAZOLES, LEVAMISOLE

P60HL-16008-06 0019 Wayne State University comprehensive sickle cell center - Cell mediated immunity in sickle cell anemia (human)
R01HL-21120-02 Membrane dynamics in alveolar macrophages (rabbits)

IMIDAZOLES, PHENTOLAMINE

P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
P01HL-12738-10 0134 Physiologic pharmacology and its clinical applications - Adenylate cyclase and cAMP phosphodiesterase in cardiac development (dogs)
P01HL-14388-07 0151 Regulation of the circulation in pathological states - Catecholamine release in potassium ion-free contractures in the caudal artery
P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)

IMIDAZOLES, TOLAZOLINE

R01HL-20087-02 Developmental processes in pulmonary hypertension (rats)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs

7-IMIDAZO(4,5D)PYRIMIDINE

SEE PURINES

8,9C-IMINOETHANOPHENANTHRO(4,5BCD)FURANS

SEE ALKALOIDS, MORPHINES

IMINOUREA

SEE GUANIDINES

IMIPRAMINE

SEE AZEPINES, IMIPRAMINE

IMMATURE ANIMAL FORMS

SEE AGE (ANIMAL), IMMATURE

IMMEDIATE HYPERSENSITIVITY

SEE HYPERSENSITIVITY, IMMEDIATE HYPERSENSITIVITY

IMMOBILIZATION OF ENZYMES

SEE ENZYME IMMOBILIZATION

IMMUNE ADHERENCE

SEE IMMUNOLOGY, IMMUNE ADHERENCE

IMMUNE ADHERENCE REACTION

SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNE ADHERENCE REACTION

IMMUNE COMPLEX AUTOIMMUNE DISEASES

SEE IMMUNOPATHOLOGY, AUTOIMMUNE DISORDERS

IMMUNE COMPLEX DISEASES

SEE IMMUNOPATHOLOGY, IMMUNE COMPLEX DISEASES (SEE ALSO SPECIFICS)

IMMUNE COMPLEXES

SEE IMMUNOLOGY, ANTIGEN-ANTIBODY REACTIONS, IMMUNE COMPLEXES

IMMUNE DISORDERS

SEE IMMUNOPATHOLOGY (GENERAL)

IMMUNE ELECTRON MICROSCOPY

SEE OPTICS, MICROSCOPY, IMMUNE ELECTRON*

IMMUNE INCLUSION DISEASES

SEE IMMUNOPATHOLOGY, IMMUNE COMPLEX DISEASES (SEE ALSO SPECIFICS)

IMMUNE SERA

SEE IMMUNOLOGY, ANTIBODIES, IMMUNE SERA

IMMUNE TOLERANCE

SEE IMMUNITY, IMMUNOLOGICAL UNRESPONSIVENESS

IMMUNITY (AND NATURAL RESISTANCE) (GENERAL)

SEE ALSO IMMUNOLOGY, ANTIBODIES, IMMUNE SERA
SEE ALSO IMMUNOLOGY, ANTIBODY FORMATION
SEE ALSO IMMUNOLOGY, ANTIGEN-ANTIBODY REACTIONS
R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)
** R01HL-18997-02 Ischemic therapy in experimental hypersplenism (rats, dogs)
** R01HL-20086-02 Circulatory control of splenic function (rats)
** R01HL-20675-02 Alveolar macrophage function in man
R01HL-22582-01 Pulmonary and circulatory alterations induced by IGE

IMMUNITY, AUTOIMMUNITY

SEE IMMUNOPATHOLOGY, AUTOIMMUNE DISORDERS

IMMUNITY, BACTERICIDAL DEFENSES (GENERAL)

SEE ALSO IMMUNOLOGY, ACUTE PHASE PROTEINS
SEE ALSO IMMUNOLOGY, ANTIBODIES, OPSONINS
SEE ALSO IMMUNOLOGY, ANTIBODIES BACTERIAL
SEE ALSO IMMUNOLOGY, ANTITOXINS
SEE ALSO IMMUNOLOGY, PROPERDIN
SEE ALSO VACCINES, BACTERIAL (GENERAL)
** R01HL-01803-23 0018 Arteriosclerosis, glomerulonephritis, rheumatic fever - Fetal immunization in pathogenesis of glomerulonephritis in adult (rabbit)
R01HL-01803-23 0019 Arteriosclerosis, glomerulonephritis, rheumatic fever - Pathogenesis of rheumatic heart disease (rabbit)
M P01HL-06314-17 Immunologic mechanisms in cardiovascular disease
** P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
** P01HL-08682-15 0019 Regulation of the cardiovascular system - Hepatic immunophysiology and host-defense in shock (rat, dog, human)
R01HL-13824-06 Defense mechanisms in pathogenesis of emphysema (human, dogs)
** R01HL-13885-08 0006 Cystic fibrosis and pulmonary disease Cell mediated immunity and Pseudomonas infections in cystic fibrosis (human)
** R01HL-13885-08 0007 Cystic fibrosis and pulmonary disease Alveolar macrophage defense mechanism (human, rabbits)
R01HL-13885-08 0008 Cystic fibrosis and pulmonary disease Pseudomonas specific activation of alveolar macrophages (human, rabbits)
** P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
** P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
** P50HL-14218-07 0005 Pulmonary SCOR-Newborn lung center - Prevention of infection in infants with respiratory distress (human)
** P50HL-15061-07 0007 Response of lung to injury - Human factors for phagocytosis in normal and diseased lungs
** P50HL-15061-07 0009 Response of lung to injury Alveolar macrophages (human, rabbits)
P60HL-15160-07 0014 Center for sickle cell disease - Replacement therapy of opsonin deficiency in sickle cell anemia (children)
** P60HL-15169-05 0009 Support for center for sickle cell disease - Infections in sickle cell anemia (human)
P01HL-15832-06 0009 Chemical-structural predispositions to lung injury - Immunology--Enzyme degradation products of human lung elastin and microfibril
** P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
** P60HL-15999-05 0020 Miami comprehensive sickle cell center - Deficiency in complement-dependent humoral immunity--Sickle cell disease (human)
** P60HL-16005-05 0020 Comprehensive sickle cell center - Studies of the immunologic defect in sickle cell anemia (human)
P60HL-16008-06 0019 Wayne State University comprehensive sickle cell center - Cell mediated immunity in sickle cell anemia (human)
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
** P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung - Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
P60HL-17265-04 0009 Community blood resource center support - Research--Developing granulocyte transfusion therapy (human, rabbit)
P50HL-19157-02 0003 Studies in cystic fibrosis and bronchiolitis - Nasal mucosal function in patients with cystic fibrosis
P50HL-19157-02 0008 Studies in cystic fibrosis and bronchiolitis - Serum proteins in cystic fibrosis (human)
P50HL-19171-02 0001 Pulmonary SCOR--Lung injury by childhood infections - Longitudinal study--Respiratory infections and lung growth in normal children
P50HL-19171-02 0003 Pulmonary SCOR--Lung injury by childhood infections - Natural history, host defense defects--Children with chronic pulmonary disease
** P50HL-19171-02 0007 Pulmonary SCOR--Lung injury by childhood infections - Immunologic studies in models of lower respiratory tract infection (rodents)
P50HL-19171-02 0009 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Scanning electron microscopy, freeze-fracture methods
P50HL-19171-02 0012 Pulmonary SCOR--Lung injury by childhood infections - Laboratory support core
R23HL-19584-01 Alveolar macrophage responses to toxic particle exposure (guinea pigs, human)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
R01HL-19741-03 Murine CRO--A model of chronic pulmonary inflammation (mice, rats)
** R01HL-19774-03 Pathogenesis of chronic lung disease (rats, mice, bacteria)
R01HL-19818-02 Endocarditis on prosthetic heart valves (rabbits, human)
R01HL-20002-03 Pulmonary complications of viral infections (children)
** R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
R01HL-20086-02 Circulatory control of splenic function (rats)
** R01HL-20314-02 Host defense against S pneumoniae in sickle cell disease (human)
** R01HL-20352-02 Defenses of lung cells against oxygen toxicity (human, animals)
R01HL-20675-02 Alveolar macrophage function in man
P60HL-20985-01 0002 Northern California sickle cell center - Immunization with polyvalent pneumococcal polysaccharide vaccine (human)
R23HL-21997-01 Pulmonary immunopathology in the compromised host (guinea pigs)
R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)
P60HL-23282-01 0002 Comprehensive hospital/community sickle cell center - Clinical evaluation of alternate pathaway of compliment activation

IMMUNITY, CELLULAR IMMUNITY (GENERAL)

SEE ALSO BLOOD CELL DEPLETION THERAPY, T LYMPHOCYTE DEPLETION
SEE ALSO BLOOD CELLS, T LYMPHOCYTES
SEE ALSO HYPERSENSITIVITY, DELAYED HYPERSENSITIVITY
SEE ALSO HYPERSENSITIVITY, LYMPHOKINES
SEE ALSO IMMUNOLOGY, IMMUNOREGULATORY ALPHA GLOBULIN
SEE ALSO IMMUNOPATHOLOGY, AUTOIMMUNE DISORDERS
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOIMMUNITY

R01HL-01623-24 Antigens related to graft rejection (rabbits, rats)
R01HL-01661-27 Hemostatic mechanisms (human)
R01HL-01803-23 0001 Arteriosclerosis, glomerulonephritis, rheumatic fever - Post-streptococcal glomerulonephritis (rabbit)
R01HL-03180-21 Relation of lymphatics to cardiopulmonary function (dogs)
R01HL-03919-20 The cell suface of streptococci (rats, human)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changes in lymphocytes (human, mice)
P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man
P01HL-06314-17 0061 Immunologic mechanisms in cardiovascular disease - Role of viruses in cardiovascular and renal disease (human, mice)
P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
** P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
** P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease - Mitogenic and antigenic activation of lymphocyte sub-populations
** P01HL-06370-17 0001 Cardiopulmonary and renal pathology research center - The humoral and cellular mechanisms of allograft rejection (monkeys)
R01HL-08696-15 0004 Orthotopic heart transplantation - Transplantation immunology--Avian antibody studies (chickens, rats, rabbits)
R01HL-08696-15 0010 Orthotopic heart transplantation - Transplantation immunology--Total lymphoid irradiation (dogs, primates)
P01HL-09011-15 0013 A research and resource program in blood - A quantitative study of immunological enhancement (mice)
** P01HL-13108-09 0011 Clinical heart transplantation - Humoral and cellular kinetics of allograft rejection (human)
P01HL-13108-09 0013 Clinical heart transplantation - Cardiomyopathic lymphocyte responsiveness to cultured endothelium
R01HL-13885-08 0006 Cystic fibrosis and pulmonary disease - Cell mediated immunity and Pseudomonas infections in cystic fibrosis (human)
R01HL-13987-04 Transplantation of the lung (dogs)
P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLD
P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
P50HL-14212-07 0013 Correlated studies of pulmonary fibrosis - Mechanism of beryllium pathogenicity in the lung (human, rabbit, guinea pig)
P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
R01HL-14799-07 Cardiac heterotransplantation--Immunologic modification (mice, rat)
P50HL-15061-07 0010 Response of lung to injury - An animal model system for the study of bronchiolitis and its sequellae (dogs)
M P50HL-15092-07 Immune and fibrotic response to occupational environments
** P50HL-15092-07 0006 Immune and fibrotic response to occupational environments - Immunologic studies in silicosis (human, rabbits, hamsters, guinea pigs)
** P50HL-15092-07 0007 Immune and fibrotic response to occupational environments - Asbestosis--Cellular immunity, structure and mineral localization (human)
P50HL-15092-07 0008 Immune and fibrotic response to occupational environments - Animal models of asbestosis (hamsters)
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
P50HL-15389-07 0011 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits
P50HL-15389-07 0013 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Pulmonary mycotoxicosis (rabbit, guinea pig)
P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
** P60HL-16008-06 0019 Wayne State University comprehensive sickle cell center - Cell mediated immunity in sickle cell anemia (human)
R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
M P01HL-16748-05 Cellular and immunological basis of pulmonary diseases
P01HL-16748-05 0001 Cellular and immunological basis of pulmonary diseases - Mechanisms of alveolar macrophage function and dysfunction (human, rabbits)
** P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
** P01HL-16748-05 0006 Cellular and immunological basis of pulmonary diseases - Sarcoidosis--Studies with bronchial lavage (human)
** R01HL-16757-04 'Autoimmune' thrombocytopenia (monkey)
P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung - Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
P01HL-16769-05 0010 Pathobiologic and host defense reactions in the lung - Bronchus associated lymphoid tissue and delayed hypersensitivity (rabbits)
P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
P60HL-17269-04 0035 National heart and blood vessel research and demonstration center - Blood resources--Research program in viral hepatitis (human)
P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
P01HL-18646-03 0002 Studies basic to heart transplantation - Detection of rejection (dogs)
P01HL-18646-03 0003 Studies basic to heart transplantation - Host responses to xenografts (rodents, rabbits)
P01HL-18646-03 0004 Studies basic to heart transplantation - Presensitization--Detection, incidence and clinical significance
P01HL-18646-03 0006 Studies basic to heart transplantation - Reduction or elimination of existing presensitization (human, animals)
** P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
R01HL-18936-02 Heart preservation and transplantation studies (rat)
R01HL-19018-03 Etiologic factors in cryptogenic fibrosing alveolitis (human)
P50HL-19171-02 0007 Pulmonary SCOR--Lung injury by childhood infections - Immunologic studies in models of lower respiratory tract infection (rodents)
** R01HL-19234-03 Streptococci and heart--Cell-mediated cross-reaction (mice)
** R01HL-19429-03 Phagocytosis--Ingestion in alveiolar macrophages (rabbits)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)
R01HL-19711-03 Lymphokines in pulmonary granulomas (guinea pigs)
M P01HL-19717-02 Response of the lung to injury
** P01HL-19717-02 0016 Response of the lung to injury - The alveolar macrophage in elastase emphysema (guinea pigs, hamsters)
P01HL-19717-02 0019 Response of the lung to injury - Animal model of fibrosing alveolitis (hamsters, guinea pigs, rabbits)
** P01HL-19717-02 0041 Response of the lung to injury - Cellular immunity in interstitial lung disease (human)
R01HL-19741-03 Murine CRD--A model of chronic pulmonary inflammation (mice, rats)
** R01HL-19760-01 Cellular immune responses of the lung (mice, guinea pigs)
R01HL-19774-03 Pathogenesis of chronic lung disease (rats, mice, bacteria)
R01HL-19819-03 Mitogen induced interstitial pneumonitis (rabbits)
R01HL-19873-03 Pulmonary responses to inhaled antigen (rabbits, guinea pigs)
** R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
R01HL-20125-02 Cyclic nucleotides and alveolar macrophage activation (rabbits)
R01HL-20301-02 Genetics of glycosyltransferases in human blood
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)
R01HL-21047-01 Studies of coxsackievirus-induced myocarditis in mice
R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)
** R01HL-21829-01 Etiology of obstructive airway disease in children (also monkeys)
R23HL-21918-01 Hypersensitivity pneumonitis in guinea pigs
R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)
R01HL-22257-01 Leukokinesis enhancing factor and lung infections (human, rats)
R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)
** R01HL-22302-01 Immune responses in the human lung (also rabbits, monkeys)
** R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)
** R01HL-22676-01 Pathogenesis in experimental interstitial pneumonitis (rabbits)
** R23HL-22823-01 Phagocytic and immune defense mechanisms of the lung (mice)
R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)

IMMUNITY, CELLULAR, LYMPHOCYTE ACTIVATION, TRANSFORMATION AND PROLIFERATION

SEE ALSO HYPERSENSITIVITY, LYMPHOKINES, LYMPHOCYTE TRANSFORMING FACTORS

** P01HL-06314-17 0053 Immunologic mechanisms in cardiovascular disease - Cellular functions controlled by cyclic GMP (human, mice, guinea pigs)
P50HL-15092-07 0005 Immune and fibrotic response to occupational environments - Respiratory and immunologic evaluation of toluene diisocyanate exposure (human)
P50HL-15092-07 0007 Immune and fibrotic response to occupational environments - Asbestosis--Cellular immunity, structure and mineral localization (human)
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
P50HL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
P60HL-16008-06 0019 Wayne State University comprehensive sickle cell center - Cell mediated immunity in sickle cell anemia (human)
** P01HL-17417-05 0001 Experimental lung transplantation - Mechanisms and mediators of lung allograft rejection (dogs, mice)
P01HL-17417-05 0003 Experimental lung transplantation - Methods for detecting lung allograft rejection (dogs)
** R01HL-19132-04 Role of zinc transferrin in lymphocyte transformation (human)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
R01HL-19760-01 Cellular immune responses of the lung (mice, guinea pigs)
R01HL-20971-10 Membrane glycoproteins of platelets and leukocytes (human)
R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)
R23HL-21918-01 Hypersensitivity pneumonitis in guinea pigs
R01HL-22257-01 Leukokinesis enhancing factor and lung infections (human, rats)
R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)

IMMUNITY, CROSS IMMUNITY

SEE ALSO MICROBIAL IDENTIFICATION AND CLASSIFICATION, SEROTYPING

R01HL-03919-20 The cell suface of streptococci (rats, human)
P50HL-17665-04 0011 Study of ischemic heart disease - Development of new methods for the determination of infarct size (dog, human)
P50HL-17665-04 0032 Study of ischemic heart disease - Myocardial infarct sizing--Immunoassay for cardiac myosin light chains (dogs)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)

IMMUNITY, HUMORAL IMMUNITY

SEE ALSO BLOOD CELLS, B LYMPHOCYTES

R01HL-01623-24 Antigens related to graft rejection (rabbits, rats)
R01HL-01803-23 0018 Arteriosclerosis, glomerulonephritis, rheumatic fever - Fetal immunization in pathogenesis of glomerulonephritis in adult (rabbit)
R01HL-01803-23 0019 Arteriosclerosis, glomerulonephritis, rheumatic fever - Pathogenesis of rheumatic heart disease (rabbit)
R01HL-03180-21 Relation of lymphatics to cardiopulmonary function (dogs)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
P01HL-06314-17 0061 Immunologic mechanisms in cardiovascular disease - Role of viruses in cardiovascular and renal disease (human, mice)
P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease Mitogenic and antigenic activation of lymphocyte sub-populations
** P01HL-06370-17 0001 Cardiopulmonary and renal pathology research center - The humoral and cellular mechanisms of allograft rejection (monkeys)
R01HL-08696-15 0010 Orthotopic heart transplantation - Transplantation immunology-Total lymphoid irradiation (dogs, primates)
P01HL-09011-15 0013 A research and resource program in blood - A quantitative study of immunological enhancement (mice)
** P01HL-13108-09 0011 Clinical heart transplantation - Humoral and cellular kinetics of allograft rejection (human)
R01HL-13987-04 Transplantation of the lung (dogs)
P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLD
P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
** P01HL-14388-07 0198 Regulation of the circulation in pathological states - Humoral factors in vascular reactivity in spontaneously hypertensive rats
R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
R01HL-14799-07 Cardiac heterotransplantation--Immunologic modification (mice, rat)
P50HL-15061-07 0010 Response of lung to injury - An animal model system for the study of bronchiolitis and its sequellae (dogs)
P50HL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
P50HL-15389-07 0008 Pulmonary SCOR--Hypersensitivity pneumonitis - Milwaukee patient study--Hypersensitivity pneumonitis
P50HL-15389-07 0011 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits
P50HL-15389-07 0013 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Pulmonary mycotoxicosis (rabbit, guinea pig)
P01HL-15832-06 0009 Chemical-structural predispositions to lung injury - Immunology--Enzyme degradation products of human lung elastin and microfibril
P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
P60HL-15999-05 0020 Miami comprehensive sickle cell center - Deficiency in complement-dependent humoral immunity--Sickle cell disease (human)
M P01HL-16748-05 Cellular and immunological basis of pulmonary diseases
** P01HL-16748-05 0002 Cellular and immunological basis of pulmonary diseases - Immunological function of alveolar macrophages (rabbits, sheep, mice)
** R01HL-16757-04 'Autoimmune' thrombocytopenia (monkey)
P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung - Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
P01HL-18646-03 0003 Studies basic to heart transplantation - Host responses to xenografts (rodents, rabbits)
P01HL-18646-03 0004 Studies basic to heart transplantation - Presensitization--Detection, incidence and clinical significance
P01HL-18646-03 0006 Studies basic to heart transplantation - Reduction or elimination of existing presensitization (human, animals)
** R01HL-18731-02 RES stimulating materials in experimental shock (dogs)
** P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
R01HL-18936-02 Heart preservation and transplantation studies (rat)
P50HL-19153-02 0002 SCOR--Pulmonary edemas--Etiology, pathogenesis - Lung fluid dynamics--Classical mediators and their inhibitors (sheep)
P50HL-19153-02 0003 SCOR--Pulmonary edemas--Etiology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
P50HL-19171-02 0007 Pulmonary SCOR--Lung injury by childhood infections - Immunologic studies in models of lower respiratory tract infection (rodents)
R01HL-19234-03 Streptococci and heart--Cell-mediated cross-reaction (mice)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)
R01HL-19873-03 Pulmonary responses to inhaled antigen (rabbits, guinea pigs)
R23HL-21918-01 Hypersensitivity pneumonitis in guinea pigs
R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)
R01HL-22087-02 Humoral mediators of pulmonary inflammation (guinea pigs)
R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)
R23HL-22823-01 Phagocytic and immune defense mechanisms of the lung (mice)
R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)

IMMUNITY, IMMUNIZATION (IMMUNOTHERAPY)

SEE ALSO IMMUNOLOGICAL PREPARATIONS (GENERAL)(INCLUDING CERTIFICATION AND STANDARDIZATION)
N01HB-62908-07 Maternal to infant transmission of hepatitis B (human)
** R01HL-01803-23 0001 Arteriosclerosis, glomerulonephritis, rheumatic fever - Post-streptococcal glomerulonephritis (rabbit)
R01HL-01803-23 0011 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
P60HL-16008-06 0019 Wayne State University comprehensive sickle cell center - Cell mediated immunity in sickle cell anemia (human)
R01HL-16119-05 Spleen and marrow allografts in hereditary anemia (mice)
** R01HL-16757-04 'Autoimmune' thrombocytopenia (monkey)
P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung - Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
** P60HL-17269-04 0034 National heart and blood vessel research and demonstration center - Immunologic enhancement of cardiac allografts (mice)
M P01HL-19259-03 Digoxin-specific antibody in human therapy
P01HL-19259-03 0001 Digoxin-specific antibody in human therapy - Primary structure of monoclonal antibodies (rabbits)
P01HL-19259-03 0002 Digoxin-specific antibody in human therapy - Chemical semi-synthesis of digoxin-specific antibody (rabbits)
P01HL-19259-03 0003 Digoxin-specific antibody in human therapy - Synthesis of digoxin-specific antibody in continuous cell culture (human, sheep)
P01HL-19259-03 0004 Digoxin-specific antibody in human therapy - Digitalis-specific antibodies pharmacological studies (human, dogs, sheep)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
R01HL-19711-03 Lymphokines in pulmonary granulomas (guinea pigs)
R01HL-19733-03 Absorption of antigen through inflamed lungs (rabbits)
R01HL-19760-01 Cellular immune responses of the lung (mice, guinea pigs)
R01HL-19774-03 Pathogenesis of chronic lung disease (rats, mice, bacteria)
R01HL-19818-02 Endocarditis on prosthetic heart valves (rabbits, human)
R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
R01HL-20856-02 Platelet transfusions--Usage and complications (human)
R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)

IMMUNITY, IMMUNIZATION, HYPERIMMUNIZATION

** R01HL-01803-23 0019 Arteriosclerosis, glomerulonephritis, rheumatic fever - Pathogenesis of rheumatic heart disease (rabbit)

IMMUNITY, IMMUNIZATION ACTIVE

** P60HL-15162-07 0021 Comprehensive sickle cell center - Pneumococcal vaccine in sickle cell disease (children)
P60HL-17269-04 0034 National heart and blood vessel research and demonstration center - Immunologic enhancement of cardiac allografts (mice)
R01HL-17751-03 Experimental endocarditis (rabbits)
** P60HL-20985-01 0002 Northern California sickle cell center - Immunization with polyvalent pneumococcal polysaccharide vaccine (human)
R23HL-21918-01 Hypersensitivity pneumonitis in guinea pigs

IMMUNITY, IMMUNIZATION PASSIVE

SEE ALSO IMMUNOLOGY, ANTITOXINS
** P01HL-09011-15 0020 A research and resource program in blood - Passive immunization in the prevention of transmission of hepatitis B (human)
** R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)
R01HL-19741-03 Murine CRD A model of chronic pulmonary inflammation (mice, rats)
R23HL-21918-01 Hypersensitivity pneumonitis in guinea pigs
R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)

IMMUNITY, IMMUNOLOGICAL UNRESPONSIVENESS

SEE ALSO IMMUNITY, IMMUNOSUPPRESSION
SEE ALSO IMMUNOPATHOLOGY, IMMUNOLOGIC DEFICIENCY DISORDERS
SEE ALSO METABOLIC DISORDERS INBORN, ANGIONEUROTIC EDEMA (HEREDITARY)
SEE ALSO METABOLIC DISORDERS INBORN, CHEDIAK-HIGASHI SYNDROME
P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease Mitogenic and antigenic activation of lymphocyte sub-populations
R01HL-13885-08 0006 Cystic fibrosis and pulmonary disease - Cell mediated immunity and Pseudomonas infections in cystic fibrosis (human)
P50HL-15092-07 0007 Immune and fibrotic response to occupational environments - Asbestosis--Cellular immunity, structure and mineral localization (human)
P01HL-16769-05 0007 Pathobiologic and host defense reactions in the lung - Immunogenetic factors in sarcoidosis (human)
R01HL-20014-02 Radioimmunoassay of hyper and hypocoagulable states (rabbits)
** R23HL-21997-01 Pulmonary immunopathology in the compromised host (guinea pigs)
R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)

IMMUNITY, IMMUNOSUPPRESSION

SEE ALSO HYPERSENSITIVITY DESENSITIZATION
M P01HL-06312-17 Surgical cardiology
P01HL-06312-17 0017 Surgical cardiology - Cardiac transplantation (human)
** P01HL-06312-17 0021 Surgical cardiology - Cardiac transplantation--Effect of immunosuppression on atherogenesis (monkeys)
P01HL-06312-17 0039 Surgical cardiology - Cardiac transplantation--Biopsy correlates of rejection
** P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
R01HL-08696-15 0001 Orthotopic heart transplantation - Transplantation immunology--Antithymocyte globulin (rabbits, monkeys)
R01HL-08696-15 0010 Orthotopic heart transplantation - Transplantation immunology--Total lymphoid irradiation (dogs, primates)
** R01HL-08696-15 0011 Orthotopic heart transplantation - Transplantation immunology--Immunodepressive factor (human, dogs)
** R01HL-08696-15 0012 Orthotopic heart transplantation - Transplantation immunology--Modulation of donor antigenicity (dogs)
** P01HL-13108-09 0010 Clinical heart transplantation - Serum factors inhibiting lymphocyte responses in MLC (human, bush babies)
** P01HL-13108-09 0011 Clinical heart transplantation - Humoral and cellular kinetics of allograft rejection (human)
** P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immune response (dogs)
P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
R01HL-14799-07 Cardiac heterotransplantation--Immunologic modification (mice, rat)
P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
P01HL-16748-05 0002 Cellular and immunological basis of pulmonary diseases - Immunological function of alveolar macrophages (rabbits, sheep, mice)
R01HL-16757-04 'Autoimmune' thrombocytopenia (monkey)
P01HL-16769-05 0007 Pathobiologic and host defense reactions in the lung - Immunogenetic factors in sarcoidosis (human)
P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung - Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)
P01HL-17417-05 0004 Experimental lung transplantation - Methods for suppressing lung allograft rejection (dogs, mice)
M P01HL-18646-03 Studies basic to heart transplantation
** P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
P01HL-18646-03 0003 Studies basic to heart transplantation - Host responses to xenografts (rodents, rabbits)
P01HL-18646-03 0004 Studies basic to heart transplantation - Presensitization--Detection, incidence and clinical significance

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-18646-03 0006 Studies basic to heart transplantation - Reduction or elimination of existing presensitization (human, animals)
P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
R01HL-21047-01 Studies of coxsackievirus-induced myocarditis in mice

IMMUNITY, IMMUNOSUPPRESSION, ALLOANTISERA

M R01HL-08696-15 Orthotopic heart transplantation
P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
P01HL-13108-09 0002 Clinical heart transplantation - Preoperative immunologic studies of cardiac recipients
** P01HL-13108-09 0009 Clinical heart transplantation - B cell alloantigens in cardiac allograft compatibility (human)
** P01HL-13108-09 0012 Clinical heart transplantation - Human T cell sheep erythrocyte receptors
R01HL-13987-04 Transplantation of the lung (dogs)
P01HL-18646-03 0004 Studies basic to heart transplantation - Presensitization--Detection, incidence and clinical significance

IMMUNITY, IMMUNOSUPPRESSION, ALLOANTISERA, ANTILEUKOCYTIC

** R01HL-08696-15 0001 Orthotopic heart transplantation - Transplantation immunology--Antithymocyte globulin (rabbits, monkeys)
** R01HL-08696-15 0004 Orthotopic heart transplantation - Transplantation immunology--Avian antibody studies (chickens, rats, rabbits)
R01HL-08696-15 0013 Orthotopic heart transplantation - Transplantation immunology--Cardiac heterotransplantation (rabbits, dogs)
P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
** P01HL-13108-09 0015 Clinical heart transplantation - Antithymocyte globulin analysis and clinical effects
P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immune response (dogs)
P50HL-15061-07 0006 Response of lung to injury - Complement synthesis by pulmonary macrophages (guinea pigs, human)
P50HL-15061-07 0010 Response of lung to injury - An animal model system for the study of bronchiolitis and its sequellae (dogs)
P60HL-17269-04 0034 National heart and blood vessel research and demonstration center - Immunologic enhancement of cardiac allografts (mice)
** P01HL-17417-05 0004 Experimental lung transplantation - Methods for suppressing lung allograft rejection (dogs, mice)
P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
P01HL-18646-03 0006 Studies basic to heart transplantation - Reduction or elimination of existing presensitization (human, animals)
P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
P50HL-19171-02 0007 Pulmonary SCOR--Lung injury by childhood infections - Immunologic studies in models of lower respiratory tract infection (rodents)
R01HL-19711-03 Lymphokines in pulmonary granulomas (guinea pigs)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)

IMMUNITY, IMMUNOSUPPRESSION, RADIATION IMMUNOSUPPRESSION

** R01HL-08696-15 0010 Orthotopic heart transplantation - Transplantation immunology--Total lymphoid irradiation (dogs, primates)
R01HL-13987-04 Transplantation of the lung (dogs)
** R01HL-18186-04 Cardiac allografts in autologous radiation chimeras (rats, dogs)

IMMUNITY, IMMUNOSUPPRESSIVE AGENTS

SEE ALSO IMMUNOLOGY, COMPLEMENT INHIBITORS
SEE ALSO IMMUNOLOGY, IMMUNOREGULATORY ALPHA GLOBULIN
R01HL-01803-23 0010 Arteriosclerosis, glomerulonephritis, rheumatic fever - Atherosclerosis induction--Graft rejection and hypercholesterolemia (rabbits)
P01HL-06312-17 0018 Surgical cardiology - Cardiac transplantation growth (calves)
P01HL-06312-17 0028 Surgical cardiology - Coronary flow in the transplanted denervated heart (dogs)
P01HL-06370-17 0001 Cardiopulmonary and renal pathology research center - The humoral and cellular mechanisms of allograft rejection (monkeys)
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
R01HL-08696-15 0004 Orthotopic heart transplantation - Transplantation immunology--Avian antibody studies (chickens, rats, rabbits)
R01HL-08696-15 0013 Orthotopic heart transplantation - Transplantation immunology--Cardiac heterotransplantation (rabbits, dogs)
R01HL-08696-15 0014 Orthotopic heart transplantation - Transplantation immunology--Cardiac retransplantation (dogs)
** R01HL-08696-15 0019 Orthotopic heart transplantation - Suppressor cell stimulation (dogs, mice)
R01HL-08696-15 0020 Orthotopic heart transplantation - Complete cardiopulmonary transplantation (dogs)
M P01HL-13108-09 Clinical heart transplantation
P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
** P01HL-13108-09 0015 Clinical heart transplantation - Antithymocyte globulin analysis and clinical effects
P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immune response (dogs)
P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
P01HL-16387-04 0006 The blood vessel and thrombogenesis - Mechanism of delayed vessel graft failure (dogs, rabbits)
P01HL-17417-05 0003 Experimental lung transplantation - Methods for detecting lung allograft rejection (dogs)
R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
P01HL-18646-03 0002 Studies basic to heart transplantation - Detection of rejection (dogs)
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic
P01HL-19717-02 0039 Response of the lung to injury - Lung scanning in alveolitis and asbestolic interstitial pneumonia (human, animal)
** P01HL-19717-02 0040 Response of the lung to injury - Immunosuppressive drugs in usual interstitial pneumonia (human)
R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
** R23HL-21997-01 Pulmonary immunopathology in the compromised host (guinea pigs)
** R23HL-22448-01 Modulation of heart graft antigenicity by perfusion (rats)

IMMUNITY, ISOIMMUNITY

SEE TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOIMMUNITY

IMMUNIZATION

SEE IMMUNITY, IMMUNIZATION (IMMUNOTHERAPY)

IMMUNIZATION ACTIVE

SEE IMMUNITY, IMMUNIZATION ACTIVE

IMMUNIZATION PASSIVE

SEE IMMUNITY, IMMUNIZATION PASSIVE

IMMUNOASSAY

SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOASSAY*

IMMUNOBIOLOGY STUDY SECTION

** R01HL-18186-04 Cardiac allografts in autologous radiation chimeras (rats, dogs)

IMMUNOCHEMISTRY

P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06350-17 0005 Hemostasis research program project - Purification of plasma antihemophilic factor (human)
R01HL-07379-13 Structure and function of fibrinogen (human)
R01HL-10036-13 Biology of red cell antigen-antibody reaction (human)
R01HL-10316-13 Structural studies on low density serum lipoproteins (human)
R01HL-10608-12 Digoxin-specific antibodies (human)
** P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
P01HL-11310-12 0098 Mechanisms of cardiovascular disease - Protein chemistry of thy-1 and related synaptosomal proteins (mice)
R01HL-12994-09 The Rh complex of red cells (human)
P50HL-14153-07 0015 Johns Hopkins Lung Center--Chronic diseases of airways - Kinins and human lung
** P50HL-14197-07 0008 Support for center of research on arteriosclerosis - Core facility--Lipoprotein preparation, immunochemistry
P01HL-14388-07 0211 Regulation of the circulation in pathological states - Choline acetyltransferase activity (rats)
P01HL-14388-07 0212 Regulation of the circulation in pathological states - Role of dopamine in autonomic activity
** P60HL-15158-07 0020 Comprehensive sickle cell center - Immunochemical investigation of hemoglobin variants (human)
R01HL-15474-06 Structure and function of the antihemophilic factor (human, cattle)
M P01HL-15486-06 Studies on thrombosis
** P01HL-15486-06 0002 Studies on thrombosis - Characterization of antisera to fibrinopeptide B (human, rabbits)
P01HL-15486-06 0003 Studies on thrombosis - Mechanism and prevention of fibrinopeptide B degradation (human)
P01HL-15486-06 0004 Studies on thrombosis - Thrombosis, intravascualr coagulation, platelet aggregation (dogs)
R01HL-15690-07 Hydrolytic enzymes of blood in health and disease (human, animals)
P01HL-16251-06 0002 Membrane-bound enzymes in heart and other tissues - Structural basis of regulation of cardiac succinate dehydrogenase
P01HL-16411-04 0003 Blood systems in coagulation and vessel disease - Molecular events involving the late stages of coagulation (rabbits)
P01HL-16411-04 0006 Blood systems in coagulation and vessel disease - Factor VII--Immunochemistry and immunobiology (human, mice)
R01HL-17552-03 Sickling inhibition by chemical modification of hemoglobin (human)
R01HL-17752-03 Purified human clotting factor IX--Immunologic studies (human)
R01HL-18333-05 Thrombogenesis and hemostatic balance (rabbits, human)
** P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
P01HL-18974-03 0010 Experimental neurogenic hypertension program - Biochemistry and regulation of PNMT in brain (rats)
R01HL-19131-04 Hypercoagulability and assays for its protection (human)
** R01HL-19767-01 Pathochemistry of fibrinogen (humans)
R01HL-20014-02 Radioimmunoassay of hyper and hypocoagulable states (rabbits)
R01HL-22270-01 Platelet glycoprotein (human)
R23HL-22448-01 Modulation of heart graft antigenicity by perfusion (rats)
R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)
R01HL-22671-01 Removal of senescent and stored human red cells
R23HL-22799-01 Interaction of the complement and coagulation systems (monkeys)
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)

IMMUNOCYTE ADHERENCE TECHNIQUE

SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNE ADHERENCE REACTION

IMMUNODIAGNOSIS (GENERAL)

SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOLOGICAL TESTS*

IMMUNODIFFUSION TEST

SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNODIFFUSION TESTS*

IMMUNOELECTROPHORESIS

SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOELECTROPHORESIS*

IMMUNOFLUORESCENCE

SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOFLUORESCENCE*

IMMUNOGENETICS (GENERAL)

SEE ALSO BLOOD GROUPS
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOIMMUNITY
R01HL-05351-18 Blood group antigens and antibodies (human, rabbits, sheep)
P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changes in lymphocytes (human, mice)
** P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man
P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
R01HL-07379-13 Structure and function of fibrinogen (human)
R01HL-09163-13 Control mechanisms in hemostasis (human)
P01HL-13108-09 0009 Clinical heart transplantation - B cell alloantigens in cardiac allograft compatibility (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-13987-04 Transplantation of the lung (dogs)
P50HL-15389-07 0001 Pulmonary SCOR-Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
P01HL-15832-06 0009 Chemical-structural predispositions to lung injury - Immunology-Enzyme degradation products of human lung elastin and microfibril
** P01HL-16411-04 0006 Blood systems in coagulation and vessel disease - Factor VII-Immunochemistry and immunobiology (human, mice)
P01HL-16748-05 0002 Cellular and immunological basis of pulmonary diseases - Immunological function of alveolar macrophages (rabbits, sheep, mice)
M P01HL-16769-05 Pathobiologic and host defense reactions in the lung
** P01HL-16769-05 0007 Pathobiologic and host defense reactions in the lung - Immunogenetic factors in sarcoidosis (human)
** P60HL-17265-04 0008 Community blood resource center support - Research-Blood genetic markers as biological probes (human)
R01HL-17710-04 Selective replication of hemoglobin genes (mice, ducks, human)
R01HL-19307-03 Problems in prevention of rheumatic heart disease (human)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
R01HL-19646-03 An immunologic study of hemoglobin variation in man
R01HL-19873-03 Pulmonary responses to inhaled antigen (rabbits, guinea pigs)
** R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
** R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)
** R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)
R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)

IMMUNOGLOBULIN A
SEE GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN A

IMMUNOGLOBULIN A, SECRETORY
SEE IMMUNOLOGY, SECRETORY (ANTIBODY) (FACTOR) SYSTEM

IMMUNOGLOBULIN E
SEE GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN E

IMMUNOGLOBULIN G
SEE GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN G

IMMUNOGLOBULIN M
SEE GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN M

IMMUNOGLOBULIN STRUCTURE
SEE GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN STRUCTURE

IMMUNOGLOBULINS
SEE GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN(S)

IMMUNOHEMATOLOGY (GENERAL)
SEE BLOOD AND RE SYSTEM, IMMUNOHEMATOLOGY (GENERAL)

IMMUNOLOGIC DEFICIENCY DISORDERS
SEE IMMUNOPATHOLOGY, IMMUNOLOGIC DEFICIENCY DISORDERS

IMMUNOLOGIC DISORDERS CHEMOTHERAPY
SEE IMMUNOPATHOLOGY, CHEMOTHERAPY

IMMUNOLOGIC DISORDERS DIAGNOSIS
SEE IMMUNOPATHOLOGY, DIAGNOSIS*

IMMUNOLOGICAL PARALYSIS
SEE IMMUNITY, IMMUNOLOGICAL UNRESPONSIVENESS

IMMUNOLOGICAL PREPARATIONS (GENERAL)(INCLUDING CERTIFICATION AND STANDARDIZATION)
SEE ALSO COMMUNICABLE DISEASE CONTROL AGENTS
SEE ALSO IMMUNITY, IMMUNIZATION (IMMUNOTHERAPY)
SEE ALSO IMMUNITY, IMMUNOSUPPRESSION, ALLOANTISERA
SEE ALSO IMMUNOLOGY, ANTIBODIES, IMMUNE SERA
SEE ALSO IMMUNOLOGY, ANTITOXINS
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANTATION RESOURCES, REFERRAL CENTERS AND REGISTRIES
N01HB-62908-07 Maternal to infant transmission of hepatitis B (human)
R01HL-08696-15 0001 Orthotopic heart transplantation - Transplantation immunology--Antithymocyte globulin (rabbits, monkeys)
P50HL-14197-07 0008 Support for center of research on arteriosclerosis - Core facility--Lipoprotein preparation, immunochemistry
P50HL-15389-07 0014 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of pigeon antigens
P50HL-15389-07 0015 Pulmonary SCOR-Hypersensitivity pneumonitis - Fractionation and characterization of thermophilic Actinomycete antigens
P50HL-15389-07 0019 Pulmonary SCOR-Hypersensitivity pneumonitis - Microbiology core (human, animal)
P01HL-16748-05 0002 Cellular and immunological basis of pulmonary diseases - Immunological function of alveolar macrophages (rabbits, sheep, mice)
** P01HL-16769-05 0011 Pathobiologic and host defense reactions in the lung - Core--Laboratory for biomedical preparation (rabbits)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
P60HL-20985-01 0002 Northern California sickle cell center - Immunization with polyvalent pneumococcal polysaccharide vaccine (human)

IMMUNOLOGICAL PREPARATIONS, ADJUVANTS IMMUNOLOGIC
R01HL-08696-15 0004 Orthotopic heart transplantation - Transplantation immunology--Avian antibody studies (chickens, rats, rabbits)

IMMUNOLOGICAL PREPARATIONS, ADJUVANTS IMMUNOLOGIC, FREUND'S ADJUVANT
** R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)

IMMUNOLOGICAL PREPARATIONS, TOXOIDS, TETANUS TOXOID
P01HL-19259-03 0003 Digoxin-specific antibody in human therapy - Synthesis of digoxin-specific antibody in continuous cell culture (human, sheep)

IMMUNOLOGICAL SCIENCES STUDY SECTION
** R23HL-21089-02 Localization of mediators in dispersed lung cells (guinea pigs, human)
** R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)
** R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)
** R01HL-22582-01 Pulmonary and circulatory alterations induced by IGE
** R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)
** R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)

IMMUNOLOGICAL TESTS
SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOLOGICAL TESTS*

IMMUNOLOGICAL TESTS AND IMMUNOASSAY, HEMAGGLUTINATION*
R01HL-11154-12 Blood group antigens and antibodies (human)
R01HL-12994-09 The Rh complex of red cells (human)
** R01HL-14637-05 Thrombopoietin--Immunoassay and characterization (mice)

IMMUNOLOGICAL TESTS AND IMMUNOASSAY, HEMAGGLUTINATION INHIBITION*
R01HL-10567-12 Erythropoietin--Immunoassay and characterization (dogs)
** R01HL-14637-05 Thrombopoietin--Immunoassay and characterization (mice)

IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNE ADHERENCE REACTION
P01HL-06370-17 0018 Cardiopulmonary and renal pathology research center - Cytochemistry and immunology of lymphoproliferative disorders (human)
R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)

IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOASSAY*
SEE ALSO BIOASSAY*
SEE ALSO OPTICS, MICROSCOPY, IMMUNE ELECTRON*
SEE ALSO PHYSICAL SEPARATION, CHROMATOGRAPHY, AFFINITY
** R01HL-13626-06 Lipoprotein lipase and lipoprotein removal (human, rats, bacteria)
** P01HL-14388-07 9002 Regulation of the circulation in pathological states - Core immunoassay laboratory (rabbits)
P50HL-18318-03 0003 Pathogenesis and complications of hypertension - Core biochemical laboratory
R23HL-21234-02 The regulation of cardiac hypertrophy (rabbits)
R23HL-21421-01 Myocardial and vascular contractility and cyclic nucleotides (cattle, rats)

IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNODIFFUSION TESTS*
** P60HL-15160-07 0013 Center for sickle cell disease - Immunochemical diagnosis of hemoglobinopathies (infants)
P50HL-19157-02 0007 Studies in cystic fibrosis and bronchiolitis - Analysis of cystic fibrosis factors (human)

IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOELECTROPHORESIS*
R01HL-15125-07 Molecular pathology of genetic disorders in man

IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOFLUORESCENCE*
P01HL-17417-05 0001 Experimental lung transplantation - Mechanisms and mediators of lung allograft rejection (dogs, mice)
P50HL-17669-04 0011 Ischemic heart disease center (SCOR) - Lysosomal function and lysosomal enzymes in normal and ischemic heart (rabbit)

IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOLOGICAL TESTS*
SEE ALSO HYPERSENSITIVITY TESTS
** P50HL-15389-07 0017 Pulmonary SCOR--Hypersensitivity pneumonitis - Immunology core (human)
** P01HL-18576-03 0014 Thrombosis research program project - Immunology core
P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
R01HL-22026-01 Endogenous prostaglandins in asthma

IMMUNOLOGICAL TESTS AND IMMUNOASSAY, PEROXIDASE LABELED ANTIBODY*
** P01HL-06314-17 0048 Immunologic mechanisms in cardiovascular disease - Pathogenesis of glomerulonephritis (rats, mice)

IMMUNOLOGICAL TESTS AND IMMUNOASSAY, RADIOIMMUNOASSAY*
P01HL-03174-23 0006 Mechanisms of acute vascular reaction to injury - Atherosclerotic plaque studies using mosaic analysis (human)
R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
P01HL-09011-15 0005 A research and resource program in blood - Characterization of hepatitis-B antigen and the cause of serum hepatitis (human)
** R01HL-10567-12 Erythropoietin--Immunoassay and characterization (dogs)
P01HL-11678-11 0046 Cardiovascular dynamics and their control - Regulation of aldosterone secretion and related factors (dogs)
P01HL-11678-11 0066 Cardiovascular dynamics and their control - Closed-loop analysis of the aldosterone control system (dogs)
** P01HL-11678-11 9002 Cardiovascular dynamics and their control - Core--Radioimmunoassay and chemical laboratory
R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
P50HL-14236-05 0003 Prevention of premature arteriosclerosis - Intravascular clotting in patients with hyperlipidemia
R01HL-14306-07 Quantification of arterial pressure control (dogs)
** P50HL-15062-07 0013 Study of lipoproteins, artery wall, and atherosclerosis - Radioimmunoassay of apolipoproteins (human, monkeys)
P50HL-15062-07 0021 Study of lipoproteins, artery wall, and atherosclerosis - Core laboratories
P60HL-15158-07 0020 Comprehensive sickle cell center - Immunochemical investigation of hemoglobin variants (human)
R01HL-15263-06 Lecithin--Cholesterol acetyltransferase (human, rabbits)
** R01HL-15308-07 Assays for peptides of lipoproteins (human)
P50HL-15389-07 0010 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical study--Pulmonary lesions due to non-invasive aspergillosis
** P01HL-15486-06 0001 Studies on thrombosis - Studies on chemistry of fibrinogen (human, dogs)
** P01HL-15486-06 0002 Studies on thrombosis - Characterization of antisera to fibrinopeptide B (human, rabbits)
P01HL-15486-06 0004 Studies on thrombosis - Thrombosis, intravascular coagulation, platelet aggregation (dogs)
P01HL-15486-06 0005 Studies on thrombosis - Isolation and characterization of PF4 antigens (rabbits)
R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
** P01HL-15596-05 0001 Coagulation, fibrinolysis, hemostasis and hepatitis - Defibrination (human)
** P01HL-15596-05 0002 Coagulation, fibrinolysis, hemostasis and hepatitis - Radioimmunoassay of fibrinogen and fibrin derivatives (human)
P01HL-15835-06 0002 Study of muscles related to heart disease - Proteins of smooth muscle system (cattle, rabbits)
P01HL-16118-06 0004 Study of emphysema - Metabolic activity of pulmonary connective tissue (human, hamsters)
R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
** P01HL-17430-05 0006 Control of coagulation - Activation fragments of prothrombin in vitro and in vivo (human, dogs, cattle)
R01HL-17551-04 Biosynthesis and metabolism of procollagen (human, monkeys, mice)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-17646-04 0007 Study of ischemic heart disease - Prediction of myocardial ischemic injury by analysis of plasma CPK isoenzymes
** P50HL-17665-04 0011 Study of ischemic heart disease - Development of new methods for the determination of infarct size (dog, human)
P50HL-17665-04 0032 Study of ischemic heart disease - Myocardial infarct sizing--Immunoassay for cardiac myosin light chains (dogs)
** P50HL-17669-04 0001 Ischemic heart disease center (SCOR) - Radioimmunoassays for CPK isoenzyme and myoglobin (human, dog)
** P50HL-17669-04 0002 Ischemic heart disease center (SCOR) - Myocardial infarction sizing by radioimmunoassay of cardiac myosin (dogs)
P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
R01HL-18019-04 The endocrine kidney in hypertension (mice)
R01HL-18027-03 New vasoactive factors and their role in hypertension (human, dogs, rats)
R01HL-18095-04 Human dopamine-beta-hydroxylase (also cattle)
P50HL-18318-03 0003 Pathogenesis and complications of hypertension - Core biochemical laboratory
P50HL-18323-04 0033 SCOR hypertension center - Core laboratory--Renin, aldosterone and bradykinin methodology
** R01HL-18561-03 Radioimmunoassay of angiotensinogen (human)
** R01HL-18567-03 A routine diagnostic test for minimal heart damage (human, rat)
R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
** R23HL-21328-02 The I blood group antigen of human erythrocyte membrane
R01HL-21779-01 Steroids in adrenal regeneration hypertension (rats)
** R01HL-22026-01 Endogenous prostaglandins in asthma
R01HL-22208-02 Elastin structure, fibrogenesis and disease (chickens, rabbits)
R01HL-22585-01 Plasma proteins adsorbed to artificial organs (human, rabbits)
P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)
** P01HL-22619-01 0012 Cellular mechanisms of heart failure - Apolipoproteins in hypertriglyceridemia (human)

IMMUNOLOGICAL UNRESPONSIVENESS

SEE IMMUNITY, IMMUNOLOGICAL UNRESPONSIVENESS

IMMUNOLOGY (GENERAL)

SEE ALSO ALLERGY AND IMMUNOLOGY STUDY SECTION
SEE ALSO BLDDD AND RE SYSTEM, IMMUNOHEMATOLOGY (GENERAL)
SEE ALSO BLOOO GRDUPS
SEE ALSO HYPERSENSITIVITY (GENERAL)
SEE ALSO IMMUNOPATHDLOGY (GENERAL)
SEE ALSO NEDPLASMS IMMUNOLDGY
SEE ALSO PREGNANCY IMMUNDLOGY
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOIMMUNITY
R01HL-02751-21 Function and metabolism of serum albumin (mammals, fish, amphibians)
R01HL-13909-27 Physiochemistry and immunology of macromolecules
P50HL-14164-07 0043 A/S SCDR--Comparative and experimental atherosclerosis - Electron microscopy resource laboratory
M P01HL-17417-05 Experimental lung transplantation
R01HL-18095-04 Human dopamine-beta-hydroxylase (also cattle)
P01HL-20994-02 9001 Dynamics of neutrophil elastase in the lung - Biochemistry and immunology core

IMMUNOLOGY, ACUTE PHASE PROTEINS

P60HL-17265-04 0003 Community blood resource center support - Research--Human factor IX--Role in intrinsic clotting (also baboons, dogs)
P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
R01HL-23161-01 0005 Biology of myocardial ischemia - Localization of complement in myocardial infarction (dog)

IMMUNOLOGY, ANTIBODIES

SEE ALSO BLOOD GROUPS ISOANTIBDDIES
SEE ALSO GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN(S)
SEE ALSO GLOBULINS, GAMMA GLDBULINS, IMMUNOGLOBULIN STRUCTURE
SEE ALSD HYPERSENSITIVITY, SENSITIZING ANTIBDDIES HUMORAL
SEE ALSO HYPERSENSITIVITY, SENSITIZING ANTIBDOIES NON-HUMORAL
SEE ALSO HYPERSENSITIVITY, SKIN SENSITIZING ANTIBOOY
SEE ALSO IMMUNOLOGY, ANTITOXINS
SEE ALSO IMMUNOPATHOLOGY, AUTDANTIBDDIES
SEE ALSO NEOPLASMS IMMUNOLOGY, TUMOR ANTIBOOIES
SEE ALSO TISSUE CDMPATIBILITY-TRANSPLANT, ISOALLOANTIBDDIES
R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
P01HL-09011-15 0013 A research and resource program in blood - A quantitative study of immunological enhancement (mice)
** R01HL-10608-12 Oigoxin-specific antibodies (human)
** P01HL-12157-11 0033 Functions and mechanisms of cell membrane ion transport - Immunology aspects of active Na-K transport in sheep red cell (also human, mice)
** R01HL-12524-10 Reaction of hemoglobin with ligands and antibodies (human, carp)
P50HL-14230-07 0095 A/S SCOR--Lipids, atherosclerosis and thrombosis - Blood platelet adherence to endothelial smooth muscle cells, fibroblast (human)
P50HL-14230-07 0096 A/S SCOR--Lipids, atherosclerosis and thrombosis - Ultrastructural studies of endothelial cells (human)
R01HL-15341-06 Lung hormonal and chromosomal regulation (rats, rabbits)
P01HL-16118-06 0003 Study of emphysema - Degradation of collagen and elastin (human, hamsters, mice)
** R01HL-16626-05 Studies of antibodies to antihemophilic factors (human, rabbits)
P60HL-17265-04 0002 Community blood resource center support - Research--Human factor VIII
P50HL-17669-04 0002 Ischemic heart disease center (SCDR) - Myocardial infarction sizing by radioimmunoassay of cardiac myosin (dogs)
P01HL-17813-04 0008 Lung disease and the oxygenation of blood and tissue - Pulmonary regulation of systemic blood pressure (human, rabbits, rats)
** R01HL-18003-05 Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)
P50HL-18323-04 0033 SCOR hypertension center - Core laboratory--Renin, aldosterone and bradykinin methodology
R01HL-19129-04 Cardiac glycosides--Mechanisms of cellular actions
M P01HL-19259-03 Oigoxin-specific antibody in human therapy
** P01HL-19259-03 0003 Digoxin-specific antibody in human therapy - Synthesis of dogoxin-specific antibody in continuous cell culture (human, sheep)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
R01HL-21274-01 Prorenin--Physiological and biochemical analysis (human)
R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
M R01HL-21751-02 Thallium and antimyosin in ischemia and infarction
R01HL-21751-02 0001 Thallium and antimyosin in ischemia and infarction - In vitro models of ischemia and infarction (rats, mice)
R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction
R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies--Ischemia and infarction
R23HL-21918-01 Hypersensitivity pneumonitis in guinea pigs

IMMUNOLOGY, ANTIBODIES, AGGLUTININS

R01HL-20971-10 Membrane glycoproteins of platelets and leukocytes (human)

IMMUNOLOGY, ANTIBODIES, ANTI-ANTIBODIES

P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
P01HL-06314-17 0063 Immunologic mechanisms in cardiovascular disease - Glomerular cells in tissue culture (human)
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
P01HL-18208-04 0003 Center for the study of blood cell rheology - Bone marrow microcirculation (rats, mice)
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
** P01HL-19259-03 0001 Digoxin-specific antibody in human therapy - Primary structure of monoclonal antibodies (rabbits)
** P01HL-19259-03 0002 Digoxin-specific antibody in human therapy - Chemical semi-synthesis of digoxin-specific antibody (rabbits)
** P01HL-19259-03 0003 Digoxin-specific antibody in human therapy - Synthesis of dogoxin-specific antibody in continuous cell culture (human, sheep)
** P01HL-19259-03 0004 Digoxin-specific antibody in human therapy - Oigitalis-specific antibodies pharmacological studies (human, dogs, sheep)
R01HL-19977-02 Genesis of circulatory shock by pancreatic peptides (cats, dogs)

IMMUNOLOGY, ANTIBODIES, BLOCKING ANTIBODIES

P60HL-17269-04 0034 National heart and blood vessel research and demonstration center - Immunologic enhancement of cardiac allografts (mice)

IMMUNOLOGY, ANTIBODIES, HEMAGGLUTININS

SEE ALSD PLANTS PROTEINS, LECTINS
R01HL-05351-18 Blood group antigens and antibodies (human, rabbits, sheep)

IMMUNOLOGY, ANTIBODIES, HEMAGGLUTININS, LEUKO-AGGLUTININS

N01HB-62973-05 Collection, function and transfusion of granulocytes

IMMUNOLOGY, ANTIBODIES, IMMUNE SERA

SEE ALSO GLOBULINS, SERUM GLOBULINS
SEE ALSD HYPERSENSITIVITY, SENSITIZING ANTIBODIES HUMDRAL
SEE ALSO IMMUNOLOGY, ANTITDXINS
SEE ALSO IMMUNOLOGY, PROPERDIN
SEE ALSO MICRDBIAL IDENTIFICATION ANO CLASSIFICATION, SEROTYPING
N01HI-32926-10 Analysis of lipoproteins (animals)
P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
P01HL-06835-17 0026 Cardiovascular disease - Lipoproteins (human, guinea pig)
P01HL-11310-12 0097 Mechanisms of cardiovascular disease - Structural-functional relationships of neuronal differential alloantigens (mice)
P01HL-12157-11 0055 Functions and mechanisms of cell membrane ion transport - Growth and development of synthetic strand heart cells in culture (chick embryo)
P50HL-14197-07 0008 Support for center of research on arteriosclerosis - Core facility--Lipoprotein preparation, immunochemistry
R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
P50HL-15062-07 0013 Study of lipoproteins, artery wall, and atherosclerosis - Radioimmunoassay of apolipoproteins (human, monkeys)
P60HL-15158-07 0020 Comprehensive sickle cell center - Immunochemical investigation of hemoglobin variants (human)
P60HL-15160-07 0013 Center for sickle cell disease - Immunochemical diagnosis of hemoglobinopathies (infants)
** P01HL-15486-06 0002 Studies on thrombosis - Characterization of antisera to fibrinopeptide B (human, rabbits)
P01HL-15832-06 0010 Chemical-structural predispositions to lung injury - Kinin generating systems in pulmonary disease (human, animals)
P60HL-15999-05 0020 Miami comprehensive sickle cell center - Oeficiency in complement-dependent humoral immunity--Sickle cell disease (human)
R01HL-16720-02 Platelet aggregation (human)
P01HL-16748-05 0002 Cellular and immunological basis of pulmonary diseases - Immunological function of alveolar macrophages (rabbits, sheep, mice)
P01HL-16769-05 0004 Pathobiologic and host defense reactions in the lung - Pathogenesis of Pseudomonas and Serratia pneumonias (rabbits)
R01HL-17243-05 Cause of chronic experimental renal hypertension (dogs, rabbits)
R01HL-17752-03 Purified human clotting factor IX--Immunologic studies (human)
R01HL-18567-03 A routine diagnostic test for minimal heart damage (human, rat)
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
R01HL-22302-01 Immune responses in the human lung (also rabbits, monkeys)
R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)

IMMUNOLOGY, ANTIBODIES, OPSONINS

SEE ALSO IMMUNOLOGY, PROPERDIN
P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
P01HL-08682-15 0019 Regulation of the cardiovascular system - Hepatic immunophysiology and host-defense in shock (rat, dog, human)
P50HL-15061-07 0007 Response of lung to injury - Human factors for phagocytosis in normal and diseased lungs
P50HL-15061-07 0009 Response of lung to injury - Alveolar macrophages (human, rabbits)
** P60HL-15160-07 0014 Center for sickle cell disease - Replacement therapy of opsonin deficiency in sickle cell anemia (children)
P60HL-15169-05 0009 Support for center for sickle cell disease - Infections in sickle cell anemia (human)
P60HL-15996-06 0003 Cincinnati comprehensive sickle cell center - Prophylactic penicillin in treatment of sickle cell anemia (human)
P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

* P60HL-15999-05 0020 Miami comprehensiva sickle call centar Daficiancy in complement-dapandant humoral immunity--Sickla cell disaasa (human)
P50HL-19171-02 0007 Pulmonary SCOR--Lung injury by childhood infactions - Immunologic studias in models of lower raspiratory tract infection (rodants)
R01HL-19237-03 Obstructive lung disaasa and alveolar macrophagas (human, animals)
P60HL-20985-01 0002 Northern California sickle cell cantar - Immunization with polyvalent pneumococcal polysaccharide vaccine (human)
R01HL-22302-01 Immune responses in the human lung (also rabbits, monkeys)

IMMUNOLOGY, ANTIBODIES BACTERIAL

P60HL-15162-07 0021 Comprehensive sickle cell center - Pneumococcal vaccine in sickle cell disease (children)
P50HL-15389-07 0011 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung - Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
R01HL-17751-03 Experimental endocarditis (rabbits)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)

IMMUNOLOGY, ANTIBODIES FUNGAL

P50HL-15389-07 0010 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical study--Pulmonary lesions due to non-invasive aspergillosis

IMMUNOLOGY, ANTIBODIES VIRAL

P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLO
R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)
** P50HL-19157-02 0011 Studies in cystic fibrosis and bronchiolitis - Pathogenesis of bronchiolitis (children)
R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)

IMMUNOLOGY, ANTIBODY FORMATION

R01HL-01803-23 0021 Arteriosclerosis, glomerulonephritis, rheumatic fever - Induction of IgE antibodies to antigen from tobacco and cigarette smoke (rabbits)
P01HL-06314-17 0048 Immunologic mechanisms in cardiovascular disease - Pathogenesis of glomerulonephritis (rats, mice)
P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Dirofilaria immitis in the dog
P01HL-12157-11 0055 Functions and mechanisms of cell membrane ion transport - Growth and development of synthetic strand heart cells in culture (chick embryo)
P01HL-13108-09 0012 Clinical heart transplantation - Human T cell sheep erythrocyte receptors
P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLO
P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
P50HL-15389-07 0010 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical study--Pulmonary lesions due to non-invasive aspergillosis
P50HL-15389-07 0012 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Immunologic lung disease in guinea pigs
P01HL-15486-06 0002 Studies on thrombosis - Characterization of antisera to fibrinopeptide B (human, rabbits)
P01HL-15832-06 0002 Chemical-structural predispositions to lung injury - Connective tissue in lung in development and repair of injury (human, rats, mice)
P01HL-15832-06 0004 Chemical-structural predispositions to lung injury - Proteolytic activity leucocytes in patients with obstructive lung disease
P01HL-15832-06 0009 Chemical-structural predispositions to lung injury - Immunology--Enzyme degradation products of human lung elastin and microfibril
R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)
R01HL-16626-05 Studies of antibodies to antihemophilic factors (human, rabbits)
M P01HL-16748-05 Cellular and immunological basis of pulmonary diseases
** P01HL-16748-05 0002 Cellular and immunological basis of pulmonary diseases - Immunological function of alveolar macrophages (rabbits, sheep, mice)
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
R01HL-17751-03 Experimental endocarditis (rabbits)
** R01HL-17752-03 Purified human clotting factor IX--Immunologic studies (human)
R01HL-18997-02 Ischemic therapy in experimental hypersplenism (rats, dogs)
P01HL-19259-03 0003 Digoxin-specific antibody in human therapy Synthasis of dogoxin-specific antibody in continuous call cultura (human, sheep)
R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamstars)
P01HL-19717-02 0037 Response of the lung to injury Catecholamines, prostagfandins and nucleotides in pulmonary function (animals)
R01HL-19873-03 Pulmonary responses to inhaled antigen (rabbits, guinea pigs)
R01HL-20086-02 Circulatory control of splenic function (rats)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)
P60HL-20985-01 0002 Northern California sickle cell center - Immunization with polyvalent pneumococcal polysaccharide vaccine (human)
R01HL-21829-01 Etiology of obstructive airway disease in children (also monkeys)
R01HL-21995-01 Protein phosphorylation and adrenergic effects
R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)
R01HL-22302-01 Immune responses in the human lung (also rabbits, monkeys)
R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)
** R01HL-22582-01 Pulmonary and circulatory alterations induced by IGE

IMMUNOLOGY, ANTIBODY SPECIFICITY

P60HL-15158-07 0020 Comprehensive sickle cell center - Immunochemical investigation of hemoglobin variants (human)
P60HL-15999-05 0019 Miami comprehensive sickle cell center - Fetal-adult hemoglobin switch (mouse, monkey)
P01HL-17417-05 0001 Experimental lung transplantation - Mechanisms and mediators of lung allograft rejection (dogs, mice)
P50HL-17665-04 0011 Study of ischemic heart disease - Development of new methods for the determination of infarct size (dog, human)
P50HL-17665-04 0032 Study of ischemic heart disease - Myocardial infarct sizing--Immunoassay for cardiac myosin light chains (dogs)
P01HL-19259-03 0002 Digoxin-specific antibody in human therapy - Chemical semi-synthesis of digoxin-specific antibody (rabbits)
R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)
R01HL-19733-03 Absorption of antigen through inflamed lungs (rabbits)
R01HL-20086-02 Circulatory control of splenic function (rats)
R01HL-21874-01 SRS-A--Its biosynthesis and action

IMMUNOLOGY, ANTIGEN-ANTIBODY REACTIONS

SEE ALSO IMMUNOLOGICAL TESTS AND IMMUNOASSAY, HEMAGGLUTINATION*
SEE ALSO IMMUNOLOGY, SEROLOGY*
P01HL-03174-23 Mechanisms of acute vascular reaction to injury
P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel didease--Cell and matrix response (human, mice)
P01HL-06314-17 0048 Immunologic mechanisms in cardiovascular disease - Pathogenesis of glomerulonephritis (rats, mice)
R01HL-08399-15 Platelet injury in infections and allergic diseases (human)
** R01HL-10036-13 Biology of red cell antigen-antibody reaction (human)
R01HL-11154-12 Blood group antigens and antibodies (human)
R01HL-12994-09 The Rh complex of red cells (human)
P01HL-13108-09 0013 Clinical heart transplantation - Cardiomyopathic lymphocyte responsiveness to cultured endothelium
P50HL-15389-07 0011 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits
P50HL-15389-07 0017 Pulmonary SCOR--Hypersensitivity pneumonitis - Immunology core (human)
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
P60HL-17265-04 0002 Community blood resource center support - Research--Human factor VIII
P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
P01HL-17417-05 0003 Experimental lung transplantation - Methods for detecting lung allograft rejection (dogs)
P50HL-17665-04 0011 Study of ischemic heart disease - Development of new methods for the determination of intarct size (dog, human)
R01HL-18535-03 Epidemiology and course of viral myopericarditis (human)
P50HL-18828-03 0003 Specialized center of research in thrombosis Structure and function of plasma coagulation inhibitors (human)
P50HL-19156-02 0005 Pulmonary SCOR--Chronic diseases of airways Vagal receptors in the airway Epithelial injury and antigen (dog, cat, rabbit)
P50HL-19171-02 0007 Pulmonary SCOR--Lung injury by childhood infections - Immunologic studies in models of lower respiratory tract infection (rodents)
R01HL-19456-03 Immunoglobulins associated with serum hyperviscosity (human)
P01HL-19717-02 0037 Response of the lung to injury Catecholamines, prostagiandins and nucleotides in pulmonary function (animals)
R01HL-20086-02 Circulatory control of splenic function (rats)
R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
R01HL-22505-01 Molecular pathology of fibrinogen and factor XIII (human, animals)
R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)

IMMUNOLOGY, ANTIGEN-ANTIBODY REACTIONS, IMMUNE COMPLEXES

SEE ALSO BLOOD PLATELETS, PLATELET AGGREGATION
SEE ALSO HYPERSENSITIVITY, SERUM SICKNESS
** R01HL-01803-23 0021 Arteriosclerosis, glomerulonephritis, rheumatic fever - Induction of IgE antibodies to antigen from tobacco and cigarette smoke (rabbits)
R01HL-16626-05 Studies of antibodies to antihemophilic factors (human, rabbits)
** R01HL-16646-05 Pathobiology of thromboembolic disorders (human)
P01HL-17417-05 0001 Experimental lung transplantation - Mechanisms and mediators of lung allograft rejection (dogs, mice)

IMMUNOLOGY, ANTIGENS

SEE ALSO BLOOD GROUPS ANTIGENS
SEE ALSO HYPERSENSITIVITY, ALLERGENS
SEE ALSO IMMUNOLOGY, HAPTENS
SEE ALSO IMMUNOPATHOLOGY, AUTOANTIGENS
SEE ALSO NEOPLASMS IMMUNOLOGY, TUMOR ANTIGENS
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOANTIGENS
SEE ALSO TOXINS
N01HB-62962-02 Red cell distributions in cyanate-treated blood (human, sheep)
R01HL-01803-23 0011 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease - Mitogenic and antigenic activation of lymphocyte sub-populations
P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Dirofilaria immitis in the dog
** P01HL-11310-12 0099 Mechanisms of cardiovascular disease - Carbohydrate chemistry ot thy-1 and related synaptosomal proteins
** P50HL-15389-07 0014 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of pigeon antigens
P01HL-15486-06 0002 Studies on thrombosis - Characterization of antisera to fibrinopeptide B (human, rabbits)
P01HL-15596-05 0001 Coagulation, fibrinolysis, hemostasis and hepatitis - Defibrination (human)
P01HL-15596-05 0018 Coagulation, fibrinolysis, hemostasis and hepatitis - Increased plasma lipids on blood coagulation and thrombosis (human, animals)
P01HL-16748-05 0002 Cellular and immunological basis of pulmonary diseases - Immunological function of alveolar macrophages (rabbits, sheep, mice)
P01HL-16748-05 0006 Cellular and immunological basis of pulmonary diseases - Sarcoidosis--Studies with bronchial lavage (human)
R01HL-17243-05 Cause of chronic experimental renal hypertension (dogs, rabbits)
** P50HL-18828-03 0002 Specialized center ot research in thrombosis - Endothelial cell biology (human, guinea pig)
** R01HL-19733-03 Absorption of antigen through inflamed lungs (rabbits)
** R23HL-21730-01 vWagII--A new vWO deficient antigen (human)
R01HL-22924-01 The airway mucosal barrier (guinea pigs)

IMMUNOLOGY, ANTIGENS, SURFACE ANTIGENS (GENERAL)

SEE ALSO BLOOD GROUPS ANTIGENS
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOANTIGENS
R01HL-08696-15 0012 Orthotopic heart transplantation - Transplantation immunology--Modulation of donor antigenicity (dogs)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-15832-06 0002 Chemical-structural predispositions to lung injury - Connective tissue in lung in development and repair of injury (human, rats, mice)
P60HL-16008-06 0019 Wayne State University comprehensive sickle cell center - Cell mediated immunity in sickle cell anemia (human)
R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
** P01HL-16851-04 0005 Human red cell membrane in health and disease - Relation of hemoglobin species to membrane properties (human)
P50HL-17648-04 0026 Study of ischemic heart disease - Control of muscle cell proliferation (organ culture)
P01HL-18576-03 0011 Thrombosis research program project - Proteolysis and platelet function (human, cattle, rabbits)
P01HL-18645-03 0003 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
R01HL-19068-03 Changes in membrane properties during erythropoiesis (chick embryo)
R01HL-19234-03 Streptococci and heart--Cell-mediated cross-reaction (mice)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R01HL-19741-03 Murine CRD--A model of chronic pulmonary inflammation (mice, rats)
R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)

IMMUNOLOGY, ANTIGENS BACTERIAL

SEE ALSO POLYSACCHARIDES, BACTERIAL (GENERAL)
R01HL-03919-20 The cell suface of streptococci (rats, human)
** P01HL-06314-17 0057 Immunologic mechanisms in cardiovascular disease - Antigens in cardiovascular disease (human)
** P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man
** P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
R01HL-13885-08 0006 Cystic fibrosis and pulmonary disease - Cell mediated immunity and Pseudomonas infections in cystic fibrosis (human)
R01HL-13885-08 0008 Cystic fibrosis and pulmonary disease - Pseudomonas specific activation of alveolar macrophages (human, rabbits)
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
P50HL-15389-07 0008 Pulmonary SCOR--Hypersensitivity pneumonitis - Milwaukee patient study--Hypersensitivity pneumonitis
** P50HL-15389-07 0015 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of thermophilic Actinomycete antigens
P50HL-15389-07 0017 Pulmonary SCOR--Hypersensitivity pneumonitis - Immunology core (human)
P50HL-15389-07 0019 Pulmonary SCOR--Hypersensitivity pneumonitis - Microbiology core (human, animal)
P01HL-16387-04 0002 The blood vessel and thrombogenesis - Hormonal effects on thrombogenesis (rats, rabbits)
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung - Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
** R01HL-17567-03 Lipoprotein-cytolytic toxin interaction (Staphylococcus aureus, mammals, human)
R01HL-19741-03 Murine CRD--A model of chronic pulmonary inflammation (mice, rats)
R01HL-19760-01 Cellular immune responses of the lung (mice, guinea pigs)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)
R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)

IMMUNOLOGY, ANTIGENS BACTERIAL, BACTERIAL TOXINS (GENERAL)

SEE ALSO BLOOD TOXICOLOGY, BACTEREMIA-SEPTICEMIA
SEE ALSO IMMUNOLOGY, ANTIGENS BACTERIAL, ENDOTOXINS
SEE ALSO IMMUNOLOGY, ANTIGENS BACTERIAL, EXOTOXINS
SEE ALSO IMMUNOLOGY, ANTITOXINS
R01HL-20652-01 Sites of leakage in pulmonary edema (dogs)

IMMUNOLOGY, ANTIGENS BACTERIAL, CHOLERA TOXIN

P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)

IMMUNOLOGY, ANTIGENS BACTERIAL, DIPHTHERIA TOXIN

R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)

IMMUNOLOGY, ANTIGENS BACTERIAL, ENDOTOXINS

** R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
R01HL-08399-15 Platelet injury in infections and allergic diseases (human)
P01HL-08682-15 0019 Regulation of the cardiovascular system - Hepatic immunophysiology and host-defense in shock (rat, dog, human)
P01HL-08682-15 0021 Regulation of the cardiovascular system - Hypoglycemia in pathogenesis of shock (dog)
R01HL-14739-06 The role of leukocytes in thrombotic disease (human, dogs)
P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
R01HL-16361-03 Fibrin complexes in intermediary coagulation (human, rabbits)
** P01HL-16411-04 0004 Blood systems in coagulation and vessel disease - Platelets reactions in vascular injury (human, animals)
** R01HL-16646-05 Pathobiology of thromboembolic disorders (human)
R01HL-16916-04 0011 The role of albumins in lung water accumulation - Whole body distribution and exchange of albumin (rabbits, human, monkeys)
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)
M P01HL-17812-04 Thrombosis and plasma proteins
P01HL-17812-04 0005 Thrombosis and plasma proteins - In vitro systems of normal platelets, white cells, sera (human)
** P01HL-17812-04 0007 Thrombosis and plasma proteins - Blood components--Response to endotoxin (dogs, baboons)
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
R01HL-18731-02 RES stimulating materials in experimental shock (dogs)
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
** R01HL-20878-02 Cellular aspects of lung injury (rats, rabbits)
R01HL-21376-02 Blood-gas barrier solute and water transport (rabbits)
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
** R01HL-23114-01 Control of platelet aggregation in shock (dogs, rabbits)
R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)

IMMUNOLOGY, ANTIGENS BACTERIAL, EXOTOXINS

SEE ALSO IMMUNOLOGY, ANTIGENS BACTERIAL, DIPHTHERIA TOXIN
SEE ALSO IMMUNOLOGY, ANTIGENS BACTERIAL, STREPTOKINASE
SEE ALSO IMMUNOLOGY, ANTITOXINS
P01HL-16137-05 0001 Alveolar biology - Chemical characterization of surfactant system--Lipid and lipid protein fractions

IMMUNOLOGY, ANTIGENS BACTERIAL, M PROTEIN

R01HL-01803-23 0001 Arteriosclerosis, glomerulonephritis, rheumatic fever - Post-streptococcal glomerulonephritis (rabbit)
R01HL-01803-23 0018 Arteriosclerosis, glomerulonephritis, rheumatic fever - Fetal immunization in pathogenesis of glomerulonephritis in adult (rabbit)
R01HL-03919-20 The cell suface of streptococci (rats, human)
** R01HL-17194-03 Comparison of two inherited forms of alpha-1-antitrypsin (human)
R01HL-19307-03 Problems in prevention of rheumatic heart disease (human)

IMMUNOLOGY, ANTIGENS BACTERIAL, STREPTOKINASE

R01HL-04366-19 Plasminogen--Activation and structure-function relations (mammals, birds)
** R01HL-11172-12 Physiology and biochemistry of fibrinolytic enzymes (human, animals)
R01HL-13423-08 Structure-function studies of plasminogen and plasmin (human)
P50HL-14217-08 0049 Specialized center of research in thrombosis - Fibrinolysis section--Clinical studies
P50HL-14217-08 0052 Specialized center of research in thrombosis - Radioisotope nuclear medicine section (human, dog)
R01HL-15817-06 Plasminogen activators from tissues (human, pig, cattle)
** P01HL-17812-04 0001 Thrombosis and plasma proteins - Thrombosis and plasma proteins (cattle, guinea pigs)
R01HL-18672-03 Dynamic studies of clot structure formation (human)

IMMUNOLOGY, ANTIGENS FUNGAL

SEE ALSO TOXICOLOGY, MYCOTOXINS
P50HL-15389-07 0008 Pulmonary SCOR--Hypersensitivity pneumonitis - Milwaukee patient study--Hypersensitivity pneumonitis
P50HL-15389-07 0010 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical study--Pulmonary lesions due to non-invasive aspergillosis
P50HL-15389-07 0019 Pulmonary SCOR--Hypersensitivity pneumonitis - Microbiology core (human, animal)

IMMUNOLOGY, ANTIGENS HELMINTHIC

P50HL-19155-02 0004 Pathophysiology of pulmonary edema - Physical and chemical effects of multiple pulmonary emboli (sheep)
P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma

IMMUNOLOGY, ANTIGENS MICROBIAL, ZYMOSAN

P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
** P01HL-15596-05 0012 Coagulation, fibrinolysis, hemostasis and hepatitis - Platelet function--Phorbol ester and zymosan-induced release activity
R01HL-18731-02 RES stimulating materials in experimental shock (dogs)

IMMUNOLOGY, ANTIGENS VIRAL

** P01HL-06314-17 0061 Immunologic mechanisms in cardiovascular disease - Role of viruses in cardiovascular and renal disease (human, mice)
R01HL-18152-03 Vascular injury and atherosclerosis (mice, coxsackievirus)
R01HL-19018-03 Etiologic factors in cryptogenic fibrosing alveolitis (human)
P50HL-19171-02 0007 Pulmonary SCOR--Lung injury by childhood infections - Immunologic studies in models of lower respiratory tract infection (rodents)
R01HL-21047-01 Studies of coxsackievirus-induced myocarditis in mice
R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)

IMMUNOLOGY, ANTIGENS VIRAL, HEPATITIS B ANTIGEN (HBAG)

N01HB-62908-07 Maternal to infant transmission of hepatitis B (human)
** P01HL-09011-15 0005 A research and resource program in blood - Characterization of hepatitis-B antigen and the cause of serum hepatitis (human)
** P01HL-09011-15 0018 A research and resource program in blood - Hepatitis B in normal populations--Epidemiology, risk factors and transmission
P01HL-11310-12 0095 Mechanisms of cardiovascular disease - Blood and transfusion disorders (human, rats, monkeys)
** P01HL-15596-05 0016 Coagulation, fibrinolysis, hemostasis and hepatitis - Hepatitis-B antigen in whole blood, plasma and plasma fractions (human, monkeys)
** P60HL-17269-04 0035 National heart and blood vessel research and demonstration center - Blood resources--Research program in viral hepatitis (human)

IMMUNOLOGY, ANTITOXINS

SEE ALSO IMMUNOLOGY, ANTIBODIES, IMMUNE SERA
R01HL-18003-05 Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)

IMMUNOLOGY, COMPLEMENT

P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
** P01HL-06314-17 0062 Immunologic mechanisms in cardiovascular disease - Immunologic renal vascular disease (human, animals)
P01HL-06314-17 0063 Immunologic mechanisms in cardiovascular disease - Glomerular cells in tissue culture (human)
P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
P01HL-09011-15 0001 A research and resource program in blood - Genetic markers of human blood and gene mapping (human)
P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics
** P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
P01HL-13108-09 0003 Clinical heart transplantation - Endomyocardial biopsy pathology
R01HL-13160-08 Human thrombin (also cattle)
P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P50HL-15061-07 0006 Response of lung to injury Complement synthesis by pulmonary macrophages (guinea pigs, human)
P50HL-15061-07 0007 Response of lung to injury Human factors for phagocytosis in normal and diseased lungs
P50HL-15061-07 0009 Response of lung to injury Alveolar macrophages (human, rabbits)
P60HL-15169-05 0009 Support for center for sickle cell disease - Infections in sickle cell anemia (human)
** R01HL-15215-06 Role of complement in intravascular coagulation (rabbits, mice)
P50HL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
P50HL-15389-07 0008 Pulmonary SCOR--Hypersensitivity pneumonitis - Milwaukee patient study--Hypersensitivity pneumonitis
P50HL-15389-07 0012 Pulmonary SCDR--Hypersensitivity pneumonitis - Animal model--Immunologic lung disease in guinea pigs
P50HL-15389-07 0017 Pulmonary SCOR--Hypersensitivity pneumonitis - Immunology core (human)
** R01HL-15690-07 Hydrolytic enzymes of blood in health and disease (human, animals)
P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
** P60HL-15999-05 0020 Miami comprehensive sickle cell center - Deficiency in complement-dependent humoral immunity--Sickle cell disease (human)
M P01HL-16411-04 Blood systems in coagulation and vessel disease
** P01HL-16411-04 0001 Blood systems in coagulation and vessel disease - Molecular studies of the role of complement in blood coagulation (human, rabbits)
P01HL-16411-04 0002 Blood systems in coagulation and vessel disease - Early stages of coagulation and cardiovascular disease (human, rabbits)
** P01HL-16411-04 0005 Blood systems in coagulation and vessel disease - Chemical analysis of serum components associated with coagulation (human, animal)
M P01HL-16769-05 Pathobiologic and host defense reactions in the lung
** P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
P01HL-17812-04 0007 Thrombosis and plasma proteins - Blood components--Response to endotoxin (dogs, baboons)
R01HL-18012-04 Cellular defects in nocturnal hemoglobinuria (human)
R01HL-18625-03 Organization of arterial ground substance (cattle)
P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
** P50HL-18828-03 0004 Specialized center of research in thrombosis - Membrane changes in platelet physiology--Role of complement (mice, human)
P5DHL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
P50HL-19157-D2 0008 Studies in cystic fibrosis and bronchiolitis - Serum proteins in cystic fibrosis (human)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
** RD1HL-19725-03 Complement induced pulmonary injury (dogs, rabbits, sheep)
** R01HL-19795-03 Synthesis of anaphylatoxic and leucotactic peptides (human)
R01HL-19819-D3 Mitogen induced interstitial pneumonitis (rabbits)
R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
** R01HL-20220-03 Anaphylatoxins as inflammatory and chemotactic agents (guinea pig, rabbit, human)
** R01HL-20394-D3 Complement activation by heart subcellular membranes (human, dog)
R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
P60HL-2D985-D1 0002 Northern Calitornia sickle cell center - Immunization with polyvalent pneumococcal polysaccharide vaccine (human)
R23HL-21918-01 Hypersensitivity pneumonitis in guinea pigs
** R23HL-22799-01 Interaction of the complement and coagulation systems (monkeys)
R23HL-22823-01 Phagocytic and immune defense mechanisms of the lung (mice)
RD1HL-22996-01 Venom proteases--Action on plasma protease inhibitors (human)
** R01HL-23161-01 D005 Biology of myocardial ischemia - Localization of complement in myocardial infarction (dog)
** P60HL-23282-01 0002 Comprehensive hospital/community sickle cell center Clinical evaluation ot alternate pathaway ot compliment activation
R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)

IMMUNOLOGY, COMPLEMENT, CHEMOTACTIC FACTORS

P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
P50HL-14153-07 0014 Johns Hopkins Lung Center--Chronic diseases ot airways - Mediator release in asthma (human)
P50HL-14217-08 0050 Specialized center ot research in thrombosis - Electron microscopy section (dogs)
P01HL-16411-04 0001 Blood systems in coagulation and vessel disease - Molecular studies of the role of complement in blood coagulation (human, rabbits)
P01HL-16411-04 0005 Blood systems in coagulation and vessel disease - Chemical analysis of serum components associated with coagulation (human, animal)
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
M P01HL-17382-05 Chemical mediators of acute pulmonary disorders
P01HL-17382-05 0003 Chemical mediators of acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
R01HL-19741-03 Murine CRD--A model of chronic pulmonary inflammation (mice, rats)
** R01HL-19806-03 Chemotactic control of airway phagocytes (human, rabbits)
R01HL-20002-03 Pulmonary complications of viral infections (children)
** R01HL-20220-03 Anaphylatoxins as inflammatory and chemotactic agents (guinea pig, rabbit, human)
R23HL-21997-01 Pulmonary immunopathology in the compromised host (guinea pigs)
R01HL-22302-01 Immune responses in the human lung (also rabbits, monkeys)
R23HL-22437-01 Leukotactic mediators in lung inflammatory reactions (rats, rabbits, human)
R01HL-23161-01 0005 Biology of myocardial ischemia - Localization of complement in myocardial infarction (dog)

IMMUNOLOGY, COMPLEMENT ESTERASE DEFICIENCY OR DYSFUNCTION

SEE METABOLIC OISOROERS INBORN, ANCIDNEURDTIC EOEMA (HEREDITARY)

IMMUNOLOGY, COMPLEMENT INHIBITORS

P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
P60HL-17265-04 0003 Community blood resource center support - Research--Human factor IX--Role in intrinsic clotting (also baboons, dogs)
P5DHL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
P50HL-18828-03 0D04 Specialized center of research in thrombosis - Membrane changes in platelet physiology--Role of complement (mice, human)
P5DHL-19157-02 D008 Studies in cystic fibrosis and bronchiolitis - Serum proteins in cystic fibrosis (human)
R23HL-22437-01 Leukotactic mediators in lung inflammatory reactions (rats, rabbits, human)
R01HL-23161-01 D005 Biology of myocardial ischemia - Localization of complement in myocardial infarction (dog)

IMMUNOLOGY, HAPTENS

SEE ALSO HYPERSENSITIVITY, ALLERCENS
R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
PD1HL-15832-06 D009 Chemical-structural predispositions to lung injury - Immunology--Enzyme degradation products of human lung elastin and microfibril

IMMUNOLOGY, HAPTENS (CARDIOLIPIN)

SEE PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, CARDIOLIPINS

IMMUNOLOGY, IMMUNE ADHERENCE

SEE ALSO IMMUNOLOCICAL TESTS AND IMMUNDASSAY, IMMUNE ADHERENCE REACTION
P50HL-14217-08 D050 Specialized center of research in thrombosis - Electron microscopy section (dogs)

IMMUNOLOGY, IMMUNOREGULATORY ALPHA GLOBULIN

R01HL-19777-D3 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)

IMMUNOLOGY, INTERFERON

P50HL 14212-07 0015 Correlated studies of pulmonary fibrosis Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
R01HL-19651-03 Host factors in pathogenesis ol respiratory disease (human, hamsters)

IMMUNOLOGY, MICROBIAL

SEE ALSD IMMUNITY, BACTERICIDAL DEFENSES (CENERAL)
SEE ALSD IMMUNDLOCY, PROPERDIN
P50HL-19171-02 0012 Pulmonary SCOR -Lung injury by childhood infections - Laboratory support core
R01HL-19234-03 Streptococci and heart -Cell-mediated cross-reaction (mice)
R01HL-19381-03 Pathogenesis ot viral induced atherosclerosis (human, chicken)
R01HL-19741-03 Murine CRO--A model of chronic pulmonary intlammation (mice, rats)
R01HL-19774-03 Pathogenesis ot chronic lung disease (rats, mice, bacteria)
R01HL-20002-03 Pulmonary complications of viral infections (children)
R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)
R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)
R23HL-22823-01 Phagocytic and immune defense mechanisms of the lung (mice)
R01HL-22981-17 Membrane-associated functions in microorganisms (bacteria, protozoa)

IMMUNOLOGY, PROPERDIN

SEE ALSO IMMUNOLOCY, ANTIBODIES, IMMUNE SERA
SEE ALSD IMMUNDLOCY, ANTIBODIES, OPSONINS
P01HL-16411-04 0001 Blood systems in coagulation and vessel disease - Molecular studies of the role of complement in blood coagulation (human, rabbits)
P50HL-18828-03 0004 Specialized center of research in thrombosis - Membrane changes in platelet physiology--Role of complement (mice, human)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
** R23HL-22799-01 Interaction of the complement and coagulation systems (monkeys)

IMMUNOLOGY, SECRETORY (ANTIBODY) (FACTOR) SYSTEM

P50HL-14153-07 0016 Johns Hopkins Lung Center--Chronic diseases of airways - Airways defense mechanisms (dogs)
P50HL-15061-07 0007 Response of lung to injury - Human factors for phagocytosis in normal and diseased lungs
P50HL-15061-07 0009 Response of lung to injury - Alveolar macrophages (human, rabbits)
P50HL-19171-02 0007 Pulmonary SCOR--Lung injury by childhood infections - Immunologic studies in models ot lower respiratory tract infection (rodents)
P50HL-19171-02 0012 Pulmonary SCDR--Lung injury by childhood infections - Laboratory support core

IMMUNOLOGY, SEROLOGY*

SEE ALSO BLDDO AND RE SYSTEM, BLDOD, SERUM
SEE ALSD IMMUNOLOCICAL TESTS ANO IMMUNDASSAY, HEMACCLUTINATIDN*
SEE ALSO IMMUNOLDCICAL TESTS AND IMMUNOASSAY, IMMUNDDIFFUSION TESTS*
SEE ALSO MICROBIAL IDENTIFICATION AND CLASSIFICATION, SERDTYPING
** P01HL-09D11-15 0001 A research and resource program in blood - Cenetic markers of human blood and gene mapping (human)
P01HL-13108-09 0009 Clinical heart transplantation - B cell alloantigens in cardiac allograft compatibility (human)
P01HL-14388-D7 9002 Regulation of the circulation in pathological states - Core immunoassay laboratory (rabbits)
P60HL-23282-01 0D04 Comprehensive hospital/community sickle cell center - Bacterial, viral and mycoplasmal infections and sickle cell disease complications

IMMUNOLOGY, TOXIC REACTIONS AND MECHANISMS IN IMMUNOLOGY

SEE ALSD HYPERSENSITIVITY, TDXIC REACTIDNS AND MECHANISMS IN HYPERSENSITIVITY
P5DHL-14212-D7 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)

IMMUNOPATHOLOGY (GENERAL)

SEE ALSD BLDOD GROUP INCOMPATIBILITY
SEE ALSD HYPERSENSITIVITY (CENERAL)
SEE ALSD METABDLIC DISDRDERS (INBORN), AMYLDIDOSIS
SEE ALSO NEDPLASMS IMMUNOLOCY
M RD1HL-01803-23 Arteriosclerosis, glomerulonephritis, rheumatic fever
R01HL-01803-23 0001 Arteriosclerosis, glomerulonephritis, rheumatic fever - Post-streptococcal glomerulonephritis (rabbit)
R01HL-01803-23 0D05 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic and dietary synergy in the pathogenesis of atherosclerosis (rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-01803-23 0010 Arteriosclerosis, glomerulonephritis, rheumatic fever - Atherosclerosis induction--Graft rejection and hypercholesterolemia (rabbits)
** R01HL-01803-23 0011 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
** R01HL-01803-23 0015 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic endothelial injury and lipid diet atherosclerosis (rabbits, monkey)
R01HL-01803-23 0020 Arteriosclerosis, glomerulonephritis, rheumatic fever - Virus-induced arterosclerosis (chickens)
P01HL-03174-23 0002 Mechanisms of acute vascular reaction to injury - Chemical structure, pathological significance of amyloid substance (human, mice)
M P01HL-06314-17 Immunologic mechanisms in cardiovascular disease
** P50HL-15092-07 0014 Immune and fibrotic response to occupational environments - Clinical immunology core resource
** R01HL-15677-06 Autonomic nervous system function in bronchial asthma (human, guinea pig, rabbit)
** R01HL-16920-02 Proteases in normal and immunologically injured lung (guinea pigs, rabbits)
** R01HL-17404-05 Immunologic mechanisms in heart disease (mice)
P01HL-17813-04 0002 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Ultrastructural abnormalities (human)
P01HL-17813-04 0008 Lung disease and the oxygenation of blood and tissue - Pulmonary regulation of systemic blood pressure (human, rabbits, rats)
** P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
** P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
** R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
P01HL-19717-02 0019 Response of the lung to injury - Animal model of fibrosing alveolitis (hamsters, guinea pigs, rabbits)
R01HL-19741-03 Murine CRO--A model of chronic pulmonary inflammation (mice, rats)
R01HL-20394-03 Complement activation by heart subcellular membranes (human, dog)
R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
** R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)

IMMUNOPATHOLOGY, AUTOANTIBODIES

R01HL-10036-13 Biology of red cell antigen-antibody reaction (human)
R01HL-12994-09 The Rh complex of red cells (human)
P50HL-15092-07 0006 Immune and fibrotic response to occupational environments - Immunologic studies in silicosis (human, rabbits, hamsters, guinea pigs)
R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)
P01HL-16411-04 0003 Blood systems in coagulation and vessel disease - Molecular events involving the late stages of coagulation (rabbits)
P01HL-16411-04 0006 Blood systems in coagulation and vessel disease - Factor VII--Immunochemistry and immunobiology (human, mice)
R01HL-16626-05 Studies of antibodies to antihemophilic factors (human, rabbits)
P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)
P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
R01HL-20394-03 Complement activation by heart subcellular membranes (human, dog)
** P60HL-20985-01 0007 Northern California sickle cell center - Immunohematologic abnormalities in sickle cell anemia (human)
R23HL-21328-02 The I blood group antigen of human erythrocyte membrane
R01HL-22671-01 Removal of senescent and stored human red cells
R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)
** R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)

IMMUNOPATHOLOGY, AUTOANTIGENS

** P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man
R01HL-13629-08 Hemorrhagic diseases (human)
** P01HL-16769-05 0007 Pathobiologic and host defense reactions in the lung - Immunogenetic factors in sarcoidosis (human)

IMMUNOPATHOLOGY, AUTOIMMUNE DISORDERS

SEE ALSO BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC AUTOIMMUNE

R01HL-01623-24 Antigens related to graft rejection (rabbits, rats)
R01HL-02751-21 Function and metabolism of serum albumin (mammals, fish, amphibians)
P01HL-06314-17 0048 Immunologic mechanisms in cardiovascular disease - Pathogenesis of glomerulonephritis (rats, mice)
P01HL-06314-17 0062 Immunologic mechanisms in cardiovascular disease - Immunologic renal vascular disease (human, animals)
R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
** R01HL-13336-09 Biochemistry and physiology of human platelets
** R01HL-13629-08 Hemorrhagic diseases (human)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
P50HL-15092-07 0006 Immune and fibrotic response to occupational environments - Immunologic studies in silicosis (human, rabbits, hamsters, guinea pigs)
** R01HL-16603-05 Human and experimental renal diseases (animals)
** R01HL-16757-04 'Autoimmune' thrombocytopenia (monkey)
** P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
R01HL-19018-03 Etiologic factors in cryptogenic fibrosing alveolitis (human)
R01HL-20140-02 Glycoproteins of platelet membrane and platelet function (human)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)
P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
** R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)
R01HL-22582-01 Pulmonary and circulatory alterations induced by IGE
R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)

IMMUNOPATHOLOGY, CHEMOTHERAPY

SEE ALSO IMMUNITY, IMMUNOSUPPRESSIVE AGENTS
SEE ALSO IMMUNOPHARMACOLOGY

P01HL-06312-17 0018 Surgical cardiology - Cardiac transplantation growth (calves)
P01HL-06370-17 0001 Cardiopulmonary and renal pathology research center - The humoral and cellular mechanisms of allograft rejection (monkeys)
R01HL-08696-15 0013 Orthotopic heart transplantation - Transplantation immunology--Cardiac heterotransplantation (rabbits, dogs)
R01HL-08696-15 0014 Orthotopic heart transplantation - Transplantation immunology--Cardiac retransplantation (dogs)
M P01HL-13108-09 Clinical heart transplantation
** P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
** P01HL-13108-09 0015 Clinical heart transplantation - Antithymocyte globulin analysis and clinical effects
P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immune response (dogs)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
P01HL-18646-03 0002 Studies basic to heart transplantation - Detection of rejection (dogs)
P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
R01HL-18731-02 RES stimulating materials in experimental shock (dogs)

IMMUNOPATHOLOGY, DIAGNOSIS*

** R01HL-13885-08 0006 Cystic fibrosis and pulmonary disease - Cell mediated immunity and Pseudomonas infections in cystic fibrosis (human)
R01HL-13885-08 0007 Cystic fibrosis and pulmonary disease - Alveolar macrophage defense mechanism (human, rabbits)
** R01HL-13885-08 0008 Cystic fibrosis and pulmonary disease - Pseudomonas specific activation of alveolar macrophages (human, rabbits)
R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
M P01HL-18646-03 Studies basic to heart transplantation
** P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
** P01HL-18646-03 0002 Studies basic to heart transplantation - Detection of rejection (dogs)
P01HL-18646-03 0003 Studies basic to heart transplantation - Host responses to xenografts (rodents, rabbits)
** P01HL-18646-03 0004 Studies basic to heart transplantation - Presensitization--Detection, incidence and clinical significance
** P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
R01HL-19018-03 Etiologic factors in cryptogenic fibrosing alveolitis (human)
R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)
** R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
** R01HL-19725-03 Complement induced pulmonary injury (dogs, rabbits, sheep)
R01HL-19819-03 Mitogen induced interstitial pneumonitis (rabbits)
R01HL-20002-03 Pulmonary complications of viral infections (children)
R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)

IMMUNOPATHOLOGY, IMMUNE COMPLEX DISEASES (SEE ALSO SPECIFICS)

SEE ALSO IMMUNOPATHOLOGY, AUTOIMMUNE DISORDERS

** R01HL-01803-23 0005 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic and dietary synergy in the pathogenesis of atherosclerosis (rabbits)
** R01HL-10980-11 Ultrastructural renal pathology (human, rats)
P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
P50HL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
P50HL-15389-07 0008 Pulmonary SCOR--Hypersensitivity pneumonitis - Milwaukee patient study--Hypersensitivity pneumonitis
P50HL-15389-07 0011 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits
** P50HL-15389-07 0012 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Immunologic lung disease in guinea pigs
P50HL-15389-07 0017 Pulmonary SCOR--Hypersensitivity pneumonitis - Immunology core (human)
** R01HL-16757-04 'Autoimmune' thrombocytopenia (monkey)
P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
R01HL-19018-03 Etiologic factors in cryptogenic fibrosing alveolitis (human)
R01HL-20095-03 Role of lymphokines and monocytes in lung fibrosis (human, guinea pigs, rats)
** R23HL-21918-01 Hypersensitivity pneumonitis in guinea pigs
** R23HL-22437-01 Leukotactic mediators in lung inflammatory reactions (rats, rabbits, human)

IMMUNOPATHOLOGY, IMMUNOLOGIC DEFICIENCY DISORDERS

SEE ALSO BLOOD AND RE DISORDERS, LEUKOCYTE DISORDERS, PHAGOCYTE DYSFUNCTION (GENERAL)
SEE ALSO IMMUNITY, IMMUNOLOGICAL UNRESPONSIVENESS
SEE ALSO METABOLIC DISORDERS INBORN, ANGIONEUROTIC EDEMA (HEREDITARY)
SEE ALSO METABOLIC DISORDERS INBORN, CHEDIAK-HIGASHI SYNDROME

P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease - Mitogenic and antigenic activation of lymphocyte sub-populations
R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)
R01HL-12833-09 Genetic and environmental influences on lung disease (human)
** P50HL-15092-07 0008 Immune and fibrotic response to occupational environments - Animal models of asbestosis (hamsters)
** P60HL-15160-07 0014 Center for sickle cell disease - Replacement therapy of opsonin deficiency in sickle cell anemia (children)
P60HL-16005-05 0020 Comprehensive sickle cell center - Studies of the immunologic defect in sickle cell anemia (human)
** P60HL-17265-04 0008 Community blood resource center support - Research--Blood genetic markers as biological probes (human)
P50HL-19171-02 0003 Pulmonary SCOR--Lung injury by childhood infections - Natural history, host defense defects--Children with chronic pulmonary disease
** P60HL-23282-01 0002 Comprehensive hospital/community sickle cell center - Clinical evaluation of alternate pathaway of compliment activation

IMMUNOPHARMACOLOGY

SEE ALSO IMMUNOPATHOLOGY, CHEMOTHERAPY

P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-08696-15 D012 Orthotopic heart transplantation Transplantation immunology--Modulation of donor antigenicity (dogs)
** R01HL-18D03-05 Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)
** R01HL-19062-D3 Pharmacologic control of mast cell phosphodiesterase (human, rats)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
RD1HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
R01HL-19819-03 Mitogen induced interstitial pneumonitis (rabbits)
R23HL-21089-02 Localization of mediators in dispersed lung cells (guinea pigs, human)
R01HL-22087-02 Humoral mediators of pulmonary inflammation (guinea pigs)

IMMUNOREGULATORY ALPHA GLOBULIN
SEE IMMUNOLOGY, IMMUNOREGULATORY ALPHA GLOBULIN

IMMUNOSUPPRESSION
SEE IMMUNITY, IMMUNOSUPPRESSION

IMMUNOSUPPRESSIVE AGENTS
SEE IMMUNITY, IMMUNOSUPPRESSIVE AGENTS

IMMUNOSYMPATHECTOMY
SEE NEUROSURGERY, SYMPATHECTOMY, IMMUNOSYMPATHECTOMY

IMMUNOTHERAPY
SEE IMMUNITY, IMMUNIZATION (IMMUNOTHERAPY)

IMP:PYROPHOSPHATE PHOSPHORIBOSYLTRANSFERASE
SEE GLYCOSYLTRANSFERASES, IMP:PYROPHOSPHATE PHOSPHORIBOSYLTRANSFERASE

IMPEDANCE, ELECTRICAL
SEE ELECTRICAL IMPEDANCE

IMPEDANCE, FLUID FLOW
SEE PHYSICAL PROPERTIES, FLUID FLOW IMPEDANCE

IMPLANT COMPATIBILITY
SEE TISSUE COMPATIBILITY-TRANSPLANT, IMPLANT COMPATIBILITY

IMPLANTS
SEE TISSUE COMPATIBILITY-TRANSPLANT, IMPLANT

INAPPROPRIATE ANTIDIURETIC HORMONE SYNDROME
SEE METABOLIC DISORDERS (INBORN), DIABETES INSIPIDUS

INBORN ERRORS OF METABOLISM
SEE METABOLIC DISORDERS INBORN

INBREEDING
SEE GENETICS, POPULATION GENETICS, INBREEDING

INCLUSION BODIES
SEE CELL INCLUSION BODIES

INCOME INSURANCE
SEE SOCIOECONOMICS, FINANCING ORGANIZED, INCOME INSURANCE

INDERAL
SEE NAPHTHYLAMINES, PROPRANDLOL

INDEPENDENCY, EMOTIONAL
SEE PSYCHOLOGY, EMOTIONAL DEPENDENCY-INDEPENDENCY

INDEXING
SEE INFORMATION SYSTEMS, INDEXING

INDIANS, AMERICAN
SEE SOCIAL GROUPS, ETHNIC, AMERICAN INDIANS

INDICATOR DILUTION (CONCENTRATION) TECHNIQUES, CARDIOVASCULAR
SEE CARDIOVASCULAR DISORDERS DIAGNOSIS, INDICATOR DILUTION (CONCENTRATION)*

INDICATORS AND REAGENTS
SEE ALSO CARDIOVASCULAR DISORDERS DIAGNOSIS, INDICATOR DILUTION (CONCENTRATION)*
SEE ALSO DYES
SEE ALSO RADIOTRACER*
** P01HL-16683-04 DD06 Function and growth of cardiac and skeletal muscle - Chemical studies of the contractile system--Development of new reagents
P01HL-17813-D4 0007 Lung disease and the oxygenation of blood and tissue - Studies on the function of myoglobin (dogs)
R01HL-18249-04 Isolation and identification of platelet membrane (human)
P5DHL-19153-D2 00D5 SCOR--Pulmonary edemas--Etiology, pathogenesis - Lung vascular permeability measured by indicator dilution methods (sheep)

INDIUM RADIOISOTOPES (111,113M)
SEE RADIOISOTOPES, INDIUM

INDIVIDUALITY
SEE PSYCHOLOGY, PERSONALITY

INDOCIN
SEE BENZOPYRROLE CARBOXYLIC ACIDS, INDOMETHACIN

INDOCYANINE GREEN
SEE BENZOPYRROLES, INDOCYANINE GREEN

INDOLEAMINES
SEE BENZOPYRROLES, INDOLEAMINES (GENERAL)

INDOLES
SEE BENZOPYRROLES, INDOLES (SEE ALSO APPROPRIATE SPECIFICS UNDER BENZOPYRROLES)

INDOMETHACIN
SEE BENZOPYRROLE CARBOXYLIC ACIDS, INDOMETHACIN

INDUCERS
SEE GENETICS, GENETIC REGULATION, GENETIC INDUCTION-REPRESSION-DEREPRESSION, INDUCERS

INDUSTRIAL HAZARD
SEE OCCUPATIONAL HEALTH, OCCUPATIONAL HAZARDS

INDUSTRIAL HEALTH
SEE OCCUPATIONAL HEALTH

INDUSTRIAL MEDICINE
SEE OCCUPATIONAL HEALTH, INDUSTRIAL MEDICINE

INDUSTRIAL WORKERS
SEE OCCUPATIONS, INDUSTRY

INDUSTRY (OCCUPATIONS)
SEE OCCUPATIONS, INDUSTRY

INERT GAS NARCOSIS
SEE INJURIES, DYSBARISM, INERT GAS NARCOSIS

INERT GASES
SEE GAS ELEMENTS, INERT

INFANT AND MATERNAL CARE
SEE HEALTH CARE SERVICES, MATERNAL AND INFANT CARE

INFANT DIABETES
SEE CARBOHYDRATES METABOLISM DISORDERS, DIABETES, JUVENILE

INFANT HUMAN
SEE CHILDREN, INFANT (BIRTH TO 1 YR)

INFANT MENTAL DEVELOPMENT
SEE CHILD MENTAL DEVELOPMENT

INFANT MORTALITY
SEE CHILDREN, INFANT AND CHILD MORTALITY

INFANT MORTALITY (ANIMAL)
SEE AGE (ANIMAL), INFANTS MORTALITY

INFANT NEWBORN
SEE CHILDREN, INFANT NEWBORN (BIRTH TO 4-6 WKS)

INFANT NEWBORN (ANIMAL)
SEE AGE (ANIMAL), INFANTS NEWBORN

INFANTS OF HIGHER VERTEBRATES
SEE AGE (ANIMAL), INFANTS

INFARCT LIMITING AGENTS, HEART
SEE CARDIOVASCULAR AGENTS, CARDIOTONIC AND CARDIOPROTECTIVE DRUGS (GENERAL)

INFARCTION
SEE CARDIOVASCULAR DISORDERS, INFARCTION

INFECTION MECHANISM
SEE VIRUS DISEASE CHARACTERISTICS, INFECTION MECHANISMS (GENERAL)

INFECTION OF SURGICAL WOUNDS
SEE INJURIES, SURGICAL WOUND INFECTION

INFECTIONS, SECONDARY
SEE COMMUNICABLE DISEASES, INFECTIONS, SECONDARY

INFECTIONS AND CANCER, COMPLICATIONS
SEE NEOPLASMS, CANCER COMPLICATIONS OF, INFECTIONS

INFECTIOUS DISEASES (GENERAL)
SEE COMMUNICABLE DISEASES (GENERAL)

INFECTIOUS DISEASES CONTROL
SEE COMMUNICABLE DISEASE CONTROL

INFECTIOUS HEPATITIS
SEE LIVER DISORDERS, HEPATITIS VIRAL HUMAN

INFLAMMATION
SEE DISEASES, PATHOLOGIC PROCESSES, INFLAMMATION

INFLUENZA
SEE VIRUS DISEASES, MYXOVIRUS, INFLUENZA

INFLUENZA VIRUSES
SEE VIRUSES, MYXOVIRUSES, INFLUENZA VIRUSES

INFORMATION AND COMMUNICATION (GENERAL)
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, MAGNETIC RECORDING SYSTEMS
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, MONITORING DEVICES
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, TELEMEDICINE (GENERAL)
SEE ALSO COMPUTER (GENERAL) INCL COMPUTER DATA PROCESSING (GENERAL)
SEE ALSO EDUCATION, AUDIOVISUAL AND OTHER TRAINING AIDS
SEE ALSO EDUCATION, COMPUTER ASSISTED INSTRUCTION
SEE ALSO EDUCATION, PROGRAMMED INSTRUCTION, TEACHING MACHINES
SEE ALSO OPTICS, PHOTOGRAPHY, CINEMATOGRAPHY*
N01HV-72983-0D Nutrition counseling in hyperlipidemia

INFORMATION AND COMMUNICATION, AUTOMATIC DATA PROCESSING
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED
SEE ALSO COMPUTER (GENERAL) INCL COMPUTER DATA PROCESSING (GENERAL)
SEE ALSO INFORMATION SYSTEMS, INFORMATION RETRIEVAL
SEE ALSO OPTICS, IMAGE PROCESSING ANALYSIS AND DISPLAY*
R01HL-14645-07 Blood flow measurement by ultrasonic catheter tip methods (human, dogs)
P50HL-17648-04 D032 Study of ischemic heart disease - Data management--Statistics and data files
P01HL-18208-D4 00D2 Center for the study of blood cell rheology - Holography of RBC shape (human)
R01HL-18968-03 Computer technology for transaxial tomography
N01HV-32973-12 Coordinating center for collaborative studies on coronary artery surgery

INFORMATION AND COMMUNICATION, CLASSIFICATION (GENERAL)
SEE ALSO BIOLOGY, SYSTEMATIC
SEE ALSO BLOOD GROUPS
SEE ALSO CELL TYPES
SEE ALSO DISEASE CLASSIFICATION
SEE ALSO MICROBIAL IDENTIFICATION AND CLASSIFICATION (TECHNIQUES)
SEE ALSO NEOPLASMS CLASSIFICATION AND STAGING
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, HISTOCOMPATIBILITY TYPING
** R01HL-18850-03 Classification code for Frank orthogonal ECG

INFORMATION AND COMMUNICATION, NOMENCLATURE
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)

INFORMATION AND COMMUNICATION, SYSTEMS ANALYSIS
SEE ALSO MODELS, MATHEMATICAL
** R01HL-14529-07 Systems analysis of baroreflex (dogs)
** R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
P60HL-17292-04 D008 Vermont Lung Center - Respiratory physiology--Teaching, learning and auditing problem-solving skills
P5DHL-17648-04 0032 Study of ischemic heart disease - Data management--Statistics and data files

INFORMATION AND COMMUNICATION, SYSTEMS ANALYSIS, OPERATIONS RESEARCH
** P01HL-09D11-15 0D17 A research and resource program in blood - Operations research laboratory

INFORMATION BANKS
SEE INFORMATION SYSTEMS (INCL BANKS AND CENTERS)

INFORMATION CENTERS
SEE INFORMATION SYSTEMS (INCL BANKS AND CENTERS)

INFORMATION-COMMUNICATION BEHAVIOR, LANGUAGE DEVELOPMENT
P5DHL-19187-02 DD07 Pediatric pulmonary SCOR--Hyaline membrane disease - Follow-up study--Infants with hyaline membrane disease (human)

INFORMATION DISSEMINATION
SEE ALSO EDUCATION, AUDIOVISUAL AND OTHER TRAINING AIDS
SEE ALSO HEALTH RECORDS
SEE ALSO INFORMATION SYSTEMS (INCL BANKS AND CENTERS)
SEE ALSO PUBLICATIONS
N01HB-62963-03 International bone marrow transplant registry
N01HB-62964-D3 International bone marrow transplant registry
R01HL-12715-10 Dynamic cardiovascular measurement using ultrasound
** P60HL-15157-D7 DDD3 Comprehensive center for sickle cell disease - Public education
P6DHL-15158-D7 D027 Comprehensive sickle cell center - Community advisory board--Nancy Cobb house
P60HL-15158-07 D028 Comprehensive sickle cell center - Education
P60HL-1516D-D7 D003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies--Dimensions, effectiveness

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P60HL-15160-07 0017 Center for sickle cell disease - Demonstration-Education, screening, counseling, patient care
P60HL-15169-05 0021 Support for center for sickle cell disease - Multidisciplinary module system for education, screening and counseling
** P60HL-15996-06 0006 Cincinnati comprehensive sickle cell center - Education
P60HL-15999-05 0004 Miami comprehensive sickle cell center - Education, screening and counseling
P60HL-16005-05 0001 Comprehensive sickle cell center - Demonstration--Community service component
P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling
** P60HL-17269-04 0036 National heart and blood vessel research and demonstration center - Public education
P60HL-17269-04 0043 National heart and blood vessel research and demonstration center - Dietary modification--Effect on cardiovascular risk parameters (human)
P60HL-17292-04 0018 Vermont Lung Center - Group patient education--Breathing workshop project
R01HL-22380-01 Detroit hypertension control program

INFORMATION DISSEMINATION, MASS MEDIA

P60HL-15996-06 0006 Cincinnati comprehensive sickle cell center - Education
P60HL-17269-04 0036 National heart and blood vessel research and demonstration center - Public education
** P60HL-17292-04 0020 Vermont Lung Center - Mass information--Education project
** R18HL-21906-01 Stanford five city multifactor risk reduction study

INFORMATION DISSEMINATION, MEETINGS CONFERENCES SYMPOSIA

R01HL-13881-08 The American Red Cross National Fractionation Center
P60HL-15170-05 0003 Support for center for sickle cell anemia - Adult services--Educational programs
** R13HL-22159-01 Conference on non-ventilatory functions of the lungs (New Hampshire)

INFORMATION DISSEMINATION, MEETINGS CONFERENCES SYMPOSIA, INTERNATIONAL

** R13HL-20765-01 Eleventh Princeton Conference on Cerebrovascular Disease (new Jersey)
** R13HL-22068-01 Conference on 'The Internal Environment' (California)
** R13HL-22525-01 International symposium on the diaphragm (Virginia)
** R13HL-23072-01 Gordon Research Conference--Cardiac and skeletal muscle (New Hampshire)

INFORMATION DISSEMINATION, MEETINGS CONFERENCES SYMPOSIA, WORKSHOP

SEE ALSO EDUCATION, TRAINING
P60HL-17292-04 0018 Vermont Lung Center - Group patient education--Breathing workshop project
N01HV-62969-03 Cardiology patient simulator evaluation
** N01HV-72983-00 Nutrition counseling in hyperlipidemia

INFORMATION EXCHANGE

SEE INFORMATION SYSTEMS (INCL BANKS AND CENTERS)

INFORMATION GATHERING (DATA COLLECTION)

SEE ALSO HEALTH RECORDS, CASE HISTORY
SEE ALSO POPULATION SURVEYS
N01HB-62963-03 International bone marrow transplant registry
N01HB-62964-03 International bone marrow transplant registry
** N01HB-62968-07 National blood banking data needs
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
P60HL-17269-04 0043 National heart and blood vessel research and demonstration center - Dietary modification--Effect on cardiovascular risk parameters (human)
R25HL-18414-03 Hypertension--Family strategies for patient adherence
N01HV-22917-11 Lipid research clinic (human)
N01HV-53006-06 Evaluation of model VII left ventricular assist device (human)
N01HV-53027-05 Data coordinating center for the unstable angina pectoris study
** N01HV-62955-04 Data collection in clinical pathology and morbid anatomy (men)
N01HV-62957-05 Coordinating center model for NHLI clinical trials
N01HV-72915-02 Therapy for hypertension in the general population
** N01HV-72984-03 High blood pressure control program (human)
** N01HV-72986-02 High blood pressure control program (human)
** N01HV-72987-02 High blood pressure control program (human)
** N01HV-72989-02 High blood pressure control program (human)
** N01HV-72990-00 High blood pressure control program (human)

INFORMATION GATHERING (DATA COLLECTION), QUESTIONNAIRES

R01HL-16461-05 Late results of valve replacement--Computer analysis (human)
R01HL-18715-02 Hypertension incidence project (human)
P50HL-19171-02 0005 Pulmonary SCOR--Lung injury by childhood infections - Chronic respiratory disease of children in North Carolina
R01HL-20662-02 Physical activity, fitness and epidemiology of CHD
R01HL-22528-02 Early risk predictors for chronic pulmonary disease (human)
N01HR-32900-09 Pilot study to standardize the measurement of 'closing volume' (human)
N01HV-53010-03 NAS-NRC twin registry

INFORMATION GATHERING METHODS EVALUATION-STANDARDS

R01HL-15790-06 Follow-up study of acute coronary heart attacks (human)
P60HL-17292-04 0023 Vermont Lung Center - Health information resources
P50HL-19171-02 0005 Pulmonary SCOR--Lung injury by childhood infections - Chronic respiratory disease of children in North Carolina
R01HL-20637-02 Recovery after heart surgery--Bio-behavioral factors (human)
R01HL-21352-02 Community studies of obstructive lung disease (human)

INFORMATION PROCESSING AND CONTROL (BIOLOGICAL)

SEE ALSO ENDOCRINOLOGY, HORMONAL REGULATION AND CONTROL (MECHANISMS)
SEE ALSO ENZYME FEEDBACK
SEE ALSO GENETICS, GENETIC CODING
SEE ALSO GENETICS, GENETIC REGULATION
SEE ALSO INFORMATION PROCESSING AND CONTROL (NEURAL)
SEE ALSO SENSORY FEEDBACK
R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
R01HL-08634-15 Enzymic cholesterol synthesis (human, rats, protozoa, yeast)
R01HL-09544-12 Biochemistry of contractile proteins (animals)
** P01HL-11310-12 0105 Mechanisms of cardiovascular disease - Biosynthesis of mammalian glycoproteins (rabbits)
** R01HL-12138-08 Nutritional regulation of enzyme activity (rats, human)
R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
** R01HL-13929-06 Single nephron response to chronic obstruction (frogs, rats)
R01HL-15390-12 Regulation of blood flow in the microcirculation
R01HL-16294-04 Effectors of cholesterol synthesis (rats)
R01HL-16606-11 Contraction in heart and other striated muscles (frogs)
R01HL-17372-03 Adenine nucleotide maintenance in the ischemic heart (rats)
R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
R01HL-18426-04 Regulation of renal hemodynamics (dogs)
R01HL-18554-03 Taurine metabolism in mammalian heart (rodents, cattle, swine)
** R01HL-19282-03 Regulation of the activation of human factor X
R01HL-20464-01 Regulation of cardiac and skeletal muscle contraction (mammals)
R01HL-20859-02 Beta adrenergic catecholamine receptor
** R01HL-20905-02 Synthesis of fetal hemoglobin in erythroid cells (sheep, human)
** R23HL-21488-01 Myosin-linked regulation in vertebrate smooth muscle (calf aorta)
** R23HL-21990-01 Accuracy of the ventilatory response to exercise (dogs)
R01HL-22194-02 Allosteric function of platelet contractile proteins (human)
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
R01HL-22812-01 Regulation of hepatic production of HDL (rats)
R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)

INFORMATION PROCESSING AND CONTROL (BIOLOGICAL), HOMEOSTASIS

SEE ALSO BODY FLUID BALANCE, ACID-BASE
SEE ALSO BODY FLUID BALANCE, IONIC
SEE ALSO CELL GROWTH REGULATION
SEE ALSO TEMPERATURE (BODY) REGULATION
R01HL-07723-15 Reflex control of vascular capacitance in shock
** P01HL-11678-11 0040 Cardiovascular dynamics and their control - Control of plasma potassium concentration (dogs)
R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
** R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)
** R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)
** P01HL-14388-07 0153 Regulation of the circulation in pathological states - Subcellular distribution of calcium (rats)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
R01HL-14529-07 Systems analysis of baroreflex (dogs)
R01HL-14967-06 Chemoreceptor function in dynamic ventilatory control (human, dogs)
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
R01HL-15607-06 Physiological control of splanchnic circulation (dogs)
R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
** R01HL-16390-05 Cardiopulmonary control coupling in exercise (dogs)
** R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
R01HL-18351-03 Brain metabolism, acid-base balance, and respiration
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
** P01HL-18708-03 0005 Oxygen, energy and contractility in cardiac tissue - Cytosolic calcium homeostasis and bioenergetics of cardiac tissue (animals)
R01HL-18882-02 Hormones in hypertension (human)
R01HL-19455-03 Role of endothelial cells in vascular permeability (tissue culture)
R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
R01HL-20054-02 Cultured blood vessel cells--Pathophysiology (human, animals)
R01HL-21120-02 Membrane dynamics in alveolar macrophages (rabbits)
** R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
** R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)
R01HL-22069-02 Experimental renal arterial hypertension (dogs)
** R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis

INFORMATION PROCESSING AND CONTROL (NEURAL)

SEE ALSO NEUROPHYSIOLOGY (GENERAL)
SEE ALSO PSYCHOBIOLOGY, PSYCHOPHYSIOLOGY
SEE ALSO SENSORY FEEDBACK
** R01HL-05883-18 0007 Reflex control of resistance and capacitance vessels - Prostaglandins and skeletal muscle blood flow (dogs)
** R01HL-05883-18 0008 Reflex control of resistance and capacitance vessels - Oxygen consumption of the chronically denervated dog heart
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
** P01HL-06835-17 0044 Cardiovascular disease - Baroreceptors in control of blood pressure during sleep (dogs)
P01HL-08682-15 0015 Regulation of the cardiovascular system - Projection of autonomic nerves onto the heart (dog)
** P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
** P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
** R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)
** R01HL-12564-09 Control of respiration and blood gases (human, dog)
R01HL-12647-08 Inactivation of norepinephrine in vascular tissue
** R01HL-13187-09 Central neural control of cardiovascular function (cats)
R01HL-13233-08 Cardiorespiratory control in exercise (human)
** R01HL-13841-16 Respiration during altitude acclimatization (goats, dogs, rats, rabbits)
** R01HL-13888-15 Regulation of respiration
P50HL-14214-07 0027 Newborn lung center for hyaline membrane disease - Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep)
** P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
** P01HL-14388-07 0186 Regulation of the circulation in pathological states - Angiotension in modulation of neurogenic vasoconstriction
** P01HL-14388-07 0187 Regulation of the circulation in pathological states - Histamine and circulatory control

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P01HL-14388-07 0201 Regulation of the circulation in pathological states - Central sympathetic discharge in spontaneously hypertensive rats
** P01HL-14388-07 0202 Regulation of the circulation in pathological states - Development of hypertension in spontaneously hypertensive rats
P01HL-14388-07 0203 Regulation of the circulation in pathological states - Activation of sympathetic nervous systems in spontaneously hyperactive rats
** P01HL-14388-07 0204 Regulation of the circulation in pathological states - Reflex control of vascular resistance in spontaneously hypertensive rats
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
** P01HL-14388-07 0209 Regulation of the circulation in pathological states - Neural regulation of vascular resistance in human hypertension
** P01HL-14414-07 0007 Environmental influences on cardiorespiratory and cellular functions - Neural control of respiration (human, cats)
** P01HL-14414-07 0015 Environmental influences on cardiorespiratory and cellular functions - Control of the cardiovascular system (dogs)
** R01HL-14870-06 Dynamics of oxygen and carbon dioxide regulation (animals)
** R01HL-15469-06 Human ventilatory adaptation (also, dogs, rats)
** R01HL-15805-06 Cerebral arterial tone and reactivity (rabbits)
** R01HL-16430-05 Neural control of respiration (cats)
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
M P01HL-16878-05 Control of ventilation in health and disease
** R01HL-17370-03 Synaptic chemistry and cardioregulation in Limulus
** R01HL-17715-04 Respiratory muscle afferents in respiratory control (cats)
R01HL-17800-04 Pulmonary reflexes--Central pathways (cats, dogs, rabbits)
** R01HL-18085-03 Neural factors in atherogenesis (squirrel monkeys)
R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)
** R01HL-18976-03 Blood pressure control--Relation to behavioral stress (human, dog)
R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
R01HL-19248-03 Breathing pattern variation and mechanical influences
R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)
** R01HL-19410-03 Dynamic interrelations underlying exercise hyperpnea (human)
** R01HL-20384-09 Social stimulation, RNA and cardiovascular disease (animals)
** R01HL-20548-02 Innervation of the lung (rats, monkeys)
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
R01HL-20766-02 Control of circulation in heat stress (baboons)
R01HL-21195-02 Innervation of the heart--Acetylcholine receptors (frogs)
R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)
R01HL-22361-01 Regulation of cardiac adaptation to exercise (rats)
R01HL-22740-01 Behavior and cardiovascular disease--Basic mechanisms (human)
** R23HL-22747-01 Cardiodynamics and hypertension under cerebellar control (dogs)
** R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)

INFORMATION RETRIEVAL
SEE INFORMATION SYSTEMS, INFORMATION RETRIEVAL

INFORMATION SYSTEMS (INCL BANKS AND CENTERS)
SEE ALSO BIOMEDICAL REGISTRIES AND REFERRAL CENTERS
SEE ALSO BIOMEDICAL SYSTEMS AUTOMATED, HEALTH CARE FACILITIES (SYSTEMS) INFORMATION SYSTEMS
SEE ALSO CHEMICAL AND DRUG INFORMATION SYSTEMS
SEE ALSO HEALTH RECORDS
SEE ALSO HEALTH SCIENCES PROFESSIONS, HEALTH SCIENCES MANPOWER DATA AND REGISTRIES
SEE ALSO INFORMATION AND COMMUNICATION, AUTOMATIC DATA PROCESSING
SEE ALSO TISSUE (CELL) CULTURE, CELL CULTURE COLLECTIONS BANKS AND REGISTRIES
** N01HI-72947-01 Coordination center--Coronary intervention
** P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
P01HL-04664-18 0011 Cardiovascular and lung dynamics - Detection of abnormal segments of the human ventricle by measure of asynergy
P01HL-04664-18 0015 Cardiovascular and lung dynamics - Computer system for the cardiovascular laboratory
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
** P50HL-19362-02 0017 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Data management, statistical analysis
N01HV-22913-09 Lipid research clinic
** N01HV-53027-05 Data coordinating center for the unstable angina pectoris study
** N01HV-62941-01 Nutrition coding center for MRFIT and LRC programs
** N01HV-62957-05 Coordinating center model for NHLI clinical trials
** N01HV-72979-01 Therapy to protect ischemic myocardium--Data Center

INFORMATION SYSTEMS, INDEXING
N01HV-62941-01 Nutrition coding center for MRFIT and LRC programs

INFORMATION SYSTEMS, INFORMATION RETRIEVAL
SEE ALSO PUBLICATIONS, LITERATURE SURVEY
P01HL-19717-02 0046 Response of the lung to injury - Bioengineering section
R01HL-19864-03 0002 Blood pressure of children and young adults - Data epidemiology center

INFRARED SPECTROMETRY
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, INFRARED*

INFRARED THERMOGRAPHY
SEE TEMPERATURE MEASUREMENT, THERMOGRAPHY*

INFUSIONS, ARTERIAL
SEE DOSAGE AND ROUTE, INFUSIONS ARTERIAL

INFUSIONS, VENOUS
SEE DOSAGE AND ROUTE, INFUSIONS VENOUS

INHALATION
SEE DOSAGE AND ROUTE, INHALATION
SEE SENSORY DEPRESSION, ANESTHESIA (GENERAL), INHALATION
SEE THERAPY, INHALATION THERAPY

INHALATION ANESTHESIA
SEE SENSORY DEPRESSION, ANESTHESIA (GENERAL), INHALATION

INHALATION DISORDERS FROM NON-ORGANIC POLLUTANTS
SEE RESPIRATORY DISORDERS, ENVIRONMENTAL POLLUTANTS ASSOCIATED

INHALATION THERAPY
SEE THERAPY, INHALATION THERAPY

INHERITED FACTORS IN HYPERTENSION
SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), GENETICS-ASSOCIATED

INHIBITING ANTIBODIES
SEE IMMUNOLOGY, ANTIBODIES, BLOCKING ANTIBODIES

INHIBITORS
SEE CALCIFICATION INHIBITORS (CALCIUM NEGATIVE BALANCE DRUGS)
SEE ENDOCRINOLOGY, HORMONES INHIBITORS
SEE ENZYME INHIBITORS
SEE GROWTH INHIBITORS
SEE NUCLEIC ACIDS INHIBITORS
SEE SULFHYDRYLS INHIBITORS

INJURIES (HAZARDS AND INSULTS)
SEE ALSO ENVIRONMENT, STRESS
SEE ALSO KIDNEY DISORDERS, NEPHROSIS LOWER NEPHRON
SEE ALSO METALS POISONING
M P01HL-06370-17 Cardiopulmonary and renal pathology research center
** P01HL-06370-17 0006 Cardiopulmonary and renal pathology research center - Chemical basis of ultrastructural changes in disease (rats)
** P01HL-06370-17 0015 Cardiopulmonary and renal pathology research center - Pathogenesis of chemically induced tissue injury (rats)
P01HL-15832-06 0002 Chemical-structural predispositions to lung injury - Connective tissue in lung in development and repair of injury (human, rats, mice)
P01HL-15832-06 0010 Chemical-structural predispositions to lung injury - Kinin generating systems in pulmonary disease (human, animals)
P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
** R01HL-16330-06 Aging-tissue injury and repair (rats)
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
P01HL-19717-02 0012 Response of the lung to injury - Connective tissue biochemistry and enzyme injury of the lung (hamsters)
P01HL-20993-02 0006 Population dynamics of arterial cells in atherogenesis - Mechanism of regression of atherosclerosis by diet and injury (swine)
** R01HL-21032-02 Injury, wall thickness, and arterial wall oxygenation (dogs, rabbits)
** R01HL-21038-01 Electrically induced cardiac EM-histochemical changes (animals)

INJURIES, ACCIDENTS, SUFFOCATION
P50HL-14218-07 0017 Pulmonary SCOR-Newborn lung center Transvascular fluid exchange, vasoactive mediators in RDS (sheep, cat)

INJURIES, BACK, SPINAL
R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)

INJURIES, BURNS
R01HL-20218-02 Fibrinogen catabolism and intravascular coagulation (human)
R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)

INJURIES, BURNS, ELECTRICAL
** R01HL-22699-01 Defibrillation electrode studies (dogs, swine)

INJURIES, CHEST
SEE ALSO RESPIRATORY DISORDERS, ATELECTASIS
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)

INJURIES, DYSBARISM
SEE ALSO ENVIRONMENT, ATMOSPHERIC PRESSURE
SEE ALSO ENVIRONMENTAL CHAMBER CONTROLLED, HYPERBARIC FACILITY
SEE ALSO RESPIRATORY GAS LEVELS
SEE ALSO WATER ENVIRONMENT, DIVING AND SWIMMING
M P01HL-07896-15 Environmental biomedical research program
** P01HL-07896-15 0008 Environmental biomedical research program - Otologic studies under hyperbaric conditions (human, animals)
** P01HL-07896-15 0009 Environmental biomedical research program - Decompression sickness and computation of safe diving tables (human, animals)
** P01HL-07896-15 0032 Environmental biomedical research program - Fluorometry study of brain exposed to hyperbaric oxygen (dogs, cats)
** P01HL-07896-15 0050 Environmental biomedical research program - Fundamental decompression concepts using the rat animal model
** P01HL-07896-15 0057 Environmental biomedical research program - Effects of dipyridamole and aspirin on decompression thrombocytopenia (human)
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
P01HL-08899-14 0029 Tolerance to respiratory gases in health and disease - Isobaric gas counter diffusion phenomena (human, pigs)
P01HL-08899-14 0056 Tolerance to respiratory gases in health and disease - Extension of pulmonary oxygen tolerance at increased pressures (animals)
** P01HL-08899-14 0072 Tolerance to respiratory gases in health and disease - Inert gas exchange isobaric gas counterdiffusion and decompression
** P01HL-08899-14 0073 Tolerance to respiratory gases in health and disease - Biophysical mechanisms involved in isobaric gas counterdiffusion syndrome
** P01HL-08899-14 0074 Tolerance to respiratory gases in health and disease - Biomathematical analysis of isobaric gas exchange and bubble formation
** P01HL-08899-14 0075 Tolerance to respiratory gases in health and disease - Gas diffusion rates and bubble formation across membranes (animals)
** P01HL-08899-14 0076 Tolerance to respiratory gases in health and disease - Bubble formation during gas counterdiffusion (hamsters)
** P01HL-08899-14 0077 Tolerance to respiratory gases in health and disease - Isobaric gas supersaturation patterns
** P01HL-08899-14 0078 Tolerance to respiratory gases in health and disease - Isobaric gas counterdiffusion--Sensory, cutaneous and systemic function (animals)
** P01HL-08899-14 0079 Tolerance to respiratory gases in health and disease - Physiological factors in counterdiffusion bubble formation (human, pigs)
** P01HL-08899-14 0080 Tolerance to respiratory gases in health and disease - Dynamic quantitation of continuous isobaric gas embolization
** P01HL-08899-14 0085 Tolerance to respiratory gases in health and disease - Search for gas bubbles in vestibular fluids (animals)
** R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
** R01HL-17503-03 Vascular bubbles in decompression sickness (minipig, dog, goat)
** R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)
** R01HL-22413-01 Enhanced detection of bubbles in Doppler flow signals (human)

INJURIES, DYSBARISM, INERT GAS NARCOSIS
M P01HL-07896-15 Environmental biomedical research program
** P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
** P01HL-07896-15 0030 Environmental biomedical research program - Narcosis caused by inert gases at raised pressures (human, animals)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

M P01HL-08899-14 Tolerance to respiratory gases in health and disease
P01HL-08899-14 0007 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on visual function (human, animals)
** P01HL-08899-14 0064 Tolerance to respiratory gases in health and disease - Narcotic effects of inert gases on functional systems (rats)
** P01HL-08899-14 0065 Tolerance to respiratory gases in health and disease - Adaptation and effects of narcotic gases exposure (human)
** P01HL-08899-14 0066 Tolerance to respiratory gases in health and disease - Neurophysiological effects of inert gases in man
** P01HL-08899-14 0067 Tolerance to respiratory gases in health and disease - Inert gas influences upon visual function in man
** P01HL-08899-14 0072 Tolerance to respiratory gases in health and disease - Inert gas exchange isobaric gas counterdiffusion and decompression
** P01HL-08899-14 0089 Tolerance to respiratory gases in health and disease - Decompression by applications of optimal control theory
R01HL-12564-09 Control of respiration and blood gases (human, dog)
M R01HL-17896-03 Dehydropeptide renin substrates

INJURIES, EYE
** P01HL-08899-14 Tolerance to respiratory gases in health and disease

INJURIES, HEAD AND NECK
SEE ALSO BRAIN INJURY
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)

INJURIES, SCARS
P01HL-03174-23 0007 Mechanisms of acute vascular reaction to injury - Healing of injured myocardium--Basal lamina scaffold (human, rats, dogs)
P01HL-13737-07 0030 Assisted circulation - Myocardial ischemia--Effects of phase-shift balloon pumping (dogs)
** P01HL-13737-07 0038 Assisted circulation - Distinguishing the ischemic ventricle from scarred ventricle by balloon pumping
R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)

INJURIES, SHOCK
SEE ALSO CARDIOVASCULAR DISORDERS, HEMORRAGIC SHOCK
SEE ALSO CARDIOVASCULAR FUNCTION, BLOOD FLOW, REACTIVE HYPEREMIA
SEE ALSO HEART DISORDERS, CARDIOGENIC SHOCK
SEE ALSO HYPERSENSITIVITY, ANAPHYLAXIS
SEE ALSO RESPIRATORY DISORDERS, RESPIRATORY INSUFFICIENCY, SHOCK LUNG
** R01HL-07723-15 Reflex control of vascular capacitance in shock
P01HL-08682-15 0019 Regulation of the cardiovascular system - Hepatic immunophysiology and host-defense in shock (rat, dog, human)
P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
P01HL-11310-12 0067 Mechanisms of cardiovascular disease - Cardiac performance with measured homodynamic variables (human)
** P01HL-11678-11 0043 Cardiovascular dynamics and their control - Basic mechanisms of circulatory shock (dog)
** R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
R01HL-16916-04 0001 The role of albumins in lung water accumulation - Capillary permeability (dogs, human)
P60HL-17269-04 0024 National heart and blood vessel research and demonstration center - Section of experimental cardiovascular surgery--Core facility
** R01HL-17458-04 Renal control of sodium excretion (rats)
R01HL-18002-03 Circulatory shock, trauma and RE-system function (rats)
** R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-20196-02 Regulation of coronary arterial smooth muscle
** R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)

INJURIES, SHOCK ENDOTOXIC
SEE BLOOD TOXICOLOGY, BACTEREMIA-SEPTICEMIA

INJURIES, SHOCK, TOXIC
SEE ALSO BLOOD TOXICOLOGY, BACTEREMIA-SEPTICEMIA
** R01HL-18731-02 RES stimulating materials in experimental shock (dogs)

INJURIES, SURGICAL WOUND INFECTION
R01HL-21632-02 Development of a transcutaneous power transfer system (cattle)

INJURIES, SURGICAL WOUNDS
P01HL-17417-05 0006 Experimental lung transplantation - Bronchial anastomotic problems and increases donor lung availability (dog)
R01HL-22113-02 Micro/macrovasculature in healing of foot lesions (human)

INJURIES, TEMPERATURE DEPENDENT, HEAT INDUCED
SEE ALSO ENVIRONMENT, STRESS, HEAT INDUCED
SEE ALSO INJURIES, BURNS
R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)
R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)
R01HL-20634-01 Blood volume and venous return in thermal strain (human)
R01HL-22699-01 Defibrillation electrode studies (dogs, swine)

INJURIES, TRAUMA
SEE ALSO INJURIES, HEAD AND NECK
SEE ALSO KIDNEY DISORDERS, NEPHROSIS LOWER NEPHRON
SEE ALSO RESPIRATORY DISORDERS, RESPIRATORY INSUFFICIENCY, SHOCK LUNG
P01HL-03174-23 0001 Mechanisms of acute vascular reaction to injury - Response of the vascular intima to injury (human, rats)
** R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
** R01HL-13193-09 Pathophysiology of post-traumatic and shock states (rodents, dogs)
R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)
P50HL-14217-08 0050 Specialized center of research in thrombosis - Electron microscopy section (dogs)
R01HL-16916-04 0001 The role of albumins in lung water accumulation - Capillary permeability (dogs, human)
R01HL-16916-04 0011 The role of albumins in lung water accumulation - Whole body distribution and exchange of albumin (rabbits, human, monkeys)
** P60HL-17265-04 0007 Community blood resource center support - Research--Massive transfusion and trauma (human)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
** R01HL-18002-03 Circulatory shock, trauma and RE-system function (rats)
R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
** P01HL-18576-03 0001 Thrombosis research program project - Platelet damage from physical forces and artificial surfaces (human)
R01HL-18672-03 Dynamic studies of clot structure formation (human)
R23HL-22437-01 Leukotactic mediators in lung inflammatory reactions (rats, rabbits, human)
R01HL-22562-02 Mechanism of cardiac action potential propagation (tunicates)

INJURIES, WOUND HEALING
SEE ALSO GROWTH AND DEVELOPMENT, REGENERATION
** P01HL-03174-23 0007 Mechanisms of acute vascular reaction to injury - Healing of injured myocardium--Basal lamina scaffold (human, rats, dogs)
** P01HL-07896-15 0046 Environmental biomedical research program - Treatment of radiation induced tissue injury by hyperbaric oxygen (human)
** P01HL-11414-11 0037 Thrombosis and atherosclerosis program - Vascular intimal injury and healing (rabbits, rats)
R01HL-14126-17 Effect of function on grafts and implants of collagen (dogs, monkeys)
** P01HL-16387-04 0003 The blood vessel and thrombogenesis - Blood vessel healing (rabbits)
P01HL-17417-05 0006 Experimental lung transplantation - Bronchial anastomotic problems and increases donor lung availability (dog)
** R01HL-17747-04 Endothelial injury and regeneration (rats)
R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
** R01HL-21735-01 Electrophysiology after healed myocardial infarction (cats)
** R01HL-21994-01 Structure and development of regenerating capillaries (rabbits, chick embryo)
** R01HL-22110-02 Healing complications in vascular grafting (dogs)
** R01HL-22113-02 Micro/macrovasculature in healing of foot lesions (human)
P01HL-22602-01 0003 Pathophysiology of the endothelium - Mechanisms of endothelial proliferation (human, animals)

INJURIES, WOUNDS
SEE ALSO INJURIES, SURGICAL WOUNDS
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)

INNER EAR
SEE EAR, LABYRINTH

INNERVATION (GENERAL)
SEE NERVOUS SYSTEM, NERVES, INNERVATION (GENERAL)

INNERVATION HEART
SEE NERVOUS SYSTEM AUTONOMIC, HEART INNERVATION

INOSINE
SEE PURINE NUCLEOSIDES, HYPOXANTHINE NUCLEOSIDES, INOSINE

INOSINE MONOPHOSPHATE
SEE PURINE NUCLEOTIDES, HYPOXANTHINE NUCLEOTIDES, INOSINE MONOPHOSPHATE

INOSITOL
SEE SUGAR ALCOHOLS, HEXITOLS, INOSITOL

INOSITOL PHOSPHATES
SEE SUGAR ALCOHOLS, HEXITOLS, INOSITOL PHOSPHATES

INOTREX
SEE PHENYLALKYLAMINES, CATECHOLAMINES, DOBUTAMINE

INOTROPIC AGENTS NEGATIVE
SEE MUSCLE RELAXANTS

INOTROPIC AGENTS POSITIVE
SEE MUSCLE STIMULANTS

INSECTS BITES STINGS VENOMS
SEE TOXICOLOGY, ANIMAL POISONS, INSECTS BITES STINGS VENOMS

INSOMNIA
SEE NEUROLOGIC MANIFESTATIONS, SLEEP DISORDERS

INSTRUMENTATION CENTERS
SEE BIOMEDICAL ENGINEERING, INSTRUMENTATION CENTERS

INSTRUMENTATION CLINICALLY ORIENTED
SEE BIOMEDICAL ENGINEERING, INSTRUMENTATION CLINICALLY ORIENTED

INSTRUMENTATION NOT CLINICALLY ORIENTED
SEE BIOMEDICAL ENGINEERING, INSTRUMENTATION NOT CLINICALLY ORIENTED

INSULIN
SEE PANCREAS HORMONES, INSULIN

INSULIN INHIBITORS
SEE PANCREAS HORMONES, INSULIN INHIBITORS

INSULIN (RESISTANCE) TOLERANCE
SEE CARBOHYDRATES METABOLISM DISORDERS, DIABETES, INSULIN (RESISTANCE) TOLERANCE

INSURANCE
SEE HEALTH INSURANCE
SEE SOCIOECONOMICS, FINANCING ORGANIZED, INCOME INSURANCE

INTEGRATIVE CONTROL (NEURAL)
SEE INFORMATION PROCESSING AND CONTROL (NEURAL)

INTELLIGENCE
SEE PSYCHOLOGY, PERFORMANCE, INTELLIGENCE

INTELLIGENCE, ARTIFICIAL
SEE COMPUTER, ARTIFICIAL INTELLIGENCE, PATTERN RECOGNITION AND CONTROL SYSTEMS

INTENSIVE CARE UNITS
SEE HOSPITALS, INTENSIVE CARE UNITS

INTERACTIONS
SEE DRUGS AND PHYSICAL AND/OR CHEMICAL AGENTS INTERACTION
SEE DRUGS INTERACTION
SEE PHYSICAL AND/OR CHEMICAL AGENTS INTERACTION (BIOLOGICAL AND ECOLOGICAL)

INTERATOMIC FORCES NONBONDING
SEE MOLECULAR INTERACTIONS NONBONDING

INTERATRIAL AND INTERVENTRICULAR SEPTA
SEE HEART, SEPTUM

INTERCALATED DISCS
SEE HEART, MYOCARDIUM INTERCALATED DISCS

INTERCELLULAR BRIDGES, CONNECTIONS
SEE CELL-CELL INTERACTION, INTERCELLULAR CONNECTIONS-JUNCTIONS

INTERCELLULAR JUNCTIONS
SEE CELL-CELL INTERACTION, INTERCELLULAR CONNECTIONS-JUNCTIONS

INTERCELLULAR SPACE
SEE BODY FLUIDS, EXTRACELLULAR SPACE (COMPARTMENT)

INTERCOSTAL MUSCLES
SEE RESPIRATORY MUSCLES

INTERFEROMETRY
SEE OPTICS, INTERFEROMETRY*

INTERFERON
SEE IMMUNOLOGY, INTERFERON

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

INTERNAL CONTROL (AUTOGENIC CONDITIONING)
SEE PSYCHOLOGY, CONDITIONING, AUTOGENIC AND INTERNAL CONTROL

INTERNAL RESPIRATION
SEE RESPIRATION INTERNAL

INTERNATIONAL HEALTH AND SCIENTIFIC ORGANIZATIONS
SEE HEALTH AND SCIENTIFIC, ORGANIZATIONS, INTERNATIONAL

INTERNATIONAL MEETINGS
SEE INFORMATION DISSEMINATION, MEETINGS CONFERENCES SYMPOSIA, INTERNATIONAL

INTERPERSONAL BEHAVIOR, RELATIONS
SEE PSYCHOLOGY SOCIAL, INTERPERSONAL RELATIONS

INTERSTITIAL PNEUMONIA, ACUTE
SEE RESPIRATORY DISORDERS, PNEUMONIA VIRAL

INTERSTITIAL PNEUMONITIS, ALLERGIC
SEE RESPIRATORY DISORDERS, PNEUMONITIS ALLERGIC INTERSTITIAL

INTERVENTRICULAR HEART BLOCK
SEE HEART DISORDERS, ARRHYTHMIA, HEART BLOCK, BUNDLE BRANCH

INTERVENTRICULAR SEPTUM
SEE HEART, SEPTUM

INTESTINAL DISORDERS
SEE GASTROINTESTINAL DISORDERS, INTESTINAL DISORDERS (GENERAL)

INTESTINAL FLORA (BACTERIA)
SEE BACTERIA, ENTERIC (GENERAL)*

INTESTINAL MUCOSA
SEE GASTROINTESTINAL SYSTEM, INTESTINES, MUCOSA

INTESTINAL VILLI
SEE GASTROINTESTINAL SYSTEM, INTESTINES, MUCOSA, VILLI

INTESTINES
SEE GASTROINTESTINAL SYSTEM, INTESTINES

INTRACARDIAC PRESSURES
SEE HEART FUNCTION, INTRACARDIAC PRESSURE

INTRACARDIAC VOLUME
SEE HEART FUNCTION, INTRACARDIAC VOLUME

INTRACELLULAR FLUID
SEE CELL FLUIDS

INTRACELLULAR MEMBRANES
SEE CELL COMPONENTS, INTRACELLULAR MEMBRANES

INTRACRANIAL PRESSURE
SEE NEUROPHYSIOLOGY, INTRACRANIAL PRESSURE

INTRACRANIAL VENOUS SINUSES
SEE CEREBROVASCULAR SYSTEM, VENOUS SINUSES INTRACRANIAL

INTRATHORACIC PRESSURE
SEE RESPIRATORY FUNCTION, RESPIRATION, THORACIC PRESSURE

INTRAVASCULAR COAGULATION DISSEMINATED
SEE BLOOD COAGULATION DISORDERS, INTRAVASCULAR COAGULATION DISSEMINATED

INTRAVENOUS FEEDING
SEE NUTRITION, DIET SCHEDULE AND ROUTE, PARENTERAL FEEDING

INTRINSIC SURFACE ACTIVITY OF MEMBRANES
SEE MEMBRANE SURFACE (BIOLOGICAL) ACTIVITY (GENERAL)

INULIN
SEE HEXOSANS, LEVANS, INULIN

IN UTERO DIAGNOSIS
SEE PREGNANCY, ANTEPARTUM DIAGNOSIS

INVOLUNTARY MOVEMENTS
SEE NEUROMOTOR DISORDERS

IODINATION-DEIODINATION
SEE HALOGENATION, IODINATION-DEIODINATION

IODINE RADIOISOTOPES (123,124,125,131,132, 133)
SEE RADIOISOTOPES, IODINE

IODO FATTY ACIDS
SEE HALO FATTY ACIDS, IODO FATTY ACIDS

ION BALANCE (BODY FLUIDS)
SEE BODY FLUID BALANCE, IONIC

ION CARRIERS
SEE BIOLOGICAL TRANSPORT, ION EXCHANGE AND TRANSPORT, ION CARRIERS (IONOPHORES)

ION EXCHANGE AND TRANSPORT
SEE BIOLOGICAL TRANSPORT, ION EXCHANGE AND TRANSPORT

ION EXCHANGE CHROMATOGRAPHY
SEE PHYSICAL SEPARATION, CHROMATOGRAPHY, ION EXCHANGE*

ION PUMPS
SEE BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS

ION PUMP INHIBITORS
SEE BIOLOGICAL TRANSPORT, TRANSPORT EFFECTORS

IONIC BONDS
SEE CHEMICAL BONDS, IONIC

IONIC CFM MODEL
SEE BIOLOGICAL TRANSPORT, MEMBRANE MODELS

IONIC CONDUCTANCE CHANNELS
SEE BIOLOGICAL TRANSPORT, MEMBRANE PERMEABILITY AND TRANSPORT

IONIC STRENGTH
SEE ALSO ACIDS-BASES, HYDROGEN-ION CONCENTRATION
R01HL-16927-05 Structure and function of normal and abnormal hemoglobin (human)
P60HL-17269-04 0018 National heart and blood vessel research and demonstration center - Mitochondria and energetics (rabbits, dogs)
P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport
P01HL-20592-02 0012 Cell biology of cardiac and skeletal muscle - Contractile properties of skinned muscle fibers (frogs)
P01HL-20994-02 0009 Dynamics of neutrophil elastase in the lung - Biosynthesis and degradation of elastin in emphysema (human, hamsters)
P01HL-21016-02 0007 Sickle cell anemia and other hemoglobinopathies - Cellular determinants of red cell sickling
** P01HL-21016-02 0009 Sickle cell anemia and other hemoglobinopathies - Nitrogen mustards and their potential use as antisickling agent
R01HL-21312-01 Sarcomere mechanics in disrupted ventricular muscle (guinea pigs)
R01HL-23183-01 Voltage dependent conductance in membranes

IONIZATION
P01HL-12157-11 0038 Functions and mechanisms of cell membrane ion transport - Mechanisms and interactions of gases and ions with bilayer membranes (human)
P60HL-17269-04 0016 National heart and blood vessel research and demonstration center - New analytical methodology for atherosclerosis studies

IONIZING RADIATION
SEE RADIATION, IONIZING RADIATION

IONOPHORES
SEE BIOLOGICAL TRANSPORT, ION EXCHANGE AND TRANSPORT, ION CARRIERS (IONOPHORES)

IONS
SEE ALSO ACIDS-BASES, ISOELECTRIC POINT
SEE ALSO MOLECULAR POLARITY
R01HL-00082-30 Transmembrane movements (barnacles, frogs, rats)
** P01HL-12157-11 0038 Functions and mechanisms of cell membrane ion transport - Mechanisms and interactions of gases and ions with bilayer membranes (human)
R01HL-18004-02 Transport through arterial wall--Biophysical aspects (rabbits)
** R01HL-18199-03 Effects of ions on vascular reactivity
R01HL-20278-02 Cellular mechanisms of renin secretion (rats)
R01HL-21038-01 Electrically induced cardiac EM-histochemical changes (animals)

IONS, ANION
R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
R01HL-08893-14 Structure and function of membrane proteins (human)
** R01HL-09906-13 0022 Membrane transport processes in red blood cells - Anion transport in dog and cat red cells
** R01HL-09906-13 0023 Membrane transport processes in red blood cells - Cation and anion movements in two sub-groups of dog erythrocytes
R01HL-13567-06 Ion transport across cell membranes (human)
R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
R01HL-17411-04 Molecular studies of red blood cell spectrin (human)
R01HL-17828-04 Kinetic studies of hemerythrin reactions (marine worms)
** R01HL-17878-04 Structural studies of the human erythrocyte membrane
R01HL-18619-03 Transferrin iron binding and transport properties (chicken, rabbit, human)
** R01HL-20365-03 Molecular mechanisms of anion transport
** P01HL-20592-02 0003 Cell biology of cardiac and skeletal muscle - Cellular magnesium and anion activities in ion specific microelectrodes (frogs)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
R01HL-21170-01 Molecular structure of human serum transferrin
R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
R01HL-22390-01 Effect of chloride on renin (rats, dogs)

IONS, CATION
R01HL-01813-25 Regulation of metabolism by drugs and hormones (rats)
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)
P01HL-06314-17 0053 Immunologic mechanisms in cardiovascular disease - Cellular functions controlled by cyclic GMP (human, mice, guinea pigs)
P01HL-06314-17 0057 Immunologic mechanisms in cardiovascular disease - Antigens in cardiovascular disease (human)
P01HL-08899-14 0052 Tolerance to respiratory gases in health and disease - Oxygen effects on auditory and vestibular function (human, guinea pigs)
** R01HL-09906-13 0023 Membrane transport processes in red blood cells - Cation and anion movements in two sub-groups of dog erythrocytes
P01HL-11351-12 0001 Cellular and molecular mechanisms of myocardial function - Ionic control of myocardial contractility (animals)
P01HL-11351-12 0010 Cellular and molecular mechanisms of myocardial function - Basic ionic exchange studies (rats)
P01HL-11351-12 0013 Cellular and molecular mechanisms of myocardial function - Ion exchange in the perfused septum high-resolution technique (rabbits, rats)
P01HL-13262-07 0015 Arterial wall in atherosclerosis - Crosslinkage biosynthesis in aortic elastin and collagen (animals)
R01HL-13375-09 Cellular potential changes causing cardiac arrhythmias (dogs)
** R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)
** P01HL-14388-07 0151 Regulation of the circulation in pathological states - Catecholamine release in potassium ion-free contractures in the caudal artery
** P01HL-14388-07 0152 Regulation of the circulation in pathological states - Ion flux alterations in caudal artery in SHR
P01HL-14388-07 0154 Regulation of the circulation in pathological states - Energetics of smooth muscle contraction (rats)
P01HL-14388-07 0172 Regulation of the circulation in pathological states - cAMP-dependent protein kinase from heart and vascular smooth muscle (guinea pigs)
P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
P01HL-15835-06 0021 Study of muscles related to heart disease - Fast kinetic studies in muscle subcellular organelles (animals)
P01HL-16117-05 0007 Ion movements and membranes in cardiovascular control - Physiological and molecular properties of ionophores (dogs, rabbits)
P01HL-16607-05 0001 Calcium ion and control of cardiovascular function - Bilayer lipid membranes, antibiotic probes, and SR function
P01HL-16607-05 0003 Calcium ion and control of cardiovascular function - Calcium transport in sarcoplasmic membranes (animals)
R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)
P01HL-16683-04 0001 Function and growth of cardiac and skeletal muscle - Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)
R01HL-16746-04 Design of ion-selective molecules
P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
R01HL-18003-05 Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18077-04 Smooth muscle cell organization and Ca2O concentration control (chickens)
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-19138-03 Contractile activation of skinned cardiac cells (mammals)
P01HL-19242-02 0009 Study of vascular smooth muscle - Electrophysiology of vascular smooth muscle (rats, chick embryo)
P01HL-19259-03 0004 Digoxin-specific antibody in human therapy - Digitalis-specific antibodies pharmacological studies (human, dogs, sheep)
R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
R01HL-19653-03 Circulatory system effects of angiotensin analogs (rats)
R01HL-19982-02 Blood coagulation--Protein-metal ion-lipid interactions
R01HL-20471-03 Atherosclerosis and diabetes mellitus (human)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
P60HL-20985-01 0004 Northern California sickle cell center - Characterization of irreversibly sickled cells (human)
R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)
** R01HL-21179-01 Volume regulation--Role of the membrane potential (amphiuma)
R23HL-21196-02 Digitalis induced arrhythmia and NAO KO-atpase activity (dogs)
R23HL-21262-02 Sodium-calcium interactions in mammalian myocardium (rabbits, cats)
R01HL-21294-02 Voltage clamp of isolated cardiac Purkinje cells (dogs)
** R01HL-21371-02 Energy loss microanalysis of myocardial cations
R01HL-21493-02 Contractility in cardiac failure (hamsters)
** R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
P01HL-22619-01 0001 Cellular mechanisms of heart failure - Cell membrane isolation and reconstitution (dogs, lambs)
P01HL-22619-01 0002 Cellular mechanisms of heart failure - Structure of sodium, potassium-adenosine triphosphatase (lambs, dogs)
P01HL-22619-01 0004 Cellular mechanisms of heart failure - Mechanism of action of Na, K-ATPase (sheep, cattle)
R01HL-23115-01 Regulation of active sodium transport (frogs, rats)

IONS, CATIONS, DIVALENT

SEE ALSO METALS, DIVALENT METALS
P50HL-14147-08 0003 Specialized center of research in thrombosis - Surface thrombogenicity and phospholipid vesicle physical properties
P01HL-15596-05 0012 Coagulation, fibrinolysis, hemostasis and hepatitis - Platelet function--Phorbol ester and zymosan-induced release activity
R01HL-16101-05 Protein-lipid interaction (bacteria, models)
P01HL-16117-05 0003 Ion movements and membranes in cardiovascular control - Fast kinetic study of calcium membrane interactions
R01HL-20902-02 Studies on marginal band system of erythrocytes (amphibians, reptiles, fish)
R23HL-21213-01 A model for calcium homeostasis in excitable tissue (marine worms)
R01HL-22486-01 Enzyme regulation in cultured arterial cells (swine)

IONS, ELECTROLYTES

SEE ALSO BODY FLUID BALANCE, IONIC
** R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
** R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
R01HL-01486-23 Quantitative study of T-wave mechanisms (human, rabbits, dogs, chickens)
R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
** R01HL-03303-21 Factors regulating electrolyte excretion by the kidney (human, dogs)
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
P01HL-07896-15 0030 Environmental biomedical research program - Narcosis caused by inert gases at raised pressures (human, animals)
** P01HL-08682-15 0036 Regulation of the cardiovascular system - Electrolyte transport in myocardium with hemorrhagic shock (rats)
R01HL-09234-13 Amino acids of contractile proteins of failing hearts (dogs, hamsters)
R01HL-09911-12 Hormonal and dietary modification of NaCl toxicity (rats) mica)
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
R01HL-09921-13 Machanisms related to congestiva heart failura (dogs, human, rat)
** P01HL-11351-12 0018 Cellular and molecular machanisma of myocardial function - Quantitativa localization of alactrolytas in cardiac tissua
P01HL-11678-11 0034 Cardiovascular dynamics and their control - Renal function curves in intact dogs
P50HL-14147-08 0015 Specialized center of research in thrombosis - Charge related properties of phospholipid surfaces in monolayers and vesicles
R01HL-14148-07 0007 The regional circulations - Salivary composition in hypertension (human)
** P01HL-14388-07 0159 Regulation of the circulation in pathological states - Early drug and diet interventions and blood pressure development (rats)
P01HL-14388-07 9003 Regulation of the circulation in pathological states - Electron probe projects
** R01HL-15810-06 Electrolyte physiology and respiratory acid-base (dogs)
R01HL-15852-06 Vascular ion transport and hypertensive mechanisms
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
** R01HL-18891-02 Electrolyte intake and blood pressure in hypertension (human)
R01HL-19139-03 Dispersion of diffusible indicators in the body (human, cats, dogs)
R01HL-19674-02 Electrolyte permeability of single capillaries (frogs)
R01HL-19677-03 Venous structure and function (dogs)
R01HL-19858-03 UMMC--Blood pressure precursors and consequences (human)
R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
R01HL-20206-02 Carbohydrates-nucleotides and adrenergic interactions (rabbits, cats, rats)
R01HL-20211-02 Role of taurine in the heart (dogs, rats, mice)
R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
R01HL-22177-02 Mechanisms of control of pulmonary smooth muscle (dogs)
** R01HL-22281-01 Microprobe analysis and metabolite levels of ischemic mycardium (dogs)
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)
R01HL-22990-01 Angiotensin II receptors--Mechanisms of regulation (rats)

IONS, ELECTROLYTES, NONELECTROLYTES

R01HL-14820-07 Factors affecting physiology of biological membranes (human)

IONS, ELECTROLYTES, POLYELECTROLYTES

P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
P01HL-15596-05 0008 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of antihemophilic factor (human)
P01HL-15596-05 0010 Coagulation, fibrinolysis, hemostasis and hepatitis - Von Willebrand's factor (human)
P01HL-15596-05 0016 Coagulation, fibrinolysis, hemostasis and hepatitis - Hepatitis-B antigen in whole blood, plasma and plasma fractions (human, monkeys)
** N01HV-32950-08 Blood compatible poly-electrolytes

IONS, POLYIONS, POLYANIONS

P01HL-06314-17 0048 Immunologic mechanisms in cardiovascular disease - Pathogenesis of glomerulonephritis (rats, mice)
P01HL-20948-02 0003 Molecular basis of cholesterol metabolism - LOL pathway in vivo (human, rats, guinea pigs)

IRA (IMMUNOREGULATORY ALPHA GLOBULIN)

SEE IMMUNOLOGY, IMMUNOREGULATORY ALPHA GLOBULIN

IRON

SEE ALSO ALBUMINS, CONALBUMIN
SEE ALSO HEME
SEE ALSO HEMOPROTEINS
SEE ALSO METALLOPROTEINS, FERREDOXIN
SEE ALSO METALLOPROTEINS, FERRITIN
SEE ALSO METALLOPROTEINS, HEMERYTHRIN
SEE ALSO METALLOPROTEINS, TRANSFERRIN
SEE ALSO NUTRITION, DIETARY CONSTITUENTS, DIETARY IRON
R01HL-08299-16 Molecular biology of hemerythrin and hemocyanin (invertebrates)
R01HL-13157-09 Molecular oxygen carriers--Synthesis, structure, bonding
R01HL-13237-09 Erythrocytes during early development (human, animals)
R01HL-13412-17 Synthetic oxygen carriers
P01HL-16251-06 0008 Membrane-bound enzymes in heart and other tissuas - Iron-sulfur centers and phospholipids modulation of succinate dehydrogenasa
R01HL-17794-03 Chelating agents as blood substitutes
** R01HL-20996-02 Structural and reactivity of Iron and cobalt complexes
R01HL-21170-01 Molecular structure of human serum transferrin
R01HL-21461-01 Heme group protein interactions in hemoproteins
R01HL-23120-01 Chelating agents as blood substitutes

IRON, FEROXAMINE-DEFEROXAMINE

** R01HL-19898-03 Desferrioxamine therapy in thalassemia (dogs, rats, children)
** R01HL-19946-03 Reduction of iron overload in thalassemia (children, rabbits, dogs, monkeys)
** R01HL-19961-03 Management of hemosiderosis in thalassemia (children, adults)
** R01HL-20000-03 Iron overload in homozygous beta thalassemia (human)
R01HL-20016-03 Chelator development for thalassemia (human, mice, rats, dogs, monkeys)

IRON-BINDING BETA1-GLOBULIN (SERUM)

SEE METALLOPROTEINS, TRANSFERRIN

IRON CHELATION THERAPY

SEE ALSO NUTRITION, DIETARY CONSTITUENTS, DIETARY IRON
** R01HL-17844-04 Artificial blood substitutes--02-binding iron chelates (human, mammals)
** R01HL-19898-03 Desferrioxamine therapy in thalassemia (dogs, rats, children)
** R01HL-19946-03 Reduction of iron overload in thalassemia (children, rabbits, dogs, monkeys)
** R01HL-19961-03 Management of hemosiderosis in thalassemia (children, adults)
** R01HL-20000-03 Iron overload in homozygous beta thalassemia (human)
** R01HL-20016-03 Chelator development for thalassemia (human, mice, rats, dogs, monkeys)
** R01HL-20141-02 Biochemical approaches to management of iron overload (human, sheep, dogs)

IRON CYANIDES

SEE ALSO OXIOOREDUCTASES, D-LACTATE DEHYDROGENASE
P01HL-12157-11 0051 Functions and mechanisms of cell membrane ion transport - Electron transport in the red cell membrane (human, guinea pigs)
R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
R01HL-17828-04 Kinetic studies of hemerythrin reactions (marine worms)

IRON CYANIDES, SODIUM NITROFERRICYANIDE

P01HL-06285-18 0154 Cardiovascular-respiratory physiology and biochemistry - Function and viability of critically ischemic myocardium (dogs)
P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
P01HL-06835-17 0053 Cardiovascular disease - Vasodilating drugs (human)
R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
P01HL-11310-12 0056 Mechanisms of cardiovascular disease - Cardiac output response to blood pressure reduction in infants (human)
P01HL-11310-12 0058 Mechanisms of cardiovascular disease - Oynamic response to vasodilating agents postoperatively (human)
P01HL-11310-12 0062 Mechanisms of cardiovascular disease - Myocardial depressant factor in postoperative cardiac dysfunction (human, dogs)
P01HL-11310-12 0065 Mechanisms of cardiovascular disease - Algorithms for arterial pressure by automatic vasoactive agents control (human)
P01HL-11678-11 0059 Cardiovascular dynamics and their control - Basic hemodynamics (dogs, rats)
R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
R01HL-14127-16 Methemoglobinemia and antihypertensive drugs (cats, mice, rats)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
R01HL-18190-03 Myocardial blood flow in acute myocardial infarction (human, dogs)
R01HL-18537-04 Regional blood flow after acute myocardial injury (dogs)
R01HL-19089-03 Oiastolic properties of the left ventricle (human, dogs)
R01HL-19937-02 Vasodilators in experimental myocardial infarction (dogs)
R01HL-20598-03 The coronary vascular response to ischemia (dogs, pigs)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R01HL-22836-01 Tha spontanaously hypertensiva kidney (rats)

IRON DEFICIENCY ANEMIA CLASSICAL

SEE BLOOO ANO RE OISOROERS, ANEMIA HYPOCHROMIC MICROCYTIC

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

IRON DISORDERS AND IMBALANCES
SEE ALSO BLDDD AND RE DISORDERS, ANEMIA SIDEROBLASTIC
SEE ALSD IRDN CHELATIDN THERAPY
SEE ALSD NUTRITIDN, DIETARY CDNSTITUENTS, DIETARY IRDN
** R01HL-06242-18 Kinetic studies of blood (human)
R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)
** R01HL-18712-03 Iron deficiency-hyperlipidemia in development (rats)

IRON DISORDERS AND IMBALANCES, HEMOSIDEROSIS
SEE ALSD METABDLIC DISORDERS INBDRN, HEMDCHRDMATDSIS
** R01HL-19898-03 Desferrioxamine therapy in thalassemia (dogs, rats, children)
R01HL-19946-03 Reduction of iron overload in thalassemia (children, rabbits, dogs, monkeys)
** R01HL-19961-03 Management of hemosiderosis in thalassemia (children, adults)
R01HL-20000-03 Iron overload in homozygous beta thalassemia (human)
R01HL-20D16-03 Chelator development for thalassemia (human, mice, rats, dogs, monkeys)

IRON DISORDERS AND IMBALANCES, IRON STORAGE DISORDERS (GENERAL)
SEE ALSD IRON DISORDERS AND IMBALANCES, HEMDSIDERDSIS
SEE ALSD METABOLIC DISORDERS INBORN, HEMDCHRDMATDSIS
** R01HL-2D141-02 Biochemical approaches to management of iron overload (human, sheep, dogs)

IRON EXCESS (GENERAL)
SEE IRDN DISORDERS AND IMBALANCES, IRDN STORAGE OISORDERS (GENERAL)

IRON METABOLISM
SEE ALSO NUTRITIDN, DIETARY CDNSTITUENTS, DIETARY IRON
** R01HL-06242-18 Kinetic studies of blood (human)
R01HL-07449-17 Formation and survival of red blood cells (human)
** R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)
** R01HL-18012-04 Cellular defects in nocturnal hemoglobinuria (human)
R01HL-18619-03 Transferrin iron binding and transport properties (chicken, rabbit, human)
R01HL-18712-03 Iron deficiency-hyperlipidemia in development (rats)
** R01HL-19491-03 Mechanism of iron storage and mobilization by ferritin (horse)
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)

IRON OXIDES
R01HL-17543-03 0001 Magnetic tracers for diagnosis of lung disease - Chronic, interstitial lung disease (human, rabbits)
R01HL-17543-03 0002 Magnetic tracers for diagnosis of lung disease - Magnetite as an index of asbestos exposure (human)
R01HL-17543-03 0003 Magnetic tracers for diagnosis of lung disease - Occupationally accumulated magnetite for diagnosis of lung disease (human)
R01HL-17543-03 0004 Magnetic tracers for diagnosis of lung disease - Magnetite retention, distribution, relaxation rate, viscosity (rabbits)
R23HL-19584-01 Alveolar macrophage responses to toxic particle exposure (guinea pigs, human)

IRON STORAGE DISORDERS
SEE IRON DISDRDERS AND IMBALANCES, IRDN STORAGE OISDRDERS (GENERAL)

IRRIGATION (BODY)
SEE THERAPY, LAVAGE

IRRITATION AND IRRITANTS
SEE DISEASES, PATHOLOGIC PRDCESSES, IRRITATIDN (IRRITANTS)

ISCHEMIA
SEE CARDIDVASCULAR DISORDERS, ISCHEMIA

ISCHEMIC BONE NECROSIS
SEE SKELETAL DISDRDERS, BDNE NECROSIS ISCHEMIC

ISOALLOANTIBODIES
SEE TISSUE CDMPATIBILITY-TRANSPLANT, ISDALLOANTIBODIES

ISOALLOANTIGENS
SEE TISSUE CDMPATIBILITY-TRANSPLANT, ISDALLOANTIGENS

ISOALLOIMMUNITY
SEE TISSUE CDMPATIBILITY-TRANSPLANT, ISOALLOIMMUNITY

ISOANTIBODIES
SEE TISSUE CDMPATIBILITY-TRANSPLANT, ISOALLOANTIBOOIES

ISOANTIGENS
SEE TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOANTIGENS

ISOCITRATE DEHYDROGENASE
SEE DXIDDREDUCTASES, ISDCITRATE DEHYDRDGENASE

ISOCYANATES
SEE CYANATES, ISDCYANATES

ISOELECTRIC ANALYSIS, CONDENSATION
SEE PHYSICAL SEPARATIDN, ELECTRDFDCUSING*

ISOELECTRIC FOCUSING, FRACTIONATION, SEPARATION
SEE PHYSICAL SEPARATIDN, ELECTRDFDCUSING*

ISOELECTRIC POINT
SEE ACIDS-BASES, ISDELECTRIC PDINT

ISOENZYMES
SEE ENZYMES, ISDENZYMES

ISOHEMAGGLUTININS
SEE BLOOD GROUPS ISOANTIBODIES

ISOIMMUNITY
SEE TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOIMMUNITY

ISOLATION, SOCIAL, PSYCHOSOCIAL
SEE PSYCHOSDCIAL ISOLATION-DEPRIVATIDN

ISOLATION PERFUSION
SEE DDSAGE AND RDUTE, ISOLATIDN-PERFUSION

ISOLOGOUS TRANSPLANTATION
SEE TISSUE CDMPATIBILITY-TRANSPLANT, TRANSPLANTATIDN HDMDLOGDUS

ISOMERASES
RD1HL-20996-02 Structural and reactivity of iron and cobalt complexes
R01HL-22946-01 Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits)

ISOMERS
SEE CHEMICAL STRUCTURE, ISOMERS

ISOMORPHOUS SUBSTITUTION
SEE CHEMICAL REACTIDNS, SUBSTITUTION, ISDMORPHOUS

ISONIAZID
SEE AZO COMPDUNDS, HYDRAZINES, ISONIAZID

ISONICOTINIC ACID
SEE PYRIDINE CARBOXYLIC ACIDS, ISDNICOTINIC ACID

ISOPRENOIDS
SEE ALKENES, ISOPRENOIDS

ISOPROTERENOL
SEE PHENYLALKYLAMINES, CATECHDLAMINES, ISDPROTERENDL

ISOPTIN
SEE PHENYLALKYLAMINES, VERAPAMIL

ISOQUINOLINES
SEE QUINDLINES, ISOQUINDLINES

ISOSORBIDE DINITRATE
SEE SUGAR ALCDHDLS, HEXITOLS, ISOSORBIDE DINITRATE

ISOSTERIC SITES
SEE CHEMICAL REACTIDN SITES, ISOSTERIC SITES

ISOTOPE EFFECTS (EXCLUDING RADIATION EFFECTS)
** R01HL-22567-01 Validation of a cholesterol absorption method in man

ISOTOPE EFFECTS, RADIOISOTOPES
SEE RADIDISOTOPES

ISOTOPE LABELED, RADIOISOTOPES
SEE RADIOISDTDPES

ISOTOPE LABELED, STABLE CARBON
RD1HL-14680-07 Specific enrichment of myoglobins for carbon 13 NMR (catacea)
P60HL-17269-04 0016 National heart and blood vessel research and demonstration center - New analytical methodology for atherosclerosis studies
P60HL-17269-04 0046 National heart and blood vessel research and demonstration center - Nuclear magnetic resonance laboratory

ISOTOPE (STABLE, LABELED) DIAGNOSIS
SEE RADIDISOTDPE (NUCLEAR) MEDICINE, STABLE (LABELED) ISDTOPE DIAGNOSIS

ISUPREL
SEE PHENYLALKYLAMINES, CATECHOLAMINES, ISDPROTERENOL

JACKBEAN AGGLUTININ (LECTIN)
SEE PLANTS PROTEINS, LECTINS, CONCANAVALIN A

JAPANESE
SEE SOCIAL GROUPS, ETHNIC, ASIANS, JAPANESE

JAPANESE-AMERICANS
SEE SOCIAL GRDUPS, ETHNIC, AMERICANS, JAPANESE-AMERICANS

JAPANESE B ENCEPHALITIS VIRUS
SEE VIRUSES, ARBDVIRUSES B, JAPANESE B ENCEPHALITIS VIRUS

JAUNDICE
SEE ALSD BLDDD AND RE DISDRDERS, ANEMIA HEMDLYTIC
SEE ALSD LIVER DISDRDERS, HEPATITIS SERUM
SEE ALSD LIVER DISDRDERS, HEPATITIS VIRAL HUMAN
R01HL-153D8-07 Assays for peptides of lipoproteins (human)

JAUNDICE EPIDEMIC
SEE LIVER DISDRDERS, HEPATITIS VIRAL HUMAN

JAUNDICE HEMOLYTIC
SEE BLDOD AND RE DISDRDERS, ANEMIA HEMDLYTIC CDNGENITAL (GENERAL)

JAUNDICE HEMOLYTIC HEREDITARY (GENERAL)
SEE BLDDD AND RE DISDRDERS, ANEMIA HEMOLYTIC CDNGENITAL (GENERAL)

JAUNDICE HOMOLOGOUS SERUM
SEE LIVER DISDRDERS, HEPATITIS SERUM

JAUNDICE NEONATAL (TRANSIENT)
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)

JEJUNOCOLOSTOMY
SEE GASTROINTESTINAL SURGERY, ILEAL BYPASS-ILEECTOMY

JEJUNOILEOSTOMY
SEE GASTROINTESTINAL SURGERY, ILEAL BYPASS-ILEECTDMY

JEJUNUM
SEE GASTROINTESTINAL SYSTEM, INTESTINES, SMALL INTESTINE, JEJUNUM

JOB SATISFACTION
SEE OCCUPATIONS, JDB SATISFACTIDN

JUVENILE (ANIMAL)
SEE AGE (ANIMAL), JUVENILE (PDST-INFANCY TO PUBERTY)

JUVENILE (HUMAN)
SEE CHILDREN, ADOLESCENCE (12 TD 21 YRS)

JUVENILE DIABETES
SEE CARBOHYDRATES METABDLISM DISDRDERS, DIABETES, JUVENILE

JUXTAGLOMERULAR APPARATUS
SEE KIDNEY, JUXTAGLOMERULAR APPARATUS

K-CELLS
SEE BLOOD CELLS, T LYMPHDCYTES, KILLER

KALLIDIN
SEE PEPTIDES, VASDACTIVE PEPTIDES, KALLIDIN

KALLIDIN-9
SEE PEPTIDES, VASOACTIVE PEPTIDES, KALLIDIN-9

KALLIKREIN
SEE PEPTIDES, VASOACTIVE PEPTIDES, KALLIKREIN

KALLIKREIN-ASSOCIATED HYPERTENSION
SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), KININS-BRADYKININ-KALLIKREIN-ASSOCIATED

KALLIKREIN INHIBITOR, TRASYLOL
SEE PRDTEASES AND PEPTIDASES, TRASYLOL

KANAMYCIN
SEE ANTIBIOTICS, KANAMYCIN

KARYOTYPES
SEE GENETICS, KARYDTYPES

KERATOHYALIN
SEE ALBUMINOIDS, KERATOHYALIN

KETAMINE
SEE CYCLIC KETONES, CYCLOHEXANDNES, KETAMINE

KETOGLUTARATE DEHYDROGENASE
SEE DXIDDREDUCTASES, DXOGLUTARATE DEHYDROGENASE

KETONE BODIES
SEE ALSD FATTY ACIDS, ACETDACETATES
SEE ALSD FATTY ACIDS, BETA-HYDRDXYBUTYRIC ACID
SEE ALSD HEXOSES, GLUCDNEOGENESIS
RD1HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
R01HL-18089-04 Fatty acid metabolism in heart and its regulation (swine, rats)
R01HL-20388-03 Regulation of protein turnover in diabetic heart (rat)
R01HL-20488-03 Cholesterol metabolism in diabetic man

KETONES (SEE ALSO SPECIFICS)
R01HL-18679-04 Synthetic protease inhibitors

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

KIDNEY

R01HL-01974-24 Ion-pump in the erythrocyte (rabbits, guinea pigs)
R01HL-07723-15 Reflex control of vascular capacitance in shock
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
R01HL-15447-06 Vascular role of prostaglandin and cyclic nucleotides (rats)
** R01HL-18019-04 The endocrine kidney in hypertension (mice)
R01HL-18199-03 Effects of ions on vascular reactivity
P01HL-19737-02 0007 Cellular and molecular aspects of respiratory physiology - Average oxygen tension of tissue using radioisotopes (dogs)
R01HL-20278-02 Cellular mechanisms of renin secretion (rats)
R01HL-20594-02 Renal enzymes that regulate blood pressure (human, rats)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)

KIDNEY, GLOMERULUS

R01HL-01803-23 0001 Arteriosclerosis, glomerulonephritis, rheumatic fever - Post-streptococcal glomerulonephritis (rabbit)
** P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel didease--Cell and matrix response (human, mice)
** R01HL-04300-20 Fine structure of diseased glomeruli (human, rats, dogs)
** P01HL-06314-17 0063 Immunologic mechanisms in cardiovascular disease - Glomerular cells in tissue culture (human)
P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
R01HL-10980-11 Ultrastructural renal pathology (human, rats)
R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
** R01HL-14914-06 Autoregulation of glomerular filtration rate (rats)
** R01HL-19316-03 Study of glomerular permeability (fish, turtle, frog, chordates, crustacea)
R01HL-19463-02 Pathophysiology of acute renal failure (rats)

KIDNEY, JUXTAGLOMERULAR APPARATUS

R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
P01HL-14388-07 0188 Regulation of the circulation in pathological states - Renin-angiotensin system in the sheep fetus
** R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)

KIDNEY, RENAL CORTEX

R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)
R01HL-02986-21 Zonal renal change with potassium deficiency (rats, human)
R23HL-21247-02 Purification of renal renin (human)

KIDNEY, RENAL MEDULLA

** R01HL-02986-21 Zonal renal change with potassium deficiency (rats, human)
** P01HL-06285-18 0200 Cardiovascular-respiratory physiology and biochemistry - Medullary counter-current system (animals)
** R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
** P01HL-11678-11 0064 Cardiovascular dynamics and their control - Renal medulla--Control of renal hemodynamics, electrolyte excretion (dogs)
** R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
R01HL-22563-02 Prostaglandins, the kidney and hypertension (rats)

KIDNEY, RENAL TUBULES

R01HL-02986-21 Zonal renal change with potassium deficiency (rats, human)
** R01HL-13929-06 Single nephron response to chronic obstruction (frogs, rats)
R01HL-14133-08 Intrarenal regulation of sodium reabsorption (dogs, hamsters, rats)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
P01HL-14388-07 0192 Regulation of the circulation in pathological states - Renal tubular secretion of magnesium (rats)
R01HL-16603-05 Human and experimental renal diseases (animals)
P01HL-17871-04 0013 Kidney, sodium, cardiac output, arterioles and hypertension - Perfusion pressure and renal sodium excretion (rats)
R01HL-18097-04 Pathogenesis of acute renal failure (rats)

KIDNEY, RENAL TUBULES, MACULA

R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
R01HL-10612-13 0020 Humoral factors in heart failure and hypertension - The control of renin release in the dog
R01HL-22390-01 Effect of chloride on renin (rats, dogs)

KIDNEY CALCULI

SEE KIDNEY DISORDERS, KIDNEY CALCULI

KIDNEY CELLS

P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)
R01HL-10567-12 Erythropoietin--Immunoassay and characterization (dogs)
R01HL-15567-05 Cardiovascular phosphoinositide metabolism (rats)
R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)

KIDNEY CIRCULATION

SEE ALSO KIDNEY, GLOMERULUS
SEE ALSO KIDNEY-CIRCULATORY DISORDERS
SEE ALSO KIDNEY SURGERY, KIDNEY REVASCULARIZATION
R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
** R01HL-03181-21 0028 Hemodynamics as applied to surgical problems - Extra-renal factors in the hypertension of coarctation (dog)
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
** P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
P01HL-06370-17 0001 Cardiopulmonary and renal pathology research center - The humoral and cellular mechanisms of allograft rejection (monkeys)
** P01HL-06664-17 0010 Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
** R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation of renal function (dogs)
R01HL-10182-13 Circulatory function and electrolytic metabolism (dogs, human)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
** R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
R01HL-10612-13 0020 Humoral factors in heart failure and hypertension - The control of renin release in the dog
** R01HL-10942-09 Study of genetic hypertension in rats
** P01HL-11678-11 Cardiovascular dynamics and their control
** P01HL-11678-11 0051 Cardiovascular dynamics and their control - Transient glomerular filtration dynamics (dogs)
** P01HL-11678-11 0058 Cardiovascular dynamics and their control - Overall control of the circulation--Computer analysis
** P01HL-11678-11 0063 Cardiovascular dynamics and their control - Renin-angiotensin system--Control of renal hemodynamics, electrolyte excretion
** P01HL-11678-11 0064 Cardiovascular dynamics and their control - Renal medulla--Control of renal hemodynamics, electrolyte excretion (dogs)
** P01HL-11678-11 0067 Cardiovascular dynamics and their control - Angiotension II, sodium excretion and renal hemodynamics (dogs)
R01HL-12607-10 Dynamics of pulsatile blood flow (human, dogs, rats)
** R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
R01HL-13323-08 Intrarenal pressure and renal function (human, dogs)
R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
R01HL-13634-08 Renal hypertension in pregnancy (sheep)
R01HL-13917-20 Secretion and effects of adrenal hormones (human, rabbits, sheep)
R01HL-13929-06 Single nephron response to chronic obstruction (frogs, rats)
** R01HL-14148-07 0008 The regional circulations - Renal circulation in hypertensive patients (also dogs)
P50HL-14192-08 0005 Specialized center of research in hypertension - New techniques for recognition of renovascular hypertension (human, dogs)
** P50HL-14192-08 0008 Specialized center of research in hypertension - New radiographic methods--Recognition of renovascular hypertension (human, dog)
R01HL-14306-07 Quantification of arterial pressure control (dogs)
P01HL-14388-07 0190 Regulation of the circulation in pathological states - Mechanisms of the renal actions of aldosterone (rats)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
P01HL-14388-07 0225 Regulation of the circulation in pathological states - Release of renal prostaglandins by saluretic-diuretic agents (dogs)
** R01HL-14944-07 Renal vascular reactivity in hypertensive patient
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
R01HL-16489-04 Renal prostaglandins--Synthesis and function (human, dogs, rats)
R01HL-16496-04 Prostaglandins and renin experimental hypertension (rabbits)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
P01HL-16910-05 0006 Regulation of the peripheral circulation - Regulation of blood flow distribution (baboons, dogs)
P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)
R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
R01HL-17458-04 Renal control of sodium excretion (rats)
R01HL-17781-03 Hypertension, kidney disease and renal lymph (dogs, rats)
M P01HL-17871-04 Kidney, sodium, cardiac output, arterioles and hypertension
** P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
P01HL-17871-04 0010 Kidney, sodium, cardiac output, arterioles and hypertension - Renal prostaglandins metabolism in hypertension (rats, dogs)
** R01HL-17902-04 Mammalian renal microcirculation (hamsters)
** P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
P50HL-18318-03 0013 Pathogenesis and complications of hypertension - Humoral factors and renal function in human hypertension
** R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)
** R01HL-18426-04 Regulation of renal hemodynamics (dogs)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
** R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
R01HL-18875-03 Angiotension, prostaglandins, pressure and the kidney (rats)
R01HL-18882-02 Hormones in hypertension (human)
R01HL-18948-03 Pulseless flow and circulatory assistance (dogs, calves)
P01HL-18974-03 0006 Experimental neurogenic hypertension program - Model of sustained arterial hypertension (cats)
R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
** R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
R01HL-19134-04 Angiotensin, prostaglandins, adrenergic interactions (rats, rabbits)
R01HL-19229-02 Prostaglandins and hypertension (human, rats, dogs, rabbits)
R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
R01HL-19539-03 Pathology of hypertensive-associated arteritis (rabbits)
R01HL-19791-02 Ultrasonic monitoring visceral blood vessels
R01HL-19825-02 Renin-volume interactions in coarctation hypertension (dogs)
** R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood flow in hypertension (rats)
R01HL-20768-02 Mechanisms of circulatory regulation in heart failure (guinea pigs)
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)
** R01HL-20864-01 Postnatal maturation of cardiovascular regulatory system (minipig)
M R01HL-20895-03 Cineangiographic studies of cardiovascular system
R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
R01HL-20895-03 0002 Cineangiographic studies of cardiovascular system - Coronary disease--Regional myocardial blood flow (human, dog)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-20895-03 0007 Cineangiographic studies of cardiovascular system Determinants of collateral formation (dogs, hamsters)
** R01HL-20895-03 0010 Cineangiographic studies of cardiovascular system - Cortical necrosis and acute renal failure (human, dogs, rats, rabbits)
** R01HL-21094-01 Arterial baroreceptors and renal function (dogs)
R01HL-21210-01 Acute renal failure following cardiac surgery (human)
** R01HL-21308-01 Prostaglandins and local control of the circulation (rats, dogs)
** R23HL-21382-02 Effect of pressure on renal blood flow and function (dogs)
** R01HL-21436-02 Autonomic control of renal function (cats)
R01HL-22069-02 Experimental renal arterial hypertension (dogs)
** R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
R01HL-22244-01 Cardiopulmonary bypass and the vascular endothelium (dogs)
R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
R01HL-22418-01 Neural control of cardio-respiratory function (cats)
R23HL-22438-01 The etiology of genetic hypertension (rats)
** R01HL-22482-01 Circulatory hemodynamics and sodium excretion (dogs)
R01HL-22506-01 Hemodynamics of the clinical hypertensions
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)
** R23HL-22728-01 Neural control of renin secretion (dogs)
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)
** R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

KIDNEY CIRCULATION, RENAL ARTERY

R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
P01HL-11678-11 0063 Cardiovascular dynamics and their control - Renin-angiotensin system--Control of renal hemodynamics, electrolyte excretion
P50HL-17648-04 0013 Study of ischemic heart disease - Fate of bypassed and bypassing vessels (dogs)
R01HL-20787-02 Thromboxanes and prostaglandins-- Biochemical pharmacology (rabbits, human)
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)

KIDNEY CIRCULATION, RENAL VEINS

P50HL-17648-04 0013 Study of ischemic heart disease - Fate of bypassed and bypassing vessels (dogs)
R01HL-20787-02 Thromboxanes and prostaglandins-- Biochemical pharmacology (rabbits, human)

KIDNEY-CIRCULATORY DISORDERS

SEE ALSO KIDNEY DISORDERS, GLOMERULONEPHRITIS
SEE ALSO KIDNEY DISORDERS, NEPHROSCLEROSIS
** R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
** P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel didease--Cell and matrix response (human, mice)
R01HL-03181-21 0020 Hemodynamics as applied to surgical problems - Blood flow measurement--Cardiac output and regional flows (dogs)
M P01HL-06314-17 Immunologic mechanisms in cardiovascular disease
P01HL-06314-17 0062 Immunologic mechanisms in cardiovascular disease - Immunologic renal vascular disease (human, animals)
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
P60HL-15160-07 0016 Center for sickle cell disease - Kinin and plasmin system in sickle cell disease (human)
** R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)

KIDNEY-CIRCULATORY DISORDERS, RENAL ARTERY OBSTRUCTION

R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
P01HL-08682-15 0026 Regulation of the cardiovascular system - Hypertension--High renin vs low renin (dog)
** P01HL-11678-11 0060 Cardiovascular dynamics and their control - Salt and water balance in one kidney Goldblatt hypertension (rat)
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
** R01HL-13929-06 Single nephron response to chronic obstruction (frogs, rats)
P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
P50HL-14192-08 0001 Specialized center of research in hypertension - Surgical and medical treatment of renovascular hypertension (human)
** P50HL-14192-08 0002 Specialized center of research in hypertension - Hypertensive patients with renal artery stenosis
P50HL-14192-08 0003 Specialized center of research in hypertension Prostaglandins as mediators of renin secretion (human, dog)
P50HL-14192-08 0005 Specialized center of research in hypertension - New techniques for recognition of renovascular hypertension (human, dogs)
R01HL-14306-07 Quantification of arterial pressure control (dogs)
R01HL-16489-04 Renal prostaglandins--Synthesis and function (human, dogs, rats)
** R01HL-16496-04 Prostaglandins and renin experimental hypertension (rabbits)
P01HL-18575-03 0007 Mechanisms of vascular changes in hypertension - Microscopy of hypertensive arterial lesions (rats)
R01HL-19112-03 Atherosclerosis studies (monkeys)
R01HL-19209-03 Role of AOH in experimental renal hypertension (dogs, rats)
R01HL-19246-03 Regression of cardiac hypertrophy-- Myocardial and renal (human)
P50HL-19362-02 0010 A/S SCOR--Atherosclerosis in nonhuman primates - Antihypertensive therapy-- Atherogenesis in experimental hypertension (baboon)
** R01HL-21092-02 Factors other than renin in renal hypertension (rats)
R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
R01HL-22667-01 Mechanisms of baroreceptor adaptation in hypertension (dogs)
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

KIDNEY-CIRCULATORY DISORDERS, RENAL HYPERTENSION

SEE ALSO ADRENAL GLANDS DISORDERS, ADRENAL HYPERTENSION
SEE ALSO PEPTIDES, VASOACTIVE PEPTIDES, ANGIOTENSIN
SEE ALSO PREGNANCY TOXEMIAS AND HYPERTENSION
** R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
P01HL-03174-23 0013 Mechanisms of acute vascular reaction to injury - Surface morphology of the aorta in normal and injured states (rats, rabbits)
R01HL-03303-21 Factors regulating electrolyte excretion by the kidney (human, dogs)
** R01HL-04300-20 Fine structure of diseased glomeruli (human, rats, dogs)
P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
P01HL-06835-17 0031 Cardiovascular disease - Synthesis of potent antagonist of pressor action of angiotensin II (animals)
** P01HL-06835-17 0034 Cardiovascular disease - Studies of phospholipase A2 in serum (rats, dogs)
P01HL-06835-17 0038 Cardiovascular disease - Effect of chronic administration of angiotensin antagonist (rats)
** P01HL-06835-17 0039 Cardiovascular disease - Reversibility of vascular changes in renal hypertension (rats)
** P01HL-06835-17 0040 Cardiovascular disease - Benign and malignant phase of renal hypertension (dogs)
** P01HL-06835-17 0041 Cardiovascular disease - Cardiac performance in rats with renal hypertension
** P01HL-06835-17 0042 Cardiovascular disease - Myocardial hypertrophy due to renal hypertension (rats)
** P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
** P01HL-06835-17 0060 Cardiovascular disease - Ventricular performance experimental models of arterial hypertension (rats, dogs)
** R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
M P01HL-08682-15 Regulation of the cardiovascular system
P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
** P01HL-08682-15 0026 Regulation of the cardiovascular system - Hypertension--High renin vs low renin (dog)
** P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation of renal function (dogs)
R01HL-08977-14 Quantitation of flow and solute flux in microvessels (cats, rats)
** R01HL-09911-12 Hormonal and dietary modification of NaCl toxicity (rats) mice)
M R01HL-10612-13 Humoral factors in heart failure and hypertension
** R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
R01HL-10612-13 0019 Humoral factors in heart failure and hypertension Pathogenesis of hypertension in the spontaneous hypertensive rat
** R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
** R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
M P01HL-11678-11 Cardiovascular dynamics and their control
** P01HL-11678-11 0001 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (rats, dogs)
P01HL-11678-11 0027 Cardiovascular dynamics and their control - Vasopressin and thirst in control of body fluid volumes and osmolality (dogs)
** P01HL-11678-11 0034 Cardiovascular dynamics and their control - Renal function curves in intact dogs
** P01HL-11678-11 0040 Cardiovascular dynamics and their control - Control of plasma potassium concentration (dogs)
** P01HL-11678-11 0046 Cardiovascular dynamics and their control - Regulation of aldosterone secretion and related factors (dogs)
P01HL-11678-11 0051 Cardiovascular dynamics and their control - Transient glomerular filtration dynamics (dogs)
** P01HL-11678-11 0060 Cardiovascular dynamics and their control - Salt and water balance in one kidney Goldblatt hypertension (rat)
P01HL-11678-11 0063 Cardiovascular dynamics and their control - Renin-angiotensin system--Control of renal hemodynamics, electrolyte excretion
** P01HL-11678-11 0064 Cardiovascular dynamics and their control - Renal medulla--Control of renal hemodynamics, electrolyte excretion (dogs)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
** R01HL-12614-09 Microcirculatory control mechanisms and hypertension (bats, rats)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
** R01HL-13634-08 Renal hypertension in pregnancy (sheep)
** R01HL-13936-06 Microvascular responses in hypertension (human, rats)
R01HL-14133-08 Intrarenal regulation of sodium reabsorption (dogs, hamsters, rats)
** P50HL-14159-08 0008 Specialized center of research in hypertension - Renal function and sodium metabolism in hypertension (rats, human, rabbits)
P50HL-14159-08 0018 Specialized center of research in hypertension - Sympathetic nervous system in hypertension (rats)
P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
P50HL-14159-08 0024 Specialized center of research in hypertension - Core resources (clinical, animal models)
M P50HL-14192-08 Specialized center of research in hypertension
** P50HL-14192-08 0001 Specialized center of research in hypertension - Surgical and medical treatment of renovascular hypertension (human)
** P50HL-14192-08 0002 Specialized center of research in hypertension - Hypertensive patients with renal artery stenosis
** P50HL-14192-08 0003 Specialized center of research in hypertension - Prostaglandins as mediators of renin secretion (human, dog)
P50HL-14192-08 0004 Specialized center of research in hypertension - Isolation and characterization of pure renin (swine, rats, human, rabbits)
** P50HL-14192-08 0005 Specialized center of research in hypertension - New techniques for recognition of renovascular hypertension (human, dogs)
** P50HL-14192-08 0008 Specialized center of research in hypertension - New radiographic methods--Recognition of renovascular hypertension (human, dog)
** R01HL-14306-07 Quantification of arterial pressure control (dogs)
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
** R01HL-14913-06 Hypertension--Genetic influence of kidney (rats)
** R01HL-14944-07 Renal vascular reactivity in hypertensive patient
** R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
** R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
R01HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
R01HL-15839-05 Physiological role of isorenin and kallikrein (animals)
R01HL-16489-04 Renal prostaglandins--Synthesis and function (human, dogs, rats)
** R01HL-16496-04 Prostaglandins and renin experimental hypertension (rabbits)
R01HL-16603-05 Human and experimental renal diseases (animals)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-16658-05 Intrarenal regulation of sodium reabsorption
** R01HL-17243-05 Cause of chronic experimental renal hypertension (dogs, rabbits)
** R01HL-17364-04 'Big renin'–Biochemical and clinical studies (human)
** R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
** R01HL-17458-04 Renal control of sodium excretion (rats)
** R01HL-17781-03 Hypertension, kidney disease and renal lymph (dogs, rats)
M P01HL-17871-04 Kidney, sodium, cardiac output, arterioles and hypertension
** P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
** P01HL-17871-04 0010 Kidney, sodium, cardiac output, arterioles and hypertension - Renal prostaglandins metabolism in hypertension (rats, dogs)
** P01HL-17871-04 0013 Kidney, sodium, cardiac output, arterioles and hypertension - Perfusion pressure and renal sodium excretion (rats)
R01HL-17902-04 Mammalian renal microcirculation (hamsters)
** R01HL-17947-04 Experimental renal and neurogenic hypertension (human, animals)
** R01HL-18019-04 The endocrine kidney in hypertension (mice)
R01HL-18027-03 New vasoactive factors and their role in hypertension (human, dogs, rats)
P50HL-18318-03 0002 Pathogenesis and complications of hypertension - Core experimental animal facility (rats, rabbits)
P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
M P50HL-18323-04 SCOR hypertension center
** P50HL-18323-04 0012 SCOR hypertension center - Renin as a risk factor (human)
** P50HL-18323-04 0037 SCOR hypertension center - Adrenocortical factors in childhood hypertension
P50HL-18323-04 0042 SCOR hypertension center - Blood viscosity and blood volume in hypertensive disease (human, dog)
P50HL-18323-04 0044 SCOR hypertension center - Angiotensin blockade to identify angiotensin II factor in hypertension (human)
M P01HL-18575-03 Mechanisms of vascular changes in hypertension
** P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
** P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
** P01HL-18575-03 0005 Mechanisms of vascular changes in hypertension - Renin synthesis in normotensive and hypertensive pigs (also rats, dogs)
** P01HL-18575-03 0006 Mechanisms of vascular changes in hypertension - Evaluation of arterial compliance in hypertension (human, pigs)
** P01HL-18575-03 0007 Mechanisms of vascular changes in hypertension - Microscopy of hypertensive arterial lesions (rats)
** P01HL-18575-03 0009 Mechanisms of vascular changes in hypertension - Administrative core
** P01HL-18575-03 0010 Mechanisms of vascular changes in hypertension - Hypertensive pig Core
** P01HL-18575-03 0011 Mechanisms of vascular changes in hypertension - Chemistry laboratory core facility
** P01HL-18575-03 0012 Mechanisms of vascular changes in hypertension - Anatomy core facility
** P01HL-18575-D3 0013 Mechanisms of vascular changes in hypertension - Biostatistical core
** R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
R01HL-18624-03 Study of kinins in hypertension and other diseases (human)
** R01HL-18845-D4 Regulation of renal circulation and salt excretion (rats, dogs)
** R01HL-18862-D2 Thirst and its contribution to edema (dogs)
R01HL-18875-D3 Angiotension, prostaglandins, pressure and the kidney (rats)
** R01HL-18893-03 Mechanism of angiotensin action--Role of receptor (rats)
** R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)
R01HL-18976-03 Blood pressure control--Relation to behavioral stress (human, dog)
** R01HL-19112-03 Atherosclerosis studies (monkeys)
** R01HL-19134-D4 Angiotensin, prostaglandins, adrenergic interactions (rats, rabbits)
** R01HL-19144-03 Contraceptive steroids and experimental hypertension (rats)
** R01HL-19209-03 Role of ADH in experimental renal hypertension (dogs, rats)
** P01HL-19242-02 0008 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (rats)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
** P50HL-19362-02 0010 A/S SCOR--Atherosclerosis in nonhuman primates - Antihypertensive therapy--Atherogenesis in experimental hypertension (baboon)
R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
** RD1HL-19428-03 Role of angiotensin sensitivity in renin release (human)
** R01HL-19467-03 Regulation of blood pressure (rats, dogs)
R01HL-19517-03 Synthesis of inhibitors for the study of renal renin (dogs, monkeys)
** R01HL-19539-03 Pathology of hypertensive-associated arteritis (rabbits)
** R01HL-19825-02 Renin-volume interactions in coarctation hypertension (dogs)
** R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
R01HL-20455-03 Role of systemic hypertension on diabetic retinopathy (human)
** R01HL-20594-02 Renal enzymes that regulate blood pressure (human, rats)
** R01HL-20604-03 Sympathectomy--Cardiovascular and molecular pharmacology (animals)
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
** R01HL-21071-02 Mechanisms of hypertension in coarctation of the aorta (dog)
** R01HL-21092-02 Factors other than renin in renal hypertension (rats)
** R01HL-21103-01 Parametric mechanical studies of hypertensive arteries (dogs, rats)
R23HL-21167-02 The electrophysiology of cardiac hypertrophy (rats)
R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
** R01HL-21851-01 Cerebral microcirculation in experimental hypertension (cats, rabbits)
** R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
** R01HL-21877-01 Iso-renins in the hypertensive rat
** R23HL-21901-01 Hypertension, microvascular control and exercise (rats)
** R01HL-21993-01 Hypertensive hypertrophy--Effects of cardiac mechanics (rats)
** R01HL-22069-02 Experimental renal arterial hypertension (dogs)
** R01HL-22216-02 Vascular mechanisms in renal hypertension (dogs)
** R01HL-22261-01 Compliance of fluid spaces in advancing hypertension (rats)
** R01HL-22563-02 Prostaglandins, the kidney and hypertension (rats)
** R01HL-22667-01 Mechanisms of baroreceptor adaptation in hypertension (dogs)
** R23HL-22745-01 Vascular mechanics and structure in hypertension (miniature swine)
** R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)
** R01HL-23600-01 Ions, water, and hypertension (human, dogs, rats)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)

KIDNEY-CIRCULATORY DISORDERS, RENAL ISCHEMIA AND HYPOXIA

M P01HL-06664-17 Cardiopulmonary function in remediable vascular disease
** P01HL-06664-17 001D Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
** P01HL-06664-17 0036 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
** P01HL-D6664-17 0037 Cardiopulmonary function in remediable vascular disease - Salt and water balance of cells and tissues (rabbits)
** P01HL-06835-17 D061 Cardiovascular disease - Studies in renal physiology (human, rats, dogs)
R01HL-13323-08 Intrarenal pressure and renal function (human, dogs)
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
R01HL-17781-03 Hypertension, kidney disease and renal lymph (dogs, rats)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-19791-02 Ultrasonic monitoring visceral blood vessels
R01HL-2D895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
** R01HL-20895-03 0007 Cineangiographic studies of cardiovascular system - Determinants of collateral formation (dogs, hamsters)
** R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)

KIDNEY-CIRCULATORY DISORDERS, RENOPRIVAL HYPERTENSION

SEE ALSD KIDNEY SURGERY, NEPHRECTDMY
R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
R01HL-15808-06 Role of angiotensinogen in hypertension and stroke (human, rabbits)
** P50HL-18323-04 0045 SCOR hypertension center - Laboratory programs--Prorenin (human)

KIDNEY DISORDERS

SEE ALSO CARBDHYDRATES METABOLISM OISOROERS, DIABETIC NEPHROPATHIES
SEE ALSD CAROIOVASCULAR ANO RENAL STUDY SECTION
SEE ALSO KIDNEY-CIRCULATORY DISOROERS
SEE ALSO LIVER OISORDERS, HEPATDRENAL SYNOROME
SEE ALSO METABOLIC DISOROERS INBORN, BARTTER'S SYNDRDME
SEE ALSO METABOLIC DISORDERS (INBORN), RENAL TUBULAR ACIDOSIS
** R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
** R01HL-02986-21 Zonal renal change with potassium deficiency (rats, human)
** R01HL-04300-20 Fine structure of diseased glomeruli (human, rats, dogs)
M P01HL-06370-17 Cardiopulmonary and renal pathology research center
R01HL-10980-11 Ultrastructural renal pathology (human, rats)
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
** P01HL-11678-11 0058 Cardiovascular dynamics and their control - Overall control of the circulation--Computer analysis
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
P01HL-14388-07 0224 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (human)
** R01HL-14720-08 Factors governing the renal excretion of acid (humans, rats)
R01HL-14944-07 Renal vascular reactivity in hypertensive patient
** R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
P60HL-15170-05 0019 Support for center for sickle cell anemia - Renal handling of uric acid in sickle cell anemia (human)
** R01HL-15810-06 Electrolyte physiology and respiratory acid-base (dogs)
** R01HL-16603-05 Human and experimental renal diseases (animals)
R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
R01HL-21159-02 Pathophysiological effects of hypoxia (rats)
R01HL-21644-01 Fibronectin and related glycoproteins (human, rodents)
** R01HL-22939-01 Human kinin and fibrinolytic systems and renal disease (human)

KIDNEY DISORDERS, ANURIA

SEE ALSO KIDNEY OISOROERS, RENAL FAILURE
R01HL-02334-23 Micropuncture study of kidney function (rats, animals)

KIDNEY DISORDERS, ANURIA, OLIGURIA

SEE ALSO KIONEY FUNCTION, ANTIOIURESIS
R01HL-10182-13 Circulatory function and electrolytic metabolism (dogs, human)

KIDNEY DISORDERS, GLOMERULONEPHRITIS

SEE ALSO CARBOHYORATES METABOLISM OISDRDERS, DIABETIC NEPHROPATHIES
SEE ALSO DISEASES, SYNDROMES NDT LISTEO ELSEWHERE, GODDPASTURE'S SYNDRDME
SEE ALSO KIDNEY DISOROERS, NEPHROTIC SYNOROME
M RD1HL-01803-23 Arteriosclerosis, glomerulonephritis, rheumatic fever
** R01HL-D1803-23 00D1 Arteriosclerosis, glomerulonephritis, rheumatic fever - Post-streptococcal glomerulonephritis (rabbit)
** RD1HL-D1803-23 0018 Arteriosclerosis, glomerulonephritis, rheumatic fever - Fetal immunization in pathogenesis of glomerulonephritis in adult (rabbit)
R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
** P01HL-03174-23 DD05 Mechanisms of acute vascular reaction to injury - Renal small vessel didease--Cell and matrix response (human, mice)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-03919-20 The cell suface of streptococci (rats, human)
R01HL-04300-20 Fine structure of diseased glomeruli (human, rats, dogs)
** P01HL-06314-17 0048 Immunologic mechanisms in cardiovascular disease - Pathogenesis of glomerulonephritis (rats, mice)
** P01HL-06314-17 0061 Immunologic mechanisms in cardiovascular disease - Role of viruses in cardiovascular and renal disease (human, mice)
** P01HL-06314-17 0062 Immunologic mechanisms in cardiovascular disease - Immunologic renal vascular disease (human, animals)
R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
R01HL-10980-11 Ultrastructural renal pathology (human, rats)
** R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
** R01HL-16603-05 Human and experimental renal diseases (animals)
R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
R01HL-20218-02 Fibrinogen catabolism and intravascular coagulation (human)

KIDNEY DISORDERS, HYDRONEPHROSIS

R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)

KIDNEY DISORDERS, KIDNEY CALCULI

R01HL-11901-12 0018 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass--Postoperative complications (human)

KIDNEY DISORDERS, KIDNEY NECROSIS

R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
P01HL-06664-17 0037 Cardiopulmonary function in remediable vascular disease - Salt and water balance of cells and tissues (rabbits)
** R01HL-20895-03 0010 Cineangiographic studies of cardiovascular system - Cortical necrosis and acute renal failure (human, dogs, rats, rabbits)

KIDNEY DISORDERS, NEPHRITIS

SEE ALSO KIDNEY DISORDERS, GLOMERULONEPHRITIS
SEE ALSO KIDNEY DISORDERS, PYELONEPHRITIS
P01HL-06314-17 0048 Immunologic mechanisms in cardiovascular disease - Pathogenesis of glomerulonephritis (rats, mice)
P01HL-06314-17 0062 Immunologic mechanisms in cardiovascular disease - Immunologic renal vascular disease (human, animals)
R01HL-14914-06 Autoregulation of glomerular filtration rate (rats)
P01HL-16411-04 0001 Blood systems in coagulation and vessel disease - Molecular studies of the role of complement in blood coagulation (human, rabbits)
R01HL-16490-04 Structural basis of nephron filtration (rats, rabbits)
R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)

KIDNEY DISORDERS, NEPHRITIS INTERSTITIAL

R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)

KIDNEY DISORDERS, NEPHROSCLEROSIS

SEE ALSO CARBOHYDRATES METABOLISM DISORDERS, DIABETIC NEPHROPATHIES
P01HL-08974-14 0028 Natural and experimental atherosclerosis - Geographic pathology of atherosclerosis and coronary heart disease (human)
R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)

KIDNEY DISORDERS, NEPHROSIS

R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)
** R01HL-16490-04 Structural basis of nephron filtration (rats, rabbits)
R01HL-22051-01 Role of angiotensin II in vasopressin release (human)

KIDNEY DISORDERS, NEPHROSIS LOWER NEPHRON

R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
** R01HL-18097-04 Pathogenesis of acute renal failure (rats)
** R01HL-19463-02 Pathophysiology of acute renal failure (rats)

KIDNEY DISORDERS, NEPHROTIC SYNDROME

** R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)
P01HL-06314-17 0048 Immunologic mechanisms in cardiovascular disease - Pathogenesis of glomerulonephritis (rats, mice)
P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
** R01HL-17458-04 Renal control of sodium excretion (rats)
R01HL-19168-03 Biosynthesis of plasma lipoprotein (rats, rabbits)
R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
** R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
** R01HL-21498-02 Pathophysiology of edema (rats, cats)
R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)
P01HL-22619-01 0012 Cellular mechanisms of heart failure - Apolipoproteins in hypertriglyceridemia (human)
P01HL-22633-01 0001 Cellular and molecular biology of lipoprotein metabolism - Secretion of lipoproteins by the perfused liver (rats, rabbits)
** R01HL-23015-01 Mechanisms of hypo-oncotic pulmonary edema (human, dogs)

KIDNEY DISORDERS, PYELONEPHRITIS

R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
R01HL-14914-06 Autoregulation of glomerular filtration rate (rats)
R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)

KIDNEY DISORDERS, RENAL FAILURE

SEE ALSO KIDNEY DISORDERS, NEPHROSIS LOWER NEPHRON
SEE ALSO KIDNEY DISORDERS, UREMIA
SEE ALSO KIDNEY PROSTHESIS, ARTIFICIAL KIDNEY
** R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
** P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel disease--Cell and matrix response (human, mice)
P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
** P01HL-06664-17 0010 Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
** P01HL-11310-12 0084 Mechanisms of cardiovascular disease - Evaluation of cardiac function in chronic renal failure (human)
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
** R01HL-13323-08 Intrarenal pressure and renal function (human, dogs)
R01HL-13929-06 Single nephron response to chronic obstruction (frogs, rats)
R01HL-14148-07 0002 The regional circulations - Catecholamine metabolism in subtypes of hypertension (human, animals)
R01HL-14914-06 Autoregulation of glomerular filtration rate (rats)
** R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
R01HL-17458-04 Renal control of sodium excretion (rats)
** R01HL-17781-03 Hypertension, kidney disease and renal lymph (dogs, rats)
R01HL-17902-04 Mammalian renal microcirculation (hamsters)
P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)
** R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
** R01HL-20895-03 0010 Cineangiographic studies of cardiovascular system - Cortical necrosis and acute renal failure (human, dogs, rats, rabbits)
** R01HL-21210-01 Acute renal failure following cardiac surgery (human)
R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
R23HL-22882-01 Modulation by disease of effect of furosemide in man
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

KIDNEY DISORDERS, RENAL HYPERTROPHY

P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)
P01HL-11678-11 0017 Cardiovascular dynamics and their control - Overall control of circulation--Mathematical analyses
** R01HL-22482-01 Circulatory hemodynamics and sodium excretion (dogs)

KIDNEY DISORDERS, UREMIA

SEE ALSO KIDNEY DISORDERS, RENAL FAILURE
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
P01HL-08899-14 0014 Tolerance to respiratory gases in health and disease - Cellular and renal responses to hypercapnia and hypocapnia (dogs)
** P01HL-11678-11 Cardiovascular dynamics and their control
P01HL-11678-11 0017 Cardiovascular dynamics and their control - Overall control of circulation--Mathematical analyses
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
** R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)
** R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
** R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)

KIDNEY DISORDERS CHEMOTHERAPY

SEE ALSO KIDNEY PHARMACOLOGY
P01HL-06664-17 0010 Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
R01HL-13634-08 Renal hypertension in pregnancy (sheep)
R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
** R01HL-18097-04 Pathogenesis of acute renal failure (rats)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
R01HL-21105-02 Organ specific drugs--Cardiovascular and renal effects (dogs)
R23HL-22882-01 Modulation by disease of effect of furosemide in man

KIDNEY DISORDERS DIAGNOSIS (INCL EXAMS)*

SEE ALSO KIDNEY VISUALIZATION*
R01HL-04300-20 Fine structure of diseased glomeruli (human, rats, dogs)
P01HL-06664-17 0010 Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
** R01HL-10980-11 Ultrastructural renal pathology (human, rats)
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
** R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)
R01HL-19517-03 Synthesis of inhibitors for the study of renal renin (dogs, monkeys)
R01HL-19825-02 Renin-volume interactions in coarctation hypertension (dogs)
R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
** R01HL-22667-01 Mechanisms of baroreceptor adaptation in hypertension (dogs)

KIDNEY EXAMINATIONS

SEE KIDNEY DISORDERS DIAGNOSIS (INCL EXAMS)*

KIDNEY FUNCTION

** R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
** R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)
R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
** P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation of renal function (dogs)
P01HL-08805-15 0006 Regulation of ventilation and pulmonary circulation - Adaptation of lungfish--Estivation
** P01HL-08899-14 0021 Tolerance to respiratory gases in health and disease - Renal oxygen toxicity (dogs)
** R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
P01HL-11678-11 Cardiovascular dynamics and their control
P01HL-11678-11 0017 Cardiovascular dynamics and their control - Overall control of circulation--Mathematical analyses
** R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
** R01HL-13323-08 Intrarenal pressure and renal function (human, dogs)
P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
R01HL-13623-08 Atrial receptors (dogs)
** R01HL-13917-20 Secretion and effects of adrenal hormones (human, rabbits, sheep)
R01HL-13929-06 Single nephron response to chronic obstruction (frogs, rats)
R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)
R01HL-14306-07 Quantitication of arterial pressure control (dogs)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-14388-07 0188 Regulation of the circulation in pathological states - Renin-angiotensin system in the sheep fetus
P01HL-14414-07 0015 Environmental influences on cardiorespiratory and cellular functions - Control of the cardiovascular system (dogs)
R01HL-14560-07 Hypertension produced by sympathetic dysfunction (human, rats)
R01HL-14720-08 Factors governing the renal excretion of acid (humans, rats)
R01HL-17352-03 Physiological regulation during chronic hyperthermia (sheep)
** R01HL-17847-04 Cardiovascular and renal functions of marmots
M P01HL-17871-04 Kidney, sodium, cardiac output, arterioles and hypertension
P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
R01HL-18875-03 Angiotension, prostaglandins, pressure and the kidney (rats)
R01HL-18948-03 Pulseless flow and circulatory assistance (dogs, calves)
R01HL-19246-03 Regression of cardiac hypertrophy--Myocardial and renal (human)
R01HL-19316-03 Study of glomerular permeability (fish, turtle, frog, chordates, crustacea)
R01HL-20895-03 0010 Cineangiographic studies of cardiovascular system - Cortical necrosis and acute renal failure (human, dogs, rats, rabbits)
R01HL-21094-01 Arterial baroreceptors and renal function (dogs)
R01HL-21159-02 Pathophysiological effects of hypoxia (rats)
** R01HL-21210-01 Acute renal failure following cardiac surgery (human)
** R01HL-21351-02 Renal and vascular control by sympathetic ganglia (animals)
R01HL-21435-02 Control, cardiovascular and renal effects of potassium (dogs)
** R01HL-21436-02 Autonomic control of renal function (cats)
R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)

KIDNEY FUNCTION, ANTIDIURESIS

SEE ALSO KIDNEY DISORDERS, ANURIA, OLIGURIA
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)

KIDNEY FUNCTION, ANTIDIURETICS

** P01HL-12738-10 0129 Physiologic pharmacology and its clinical applications - Receptor specificities and metabolism of vasopressin analogs
R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)

KIDNEY FUNCTION, DIURESIS

SEE ALSO CARBOHYDRATES METABOLISM DISORDERS, DIABETES
SEE ALSO KIDNEY FUNCTION, SALURESIS
SEE ALSO METABOLIC DISORDERS (INBORN), DIABETES INSIPIDUS
R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
** P01HL-11678-11 0034 Cardiovascular dynamics and their control - Renal function curves in intact dogs
P01HL-11678-11 0060 Cardiovascular dynamics and their control - Salt and water balance in one kidney Goldblatt hypertension (rat)
P01HL-11678-11 0064 Cardiovascular dynamics and their control - Renal medulla--Control of renal hemodynamics, electrolyte excretion (dogs)
P01HL-11678-11 0065 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (dogs)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
P50HL-14187-07 0005 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary hypertension and cardiac function (dogs, human)
R01HL-14720-08 Factors governing the renal excretion of acid (humans, rats)
R01HL-17407-05 Peripheral circulation and fluid balance (fish, mammals, human)
P50HL-18318-03 0013 Pathogenesis and complications of hypertension - Humoral factors and renal function in human hypertension
R01HL-18426-04 Regulation of renal hemodynamics (dogs)

KIDNEY FUNCTION, DIURETICS

R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
** P01HL-06312-17 0051 Surgical cardiology - Diuretic therapy on myocardial electrolyte composition and water content (human)
P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
P01HL-06835-17 0046 Cardiovascular disease - Renin activity during salt depletion in essential hypertension (human)
P01HL-06835-17 0047 Cardiovascular disease - Spironolactone in primary aldosteroidism (human)
P01HL-06835-17 0049 Cardiovascular disease - Selective hypoaldosteronism (human)
P01HL-06835-17 0059 Cardiovascular disease - Metyrapone-induced hypertension in dog
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
P01HL-12738-10 0129 Physiologic pharmacology and its clinical applications - Receptor specificities and metabolism of vasopressin analogs
** R01HL-13634-08 Renal hypertension in pregnancy (sheep)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
** P01HL-14388-07 0225 Regulation of the circulation in pathological states - Release of renal prostaglandins by saluretic-diuretic agents (dogs)
R01HL-15810-06 Electrolyte physiology and respiratory acid-base (dogs)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
R01HL-18097-04 Pathogenesis of acute renal failure (rats)
** R01HL-18185-04 Cardiac glycosides and diuretics--Role of Na0 pump (dogs)
P50HL-18323-04 0043 SCOR hypertension center - Pharmacology--Renin-aldosterone mechanisms in essential hypertension (human)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
R01HL-19251-03 An index of sympathetic activity in hypertension (rats)
R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
R01HL-20455-03 Role of systemic hypertension on diabetic retinopathy (human)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-21105-02 Organ specific drugs--Cardiovascular and renal effects (dogs)
R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
R01HL-21274-01 Prorenin--Physiological and biochemical analysis (human)
R01HL-21444-02 Pulmonary mechanics during postnatal development (human)
R01HL-21877-01 Iso-renins in the hypertensive rat
R01HL-22506-01 Hemodynamics of the clinical hypertensions
** R01HL-22911-01 Mechanism of clearance of lung edema fluid (dogs)
R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
R01HL-23201-01 Mechanisms of hypertension (human, rats)

KIDNEY FUNCTION, GLOMERULAR FILTRATION

R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
P01HL-06285-18 0196 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Epithelial cell membranes (toads)
P01HL-06285-18 0197 Cardiovascular-respiratory physiology and biochemistry - Microperfusion and micropuncture of renal tubules (hamsters, desert rats)
P01HL-06314-17 0048 Immunologic mechanisms in cardiovascular disease - Pathogenesis of glomerulonephritis (rats, mice)
P01HL-06314-17 0062 Immunologic mechanisms in cardiovascular disease - Immunologic renal vascular disease (human, animals)
** P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
P01HL-06835-17 0061 Cardiovascular disease - Studies in renal physiology (human, rats, dogs)
P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation of renal function (dogs)
R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
** P01HL-11678-11 0051 Cardiovascular dynamics and their control - Transient glomerular filtration dynamics (dogs)
** P01HL-11678-11 0063 Cardiovascular dynamics and their control - Renin-angiotensin system--Control of renal hemodynamics, electrolyte excretion
P01HL-11678-11 0064 Cardiovascular dynamics and their control - Renal medulla--Control of renal hemodynamics, electrolyte excretion (dogs)
P01HL-11678-11 0065 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (dogs)
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
** R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
R01HL-13929-06 Single nephron response to chronic obstruction (frogs, rats)
R01HL-14133-08 Intrarenal regulation of sodium reabsorption (dogs, hamsters, rats)
R01HL-14148-07 0008 The regional circulations - Renal circulation in hypertensive patients (also dogs)
** R01HL-14914-06 Autoregulation of glomerular filtration rate (rats)
P60HL-15170-05 0019 Support for center for sickle cell anemia - Renal handling of uric acid in sickle cell anemia (human)
R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)
R01HL-16489-04 Renal prostaglandins--Synthesis and function (human, dogs, rats)
** R01HL-16490-04 Structural basis of nephron filtration (rats, rabbits)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
R01HL-17458-04 Renal control of sodium excretion (rats)
R01HL-18097-04 Pathogenesis of acute renal failure (rats)
P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
P50HL-18318-03 0013 Pathogenesis and complications of hypertension - Humoral factors and renal function in human hypertension
** R01HL-18426-04 Regulation of renal hemodynamics (dogs)
** R01HL-19316-03 Study of glomerular permeability (fish, turtle, frog, chordates, crustacea)
R01HL-19463-02 Pathophysiology of acute renal failure (rats)
R01HL-19825-02 Renin-volume interactions in coarctation hypertension (dogs)
R01HL-21210-01 Acute renal failure following cardiac surgery (human)
R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
R23HL-21382-02 Effect of pressure on renal blood flow and function (dogs)
R01HL-21436-02 Autonomic control of renal function (cats)
R23HL-22728-01 Neural control of renin secretion (dogs)
** R01HL-22836-01 The spontaneously hypertensive kidney (rats)

KIDNEY FUNCTION, RENAL TUBULAR TRANSPORT

R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
** R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
** R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
P01HL-06285-18 0196 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Epithelial cell membranes (toads)
** P01HL-06285-18 0197 Cardiovascular-respiratory physiology and biochemistry - Microperfusion and micropuncture of renal tubules (hamsters, desert rats)
** P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)
** P01HL-06285-18 0199 Cardiovascular-respiratory physiology and biochemistry - Renal tubular reabsorption of sodium chloride (hamsters, rabbits)
** P01HL-06285-18 0200 Cardiovascular-respiratory physiology and biochemistry - Medullary counter-current system (animals)
** R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
R01HL-13323-08 Intrarenal pressure and renal function (human, dogs)
** R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)
** R01HL-14133-08 Intrarenal regulation of sodium reabsorption (dogs, hamsters, rats)
** P50HL-14159-08 0008 Specialized center of research in hypertension - Renal function and sodium metabolism in hypertension (rats, human, rabbits)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
** P01HL-14388-07 0192 Regulation of the circulation in pathological states - Renal tubular secretion of magnesium (rats)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
R01HL-14720-08 Factors governing the renal excretion of acid (humans, rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P60HL-15170-05 0019 Support for center for sickle cell anemia - Renal handling of uric acid in sickle cell anemia (human)
R01HL-15810-06 Electrolyte physiology and respiratory acid-base (dogs)
** P60HL-16005-05 0019 Comprehensive sickle cell center - Handling of uric acid in sickle cell anemia (human)
R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)
** R01HL-16490-04 Structural basis of nephron filtration (rats, rabbits)
** R01HL-16658-05 Intrarenal regulation of sodium reabsorption
R01HL-17458-04 Renal control of sodium excretion (rats)
P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
P50HL-18318-03 0013 Pathogenesis and complications of hypertension - Humoral factors and renal function in human hypertension
** R01HL-18875-03 Angiotension, prostaglandins, pressure and the kidney (rats)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
** R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
R01HL-19463-02 Pathophysiology of acute renal failure (rats)
R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
R01HL-22390-01 Effect of chloride on renin (rats, dogs)
R23HL-22438-01 The etiology of genetic hypertension (rats)
R01HL-22482-01 Circulatory hemodynamics and sodium excretion (dogs)
** R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R23HL-22882-01 Modulation by disease of effect of furosemide in man
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

KIDNEY FUNCTION, SALURESIS

R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
** R01HL-03303-21 Factors regulating electrolyte excretion by the kidney (human, dogs)
P01HL-06285-18 0199 Cardiovascular-respiratory physiology and biochemistry - Renal tubular reabsorption of sodium chloride (hamsters, rabbits)
P01HL-06285-18 0200 Cardiovascular-respiratory physiology and biochemistry - Medullary counter-current system (animals)
P01HL-08682-15 0026 Regulation of the cardiovascular system - Hypertension--High renin vs low renin (dog)
P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation of renal function (dogs)
R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
R01HL-10612-13 0020 Humoral factors in heart failure and hypertension - The control of renin release in the dog
R01HL-10612-13 0021 Humoral factors in heart failure and hypertension - The control of aldosterone secretion (dogs)
R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
P01HL-11678-11 0040 Cardiovascular dynamics and their control - Control of plasma potassium concentration (dogs)
P01HL-11678-11 0046 Cardiovascular dynamics and their control - Regulation of aldosterone secretion and related factors (dogs)
P01HL-11678-11 0047 Cardiovascular dynamics and their control - Unidentified pituitary factor in regulation of aldosterone secretion (rats)
** P01HL-11678-11 0063 Cardiovascular dynamics and their control - Renin-angiotensin system--Control of renal hemodynamics, electrolyte excretion
** P01HL-11678-11 0064 Cardiovascular dynamics and their control - Renal medulla--Control of renal hemodynamics, electrolyte excretion (dogs)
P01HL-11678-11 0065 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (dogs)
** P01HL-11678-11 0067 Cardiovascular dynamics and their control - Angiotension II, sodium excretion and renal hemodynamics (dogs)
P01HL-12157-11 0058 Functions and mechanisms of cell membrane ion transport - Ionic and osmotic regulation in toadfish--A euryhaline aglomerular teleost
P01HL-12738-10 0129 Physiologic pharmacology and its clinical applications - Receptor specificities and metabolism of vasopressin analogs
** R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
** R01HL-14133-08 Intrarenal regulation of sodium reabsorption (dogs, hamsters, rats)
** P50HL-14159-08 0008 Specialized center of research in hypertension Renal function and sodium metabolism in hypertension (rats, human, rabbits)
P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
P01HL-14388-07 0157 Regulation of the circulation in pathological states - Autoregulation of renal blood flow and distribution in sodium excretion control
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0186 Regulation of the circulation in pathological states - Angiotension in modulation of neurogenic vasoconstriction
P01HL-14388-07 0190 Regulation of the circulation in pathological states - Mechanisms of the renal actions of aldosterone (rats)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
P01HL-14388-07 0213 Regulation of the circulation in pathological states - Regulation of the heart and peripheral circulation in heart failure
** P01HL-14388-07 0222 Regulation of the circulation in pathological states - Renal perfusion pressure in hypertension (rats)
** P01HL-14388-07 0225 Regulation of the circulation in pathological states - Release of renal prostaglandins by saluretic-diuretic agents (dogs)
R01HL-14913-06 Hypertension--Genetic influence of kidney (rats)
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
** R01HL-15839-05 Physiological role of isorenin and kallikrein (animals)
R01HL-16489-04 Renal prostaglandins--Synthesis and function (human, dogs, rats)
** R01HL-16658-05 Intrarenal regulation of sodium reabsorption
** R01HL-17458-04 Renal control of sodium excretion (rats)
R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
** P01HL-17871-04 0013 Kidney, sodium, cardiac output, arterioles and hypertension - Perfusion pressure and renal sodium excretion (rats)
** P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
P50HL-18318-03 0011 Pathogenesis and complications of hypertension - Adrenergic function--Renin and mineralocorticoid activity (human)
** P50HL-18318-03 0013 Pathogenesis and complications of hypertension - Humoral factors and renal function in human hypertension
P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
P50HL-18323-04 0012 SCOR hypertension center - Renin as a risk factor (human)
P50HL-18323-04 0037 SCOR hypertension center - Adrenocortical factors in childhood hypertension
P50HL-18323-04 0044 SCOR hypertension center - Angiotensin blockade to identify angiotensin II factor in hypertension (human)
R01HL-18426-04 Regulation of renal hemodynamics (dogs)
** R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
R01HL-18875-03 Angiotension, prostaglandins, pressure and the kidney (rats)
R01HL-18891-02 Electrolyte intake and blood pressure in hypertension (human)
R01HL-19229-02 Prostaglandins and hypertension (human, rats, dogs, rabbits)
R01HL-19279-03 Intracellular action of aldosterone in hypertension (human, rats)
R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
R01HL-20768-02 Mechanisms of circulatory regulation in heart failure (guinea pigs)
R01HL-21210-01 Acute renal failure following cardiac surgery (human)
** R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
R01HL-21436-02 Autonomic control of renal function (cats)
R01HL-22069-02 Experimental renal arterial hypertension (dogs)
R23HL-22438-01 The etiology of genetic hypertension (rats)
** R01HL-22482-01 Circulatory hemodynamics and sodium excretion (dogs)
** R23HL-22728-01 Neural control of renin secretion (dogs)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

KIDNEY NECROSIS

SEE KIDNEY DISORDERS, KIDNEY NECROSIS

KIDNEY PHARMACOLOGY

SEE ALSO KIDNEY DISORDERS CHEMOTHERAPY
SEE ALSO KIDNEY FUNCTION, ANTIDIURETICS
SEE ALSO KIDNEY FUNCTION, DIURETICS
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
** P01HL-06835-17 0061 Cardiovascular disease Studies in renal physiology (human, rats, dogs)
R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
P01HL-08682-15 0026 Regulation of the cardiovascular system Hypertension--High renin vs low renin (dog)
** R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
P01HL-12738-10 0129 Physiologic pharmacology and its clinical applications - Receptor specificities and metabolism of vasopressin analogs
** R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)
P50HL-14159-08 0008 Specialized center of research in hypertension - Renal function and sodium metabolism in hypertension (rats, human, rabbits)
** P01HL-14388-07 0190 Regulation of the circulation in pathological states - Mechanisms of the renal actions of aldosterone (rats)
P01HL-14388-07 0225 Regulation of the circulation in pathological states - Release of renal prostaglandins by saluretic-diuretic agents (dogs)
R01HL-16489-04 Renal prostaglandins--Synthesis and function (human, dogs, rats)
P01HL-17871-04 0010 Kidney, sodium, cardiac output, arterioles and hypertension - Renal prostaglandins metabolism in hypertension (rats, dogs)
R01HL-17902-04 Mammalian renal microcirculation (hamsters)
** R01HL-18097-04 Pathogenesis of acute renal failure (rats)
P50HL-18318-03 0013 Pathogenesis and complications of hypertension - Humoral factors and renal function in human hypertension
R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)
** P01HL-18575-03 0005 Mechanisms of vascular changes in hypertension - Renin synthesis in normotensive and hypertensive pigs (also rats, dogs)
R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
R01HL-20594-02 Renal enzymes that regulate blood pressure (human, rats)
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)
R01HL-20895-03 0010 Cineangiographic studies of cardiovascular system - Cortical necrosis and acute renal failure (human, dogs, rats, rabbits)
R01HL-21105-02 Organ specific drugs--Cardiovascular and renal effects (dogs)
R01HL-21210-01 Acute renal failure following cardiac surgery (human)
R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
R23HL-22728-01 Neural control of renin secretion (dogs)
R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R23HL-22882-01 Modulation by disease of effect of furosemide in man

KIDNEY PRESERVATION

** P01HL-06835-17 0061 Cardiovascular disease - Studies in renal physiology (human, rats, dogs)
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)

KIDNEY PROSTHESIS, ARTIFICIAL KIDNEY

SEE ALSO BLOOD TREATMENT, HEMODIALYSIS
SEE ALSO KIDNEY DISORDERS, RENAL FAILURE
** R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)

KIDNEY REVASCULARIZATION

SEE KIDNEY SURGERY, KIDNEY REVASCULARIZATION

KIDNEY SURGERY

SEE ALSO KIDNEY PROSTHESIS, ARTIFICIAL KIDNEY
SEE ALSO KIDNEY TRANSPLANTATION
SEE ALSO URINARY TRACT SURGERY
** P50HL-14192-08 0001 Specialized center of research in hypertension - Surgical and medical treatment of renovascular hypertension (human)
** P50HL-14192-08 0002 Specialized center of research in hypertension - Hypertensive patients with renal artery stenosis
R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)

KIDNEY SURGERY, KIDNEY REVASCULARIZATION

P50HL-14192-08 0002 Specialized center of research in hypertension - Hypertensive patients with renal artery stenosis

KIDNEY SURGERY, NEPHRECTOMY

SEE ALSO KIDNEY-CIRCULATORY DISORDERS, RENOPRIVAL HYPERTENSION

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
R01HL-14914-06 Autoregulation of glomerular filtration rate (rats)
R01HL-19539-03 Pathology of hypertensive-associated arteritis (rabbits)
** R01HL-21274-01 Prorenin--Physiological and biochemical analysis (human)
** R01HL-22482-01 Circulatory hemodynamics and sodium excretion (dogs)
R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)
R01HL-22990-01 Angiotensin II receptors--Mechanisms of regulation (rats)

KIDNEY TOXINS, NEPHROTOXINS
R01HL-D2334-23 Micropuncture study of kidney function (rats, animals)

KIDNEY TRANSPLANTATION
SEE ALSD KIDNEY PRESERVATION
R01HL-04300-20 Fine structure of diseased glomeruli (human, rats, dogs)
** P01HL-06312-17 0022 Surgical cardiology - Cardiac transplant--Experimental simultaneous heart and kidney transplant (dogs)
P01HL-06314-17 0061 Immunologic mechanisms in cardiovascular disease - Role of viruses in cardiovascular and renal disease (human, mice)
** P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
PD1HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease - Mitogenic and antigenic activation of lymphocyte sub-populations
M P01HL-06370-17 Cardiopulmonary and renal pathology research center
** P01HL-06370-17 0001 Cardiopulmonary and renal pathology research center - The humoral and cellular mechanisms of allograft rejection (monkeys)
** P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
P01HL-06835-17 0061 Cardiovascular disease - Studies in renal physiology (human, rats, dogs)
R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
R01HL-08696-15 0004 Orthotopic heart transplantation - Transplantation immunology--Avian antibody studies (chickens, rats, rabbits)
P01HL-11310-12 0084 Mechanisms of cardiovascular disease - Evaluation of cardiac function in chronic renal failure (human)
R01HL-13323-08 Intrarenal pressure and renal function (human, dogs)
R01HL-13408-05 Environmental-genetic interactions in hypertension (rats)
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
R01HL-14913-06 Hypertension--Genetic influence of kidney (rats)
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
R01HL-16603-05 Human and experimental renal diseases (animals)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
R01HL-17902-04 Mammalian renal microcirculation (hamsters)
R01HL-17947-04 Experimental renal and neurogenic hypertension (human, animals)
M PD1HL-18646-03 Studies basic to heart transplantation
** P01HL-18646-03 0D01 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
P01HL-18646-03 D0D2 Studies basic to heart transplantation - Oetection of rejection (dogs)
** P01HL-18646-03 DD04 Studies basic to heart transplantation - Presensitization--Detection, incidence and clinical significance
** P01HL-18646-03 D006 Studies basic to heart transplantation - Reduction or elimination of existing presensitization (human, animals)
P01HL-18646-03 D009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
RD1HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)
R01HL-21274-01 Prorenin--Physiological and biochemical analysis (human)

KIDNEY VISUALIZATION*
** P50HL-14192-08 D008 Specialized center of research in hypertension - New radiographic methods--Recognition of renovascular hypertension (human, dog)

KILLER LYMPHOCYTES
SEE BLOOD CELLS, T LYMPHOCYTES, KILLER

KIMMELSTIEL-WILSON DISEASE
SEE CARBOHYDRATES METABOLISM DISOROERS, OIABETIC NEPHROPATHIES

KINESTHESIS
SEE SENSORY-PERCEPTUAL PROCESSES, PROPRIOCEPTION

KINETICS (CHEMISTRY)
SEE CHEMICAL REACTIONS (DYNAMICS)

KININ, PLASMA
SEE PEPTIOES, VASOACTIVE PEPTIDES, KALLIDIN

KININ-ASSOCIATED HYPERTENSION
SEE CAROIOVASCULAR OISORDERS, HYPERTENSION (SYSTEMIC), KININS-BRADYKININ-KALLIKREIN-ASSOCIATED

KININOGENIN
SEE PEPTIDES, VASOACTIVE PEPTIOES, KALLIKREIN

KINKY HAIR SYNDROME
SEE METABOLIC DISORDERS INBORN, KINKY HAIR SYNDROME

KNEE
SEE SKELETAL SYSTEM, JOINT, KNEE

KORNBERG'S DARK REPAIR ENZYME
SEE NUCLEIC ACIDS REPAIR, ONA REPAIR (ENZYME)

KREBS CYCLE
SEE TRICARBOXYLIC ACIDS, KREBS CYCLE

KREBS-HENSELEIT CYCLE
SEE AMINO ACIDS, UREA CYCLE

KUPFFER CELLS
SEE LIVER CELLS, KUPFFER CELLS

KVEIM FACTOR
SEE NEOPLASMS RELATED INTEREST, SARCOIOOSIS, KVEIM FACTOR

KYPHOSIS
SEE SKELETAL OISOROERS, SPINAL CURVATURES, KYPHDSIS

LABILE COMPONENT
SEE BLOOD COAGULATION, FACTOR V

LABILE FACTOR OF QUICK
SEE BLOOO COAGULATION, FACTOR V

LABOR COMPLICATIONS
SEE PREGNANCY OISORDERS, LABOR COMPLICATIONS

LABORATORY (BIOMEDICAL) DATA COMPUTER PROCESSING
SEE BIOMEOICAL SYSTEMS AUTOMATEO, COMPUTER PROCESSING OF LABORATORY OATA (GENERAL)

LABORATORY DIAGNOSTIC ERRORS
SEE OIAGNOSTIC QUALITY-STANDAROS

LABORATORY FACILITIES
SEE BIOMEOICAL FACILITIES

LABYRINTH
SEE EAR, LABYRINTH

LABYRINTHINE FLUIDS
SEE EAR, LABYRINTHINE FLUIOS

LACCASE
SEE OXYGENASES, MONOPHENOL MONOOXYGENASE

LACTAMS
SEE NITROARYLS, LACTAMS (GENERAL)

LACTATE DEHYDROGENASE
SEE OXIDOREDUCTASES, LACTATE OEHYDROGENASE

D-LACTATE DEHYDROGENASE
SEE OXIDOREDUCTASES, D-LACTATE DEHYORDGENASE

D-LACTATE FERRICYANIDE OXIDOREDUCTASE
SEE OXIDOREDUCTASES, D-LACTATE DEHYOROGENASE

D-LACTATE:NAD OXIDOREDUCTASE
SEE OXIDOREOUCTASES, D-LACTATE DEHYOROGENASE

LACTATES
SEE FATTY ACIDS, LACTATES

LACTATION
SEE REPRODUCTIVE SYSTEM FEMALE, MAMMARY GLANOS, LACTATION

LACTIC DEHYDROGENASE AGENT
SEE VIRUSES, TOGAVIRUSES, RILEY VIRUS

LACTOGENIC HORMONE (PITUITARY)
SEE PITUITARY-OIENCEPHALDN HORMONES, PROLACTIN

LACTONES
SEE OXOARYLS, LACTONES

LACTOPEROXIDASE
SEE PEROXIDASES, LACTOPEROXIDASE

LACTOSE INTOLERANCE
SEE METABOLIC DISORDERS INBORN, OISACCHARIDE (OLIGOSACCHARIDE) INTOLERANCE

O-LACTOSYL CERAMIDE
SEE GLYCOSPHINGOLIPIOS, CERAMIOE DIHEXOSIDES

LACTOYL-GLUTATHIONE LYASE
SEE CARBON-SULFUR LYASES, GLYOXALASE I

LAGOMORPHS
SEE MAMMALS, LAGOMORPHS*

LAGOTHRIX
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), NEW WORLO MONKEYS (PLATYRHINES)*

LANGUAGE DEVELOPMENT
SEE INFORMATION-COMMUNICATION BEHAVIOR, LANGUAGE OEVELOPMENT

LANGURS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHRDPOIDS, NDN-HUMAN), DLD WORLD MDNKEYS (CATARRHINES)*

LANOSTEROL
SEE CHDLESTANE SERIES, LANOSTEROL

LANTHANIDE SERIES
SEE METALS, RARE EARTHS

LANTHANUM
SEE METALS, RARE EARTHS, LANTHANUM

LARGE LYMPHOCYTE DEPENDENT IMMUNE SYSTEM
SEE IMMUNITY, HUMORAL IMMUNITY

LARVA OF ANIMALS
SEE AGE (ANIMAL), IMMATURE, LARVA

LARYNGEAL NERVES
SEE NERVDUS SYSTEM, CRANIAL NERVES, LARYNGEAL NERVES

LARYNGOTRACHEITIS
SEE RESPIRATORY OISOROERS, LARYNGOTRACHEITIS

LARYNX
SEE RESPIRATORY SYSTEM, LARYNX

LASER MICROPROBE EMISSION SPECTROGRAPH
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, LASER*

LASER SPECTROMETRY
SEE CHEMISTRY, ANALYTICAL METHOOS, SPECTROMETRY, LASER*

LASERS
SEE OPTICS, LASERS*

LATENT VIRUS DISEASES
SEE VIRUS OISEASE CHARACTERISTICS, LATENT OORMANT OR SLOW

LATERALIZATION
SEE BRAIN INTERHEMISPHERIC ACTIVITY, CEREBRAL DOMINANCE

LATHYRISM
SEE TOXICOLOGY, PLANT POISONING, LATHYRISM

LAVAGE
SEE THERAPY, LAVAGE

LAXATIVES
SEE GASTROINTESTINAL AGENTS, LAXATIVES

LCAT DEFICIENCY
SEE METABOLIC DISOROERS INBORN, LCAT OEFICIENCY

LDL (LIPOPROTEINS)
SEE LIPDPROTEINS BLDOD, LDL

LEAD (COMPOUNDS)
SEE METALS, HEAVY METALS, LEAO

LEAD POISONING
SEE METALS POISONING, LEAD POISONING

LEARNING
SEE PSYCHOLDGY, LEARNING

LEARNING TRANSFER
SEE PSYCHOLDGY, LEARNING, TRANSFER

LECITHIN:CHOLESTEROL ACYLTRANSFERASE DEFICIENCY FAMILIAL
SEE METABOLIC DISOROERS INBDRN, LCAT DEFICIENCY

LECITHIN-CHOLESTEROL TRANSESTERASES
SEE TRANSACYLASES, LECITHIN-CHOLESTEROL TRANSESTERASES

LECITHINASE A
SEE PHOSPHOLIPASE, LECITHINASE A

LECITHINASE C
SEE PHOSPHOLIPASE, PHOSPHATIDYLCHOLINE CHOLINEPHOSPHOHYDROLASE

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

ECITHINASE D
SEE PHOSPHOLIPASE, PHOSPHATIOYLCHOLINE PHOSPHATIOOHYOROLASE

ECITHINS
SEE PHOSPHOLIPIOS, PHOSPHOGLYCERIOES, LECITHINS

ECTINS
SEE PLANTS PROTEINS, LECTINS

EECHES
SEE HELMINTHS, ANNELIOS, LEECHES

EG
SEE SKELETAL SYSTEM, LIMB, LEG

EGAL MEDICINE
SEE HEALTH SOCIAL CONTROL

EGISLATION
SEE HEALTH SOCIAL CONTROL

EISURE (ACTIVITIES)
SEE OCCUPATIONS, LEISURE

ENS
SEE EYE, LENS

ENS OPACITY
SEE EYE OISOROERS, LENS OISOROERS, CATARACT

ETHALS
SEE GENETICS, GENES, GENE EXPRESSION, LETHALS

EUCINE
SEE AMINO ACIOS, LEUCINE

EUKAPHERESIS
SEE BLOOO TREATMENT, LEUKAPHERESIS

EUKEMIA
SEE NEOPLASMS OF BLOOO ANO RE SYSTEM, LEUKEMIA

EUKEMIA ACUTE
SEE NEOPLASMS OF BLOOO ANO RE SYSTEM, LEUKEMIA ACUTE

EUKEMIA CHRONIC
SEE NEOPLASMS OF BLOOO ANO RE SYSTEM, LEUKEMIA CHRONIC

EUKEMIA MOUSE VIRUSES
SEE VIRUSES, ONCORNA, LEUKEMIA MOUSE

EUKEMIA MYELOID
SEE NEOPLASMS OF BLOOO ANO RE SYSTEM, LEUKEMIA MYELOIO

EUKEMIA VIRUSES (MOUSE)
SEE VIRUSES, ONCORNA, LEUKEMIA MOUSE

EUKO-AGGLUTININS
SEE IMMUNOLOGY, ANTIBOOIES, HEMAGGLUTININS, LEUKO-AGGLUTININS

EUKOCYTE ANTIGENS
SEE TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOANTIGENS, LEUKOCYTE

EUKOCYTE DISORDERS
SEE BLOOO ANO RE OISOROERS, LEUKOCYTE OISOROERS

EUKOCYTE PRESERVATION
SEE BLOOO PRESERVATION, LEUKOCYTE PRESERVATION

EUKOCYTE TRANSFER FACTOR
SEE HYPERSENSITIVITY, TRANSFER FACTOR (HYPERSENSITIVITY)

EUKOCYTE TRANSFUSION
SEE BLOOO TRANSFUSION, LEUKOCYTE TRANSFUSION

EUKOCYTE TYPING
SEE TISSUE COMPATIBILITY-TRANSPLANT, HISTOCOMPATIBILITY TYPING, LEUKOCYTE TYPING

EUKOCYTES
SEE BLOOO CELLS, LEUKOCYTES

EUKOCYTOSIS
SEE BLOOO ANO RE OISOROERS, LEUKOCYTE OISOROERS, LEUKOCYTOSIS

EUKOENCEPHALOPATHIES (GENERAL)
SEE NERVOUS OISOROERS, MYELINOPATHIES (GENERAL)

EUKOPENIA
SEE BLOOO AND RE OISOROERS, LEUKOCYTE OISOROERS, LEUKOPENIA

EUKOPOIESIS
SEE BLOOO ANO RE SYSTEM, HEMATOPOIESIS, LEUKOPOIESIS

EUKOTAXIC FACTOR
SEE HYPERSENSITIVITY, LYMPHOKINES, LEUKOTAXIC FACTOR

EVAMISOLE
SEE IMIOAZOLES, LEVAMISOLE

EVARTERENOL
SEE PHENYLALKYLAMINES, CATECHOLAMINES, NOREPINEPHRINE

LEVULINIC ACID
SEE FATTY ACIOS, LEVULINIC ACIO

LEVULOSE
SEE HEXOSES, FRUCTOSE

LH RELEASING FACTOR
SEE PITUITARY-OIENCEPHALON HORMONES, LH RELEASING FACTOR

LIBRIUM
SEE AZEPINES, OIAZEPINES, CHLOROIAZEPOXIOE

LIDOCAINE
SEE PHENYLAMIOES, LIOOCAINE

LIFE CYCLE
SEE BIOLOGY, LIFE CYCLE

LIFE EXPECTANCY
SEE AGING, LONGEVITY

LIFE HISTORY
SEE BIOLOGY, LIFE CYCLE

LIFE STYLE
SEE PSYCHOLOGY, PERSONALITY, LIFE STYLE

LIGANDS
SEE METAL COMPLEXES, LIGANOS

LIGASES
SEE ALSO CARBON-CARBON LIGASES
SEE ALSO NUCLEIC ACIOS REPAIR, ONA REPAIR (ENZYME)
R01HL-02212-23 Coagulation of blood (human)
R01HL-03299-21 Oietary effects on cholesterol metabolism (rats, rabbits)
R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
R01HL-18259-03 Controlled intratissue release of prostaglandins
R01HL-18682-03 Protein kinase and cholesterol metabolism in aorta (rabbits)
** R01HL-20794-02 Prostaglandin synthesis in human platelets (also in sheep, rabbit)
R01HL-22664-01 Regulation of myocardial cell growth (rats, guinea pigs)
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

LIGASES, FATTY ACID SYNTHETASE COMPLEX
** R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)

LIGHT
SEE PHOTOBIOLOGY
SEE PHOTOCHEMISTRY
SEE PHOTOTHERAPY

LIGHT SCATTERING
SEE OPTICS, LIGHT SCATTERING*

LIGNOCERCIC ACID
SEE FATTY ACIOS, TETRACOSANOIC ACIO

LIMBIC SYSTEM
SEE BRAIN, LIMBIC SYSTEM

LIMBS
SEE SKELETAL SYSTEM, LIMB

LIMBS MOVEMENT
SEE SKELETAL MOVEMENT, LIMBS MOVEMENT

LIMIT DEXTRINOSIS
SEE METABOLIC OISOROERS INBORN, GLYCOGENOSIS, TYPE III

LINC COMPUTERS
SEE COMPUTER, ON-LINE COMPUTERS*

LINEAR ACCELERATORS
SEE RAOIATION, PARTICLE ACCELERATORS

LINIMENTS
SEE OOSAGE FORMS

LINKAGE
SEE GENETIC MAPPING, LINKAGE

LINOLEATE:OXYGEN OXIDOREDUCTASE
SEE OXYGENASES, LIPOXYGENASE

LINOLEIC ACID
SEE FATTY ACIOS, LINOLEIC ACIO

LINOLENIC ACID
SEE FATTY ACIDS, LINOLENIC ACIO

LIPASE
SEE LIPASES, TRIACYLGLYCEROL LIPASE

LIPASES
SEE ALSO PHOSPHOLIPASE
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
P01HL-08214-15 0027 Chemical and biological properties of lipids - Biological functions diol lipids (swine, rats, plants)
** P01HL-08214-15 0041 Chemical and biological properties of lipids - Physico-chemical regulation of enzymes in lipid metabolism
** P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
** R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
P50HL-15062-07 0007 Study of lipoproteins, artery wall, and atherosclerosis - Physical chemistry of lipid-protein interaction (human)
R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)
** R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)
R01HL-19181-02 Regulation of heart cAMP-dependent protein kinase (rodents)
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LOL pathway in cell lines with informative properties other than fibroblasts
R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)

LIPASES, LIPOPROTEIN LIPASE
SEE ALSO LIPASES, TRIACYLGLYCEROL LIPASE
R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
P01HL-06285-18 0203 Cardiovascular-respiratory physiology and biochemistry - Pathways of lipid transport in the blood (animals)
P01HL-06285-18 0204 Cardiovascular-respiratory physiology and biochemistry - Lipoprotein lipase and triglyceride transport in chylomicrons (guinea pig, rat)
** P01HL-06285-18 0205 Cardiovascular-respiratory physiology and biochemistry - Assimilation of cholesterol in chylomicrons and VLOL (rabbits)
R01HL-10933-13 Fat metabolism and atherosclerosis (rabbits, cattle, human, rats)
P01HL-11310-12 0103 Mechanisms of cardiovascular disease - Heparin--Metabolism and function
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
** R01HL-13626-06 Lipoprotein lipase and lipoprotein removal (human, rats, bacteria)
P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
P50HL-14230-07 0096 A/S SCOR--Lipids, atherosclerosis and thrombosis - Ultrastructural studies of endothelial cells (human)
P50HL-14237-07 0001 Support for arteriosclerosis center - Role of apolipoproteins in lipoprotein catabolism (human, rats)
** P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
R01HL-14456-07 Lung metabolism--Enzymes in the pulmonary circulation (human, animals)
** R01HL-14990-07 Lipid transport in avian species (chickens)
P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
P50HL-15062-07 0008 Study of lipoproteins, artery wall, and atherosclerosis - Lipid modifying enzymes (human, monkey)
P50HL-15062-07 0013 Study of lipoproteins, artery wall, and atherosclerosis - Radioimmunoassay of apolipoproteins (human, monkeys)
P50HL-15062-07 0018 Study of lipoproteins, artery wall, and atherosclerosis - Reversal of atherosclerosis in monkeys
R01HL-15648-06 Lipid metabolism--Transport by lateral diffusion (human, rabbit, cattle)
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
** R01HL-16577-04 Lipoprotein lipase chemistry and function (rats, cattle, human)
P60HL-17269-04 0011 National heart and blood vessel research and demonstration center - Lipoprotein structure laboratory (human)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)

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**Oriented significantly to above subject.

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** P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
R01HL-18687-03 Pathophysiology of genetic hypertriglycerinemias (human)
** R01HL-18705-03 Regulation of plasma triglyceride metabolism (rats)
R01HL-18712-03 Iron deficiency-hyperlipidemia in development (rats)
P50HL-18828-03 0008 Specialized center of research in thrombosis - Biochemistry, physiology--Platelets and subcellular platelet particles (human)
** R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
R01HL-20397-03 VLDL-TG metabolism in diabetes mellitis (human, rat)
R01HL-20408-03 Hyperlipidemia in diabetics during muscular training (human)
R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)
** P01HL-22619-01 0011 Cellular mechanisms of heart failure - Reaction of lipoproteins and apolipoproteins with lipoprotein lipase (cattle)
P01HL-22619-01 0012 Cellular mechanisms of heart failure - Apolipoproteins in hypertriglyceridemia (human)
** R01HL-22967-01 Structure and function of heparin releasable lipases (swine, human)
R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)
N01HV-12159-09 Lipid research clinic

LIPASES, TRIACYLGLYCEROL LIPASE
SEE ALSD LIPASES, LIPOPROTEIN LIPASE
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
R01HL-21513-02 Metabolism of trans fatty acids (human, rats, swine)
** R01HL-22967-01 Structure and function of heparin releasable lipases (swine, human)

LIPEMIA
SEE LIPIDS BLDDD, HYPERCHOLESTEREMIA
SEE LIPIDS BLOOD, HYPERLIPEMIA
SEE LIPOPROTEINS BLOOO, HYPERLIPOPROTEINEMIA

LIPEMIA CLEARING FACTOR
SEE LIPASES, LIPOPROTEIN LIPASE

LIPID BILAYER MEMBRANE
SEE BIOLOGICAL TRANSPORT, MEMBRANE MDDELS

LIPID BIOSYNTHESIS
SEE LIPIDS METABOLISM, LIPDGENESIS

LIPID HAPTENS (CARDIOLIPIN)
SEE PHDSPHOLIPIDS, PHOSPHDGLYCERIDES, CARDIOLIPINS

LIPID METABOLISM
SEE LIPIOS METABOLISM

LIPID MOBILIZING FACTORS
SEE ALSO LIPASES
SEE ALSO LIPOTROPIC FACTDRS
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)

LIPID MOBILIZING FACTORS PITUITARY
SEE ALSD PITUITARY-DIENCEPHALDN HORMDNES, ACTH
SEE ALSO PITUITARY-DIENCEPHALON HORMDNES, SOMATDTRDPIN
SEE ALSD PITUITARY-DIENCEPHALON HORMONES, THYRDTRDPIN
SEE ALSO PITUITARY-DIENCEPHALON HORMDNES, VASOPRESSIN
** R01HL-22115-02 Lipid-mobilization and diabetic atherosclerosis (human)

LIPID PEROXIDES
SEE LIPIDS, DXIDIZED LIPIDS, LIPID PERDXIDES

LIPID PIGMENTS
SEE LIPDFUSCIN-CEROID

LIPID SOLUBILITY
SEE PHYSICAL PROPERTIES, SOLUBILITY, LIPID

LIPIDOSIS (NEUTRAL), INBORN ERRORS
SEE METABOLIC DISORDERS INBDRN, LIPID (NEUTRAL) STDRAGE

LIPIDS
SEE ALSO CONNECTIVE TISSUE, AOIPOSE
SEE ALSO ENDOCRINOLOGY, HORMONES, STERDID HORMONES
SEE ALSO FATTY ACIDS
SEE ALSD GLYCOLIPIOS
SEE ALSO GLYCOSPHINGOLIPIDS
SEE ALSO LIPASES
SEE ALSD LIPIDS BLDDD
SEE ALSD LIPOFUSCIN-CEROID
SEE ALSO LIPOIDAL DISDRDERS
SEE ALSD LIPOPROTEINS
SEE ALSO NUTRITIDN, DIETARY CONSTITUENTS, DIETARY LIPIDS
SEE ALSO PHDSPHDLIPIDS
SEE ALSD PDLYSACCHARIDES, LIPDPOLYSACCHARIOES
SEE ALSO PROTEOLIPIDS
SEE ALSO SLOW REACTING SUBSTANCES
SEE ALSD STERDIOS
SEE ALSD STEROLS
SEE ALSD TRIOSE ALCOHOLS, GLYCERIN
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
** P01HL-08214-15 0006 Chemical and biological properties of lipids - Analysis and properties of lipids
** P01HL-08214-15 0010 Chemical and biological properties of lipids - Infrared spectroscopy of lipids
** P01HL-08214-15 0040 Chemical and biological properties of lipids - Nuclear magnetic resonance studies of lipids
P01HL-08214-15 0047 Chemical and biological properties of lipids - High resolution liquid chromatography for the analysis of biological substances
R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
R01HL-14826-05 External isotope assay of atherosclerosis (rats, rabbits)
R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
R01HL-16101-05 Protein-lipid interaction (bacteria, models)
** P01HL-16137-05 0001 Alveolar biology - Chemical characterization of surfactant system--Lipid and lipid protein fractions
P01HL-16411-04 0004 Blood systems in coagulation and vessel disease - Platelets reactions in vascular injury (human, animals)
P60HL-17269-04 0009 National heart and blood vessel research and demonstration center - Physical methods laboratory (high density lipoproteins)
P60HL-17269-04 0013 National heart and blood vessel research and demonstration center - Peptide synthesis laboratory (human)
P60HL-17269-04 0014 National heart and blood vessel research and demonstration center - Physio-chemical nature of lipid deposits in arterial wall (human)
P01HL-18208-04 0007 Center for the study of blood cell rheology - RBC membrane protein (human)
R01HL-18551-03 Spectrin, actin, lipid and red cell membrane structure
R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)
** R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
R01HL-19011-03 Smooth muscle cell membrane glycoprotein biosynthesis (cattle)
R01HL-19252-02 Vascular connective tissue--Role in atherosclerosis (rabbits)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
R01HL-19381-03 Pathogenesis of viral induced atherosclerosis (human, chicken)
** R23HL-19605-01 Lipid requirement of the lung mono-oxygenase system (rabbits)
R01HL-19639-02 Permeability transients of carriers, channels and heart
** R01HL-19806-03 Chemotactic control of airway phagocytes (human, rabbits)
R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
R01HL-20859-02 Beta adrenergic catecholamine receptor
** R01HL-21239-02 Isolation and mechanism of action of thromboxane A2 (human, rabbits)
R01HL-21404-01 Raman spectroscopy of erythrocyte and model membranes (human)
R01HL-22432-01 Molecular studies of human erythrocyte membranes
P01HL-22602-01 0004 Pathophysiology of the endothelium - Endothelium, platelets smooth muscle and atherosclerosis (rabbits)
P01HL-22619-01 0001 Cellular mechanisms of heart failure - Cell membrane isolation and reconstitution (dogs, lambs)
** P01HL-22633-01 0004 Cellular and molecular biology of lipoprotein metabolism - Lipid-lipid and lipid-protein interactions in serum lipoproteins (human, rats)
R01HL-23003-01 Bulk-surface distribution of cholesteryl esters
R01HL-23013-01 Smooth muscle development in vitro (chick embryo)
R01HL-23183-01 Voltage dependent conductance in membranes
N01HR-52957-02 Composition of respiratory mucus (human, swine)
** N01HV-22917-11 Lipid research clinic (human)
** N01HV-22932-09 Establishment of a lipid research clinic

LIPIDS, CHYLOMICRONS
P01HL-06285-18 0203 Cardiovascular-respiratory physiology and biochemistry - Pathways of lipid transport in the blood (animals)
** P01HL-06285-18 0204 Cardiovascular-respiratory physiology and biochemistry - Lipoprotein lipase and triglyceride transport in chylomicrons (guinea pig, rat)
** P01HL-06285-18 0205 Cardiovascular-respiratory physiology and biochemistry - Assimilation of cholesterol in chylomicrons and VLDL (rabbits)
P01HL-06285-18 0207 Cardiovascular-respiratory physiology and biochemistry - Feedback control of cholesterol synthesis in non-hepatic tissues (animals)
R01HL-10642-18 Plasma cholesterol metabolism (human, macaca)
** R01HL-10933-13 Fat metabolism and atherosclerosis (rabbits, cattle, human, rats)
P50HL-14164-07 0033 A/S SCOR--Comparative and experimental atherosclerosis - Comparative studies of lipoprotein distribution and metabolism (monkeys)
P50HL-14164-07 0037 A/S SCOR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
P50HL-14237-07 0001 Support for arteriosclerosis center - Role of apolipoproteins in lipoprotein catabolism (human, rats)
P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
R01HL-15648-06 Lipid metabolism--Transport by lateral diffusion (human, rabbit, cattle)
P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)
P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells

LIPIDS, FATS
P01HL-06285-18 0204 Cardiovascular-respiratory physiology and biochemistry - Lipoprotein lipase and triglyceride transport in chylomicrons (guinea pig, rat)
P01HL-08214-15 0047 Chemical and biological properties of lipids - High resolution liquid chromatography for the analysis of biological substances
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
P50HL-14141-05 0008 SCOR for atherosclerosis in childhood - Core laboratory
P50HL-15103-07 0013 A/S SCOR--Early natural history of arteriosclerosis - Experimental models of atherosclerosis (monkeys)
P01HL-15596-05 0018 Coagulation, fibrinolysis, hemostasis and hepatitis - Increased plasma lipids on blood coagulation and thrombosis (human, animals)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)
R01HL-20397-03 VLOL-TG metabolism in diabetes mellitis (human, rat)

LIPIDS, FATS, SATURATED FATS
SEE ALSO FATTY ACIOS, SATURATEO FATTY ACIDS
P01HL-08974-14 0024 Natural and experimental atherosclerosis - Atherosclerosis, sterol and lipoprotein metabolism in nonhuman primates
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
R01HL-14781-08 Lipid deposition in mammalian cells (mice)
R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
P50HL-19362-02 0001 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of infant nutrition on atherosclerosis (baboons)

LIPIDS, FATS, UNSATURATED FATS
SEE ALSD FATTY ACIDS, UNSATURATED FATTY ACIOS
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
R01HL-14781-08 Lipid deposition in mammalian cells (mice)
R01HL-14990-07 Lipid transport in avian species (chickens)
P50HL-19362-02 0001 A/S SCDR--Atherosclerosis in nonhuman primates - Effects of infant nutrition on atherosclerosis (baboons)
P01HL-20993-02 0004 Population dynamics of arterial cells in atherogenesis - Modifications of cholesterol balance related to arterial cell divisions (swine)

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* R01HL-23159-01 Regulation of lipogenesis by polyunsaturated fats (rats, chicks)

IPIDS, GLYCERIDES

SEE ALSO LIPIOS, FATS
SEE ALSO PHOSPHOLIPIOS, PHOSPHOGLYCERIDES

P01HL-08214-15 0041 Chemical and biological properties of lipids - Physico-chemical regulation of enzymes in lipid metabolism
R01HL-20189-01 Effects of renin on atherogenesis (rabbits)

IPIDS, GLYCERIDES, DIGLYCERIDES

R01HL-21628-02 Biosynthesis of lung surfactant lipid (rabbit)

IPIDS, GLYCERIDES, TRIGLYCERIDES

R01HL-03299-21 Oietary effects on cholesterol metabolism (rats, rabbits)
P01HL-06308-18 0040 Mechanisms and therapy of circulatory disease - Metabolism and tatty acid utilization--Heart electrical stability (rats, dogs)
P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
P01HL-08974-14 0024 Natural and experimental atherosclerosis - Atherosclerosis, sterol and lipoprotein metabolism in nonhuman primates
R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
P50HL-14164-07 0030 A/S SCOR--Comparative and experimental atherosclerosis - Morphology, angiochemistry--Oiet induced lesions in African green monkey
P50HL-14164-07 0034 A/S SCOR--Comparative and experimental atherosclerosis - Core lipid analytic laboratory
P50HL-14164-07 0041 A/S SCOR--Comparative and experimental atherosclerosis - Nonhuman primate pediatric atherosclerosis risk factor
P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)
P50HL-14197-07 0006 Support tor center of research on arteriosclerosis - Oiets and drugs affecting lipid metabolism (human)
P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
P50HL-14230-07 0088 A/S SCOR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
P50HL-14230-07 0094 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of atherosclerosis and regression (monkeys)
P50HL-14230-07 9001 A/S SCOR--Lipids, atherosclerosis and thrombosis - Core lipid laboratory
P50HL-14236-05 0006 Prevention of premature arteriosclerosis - Carbohydrate metabolism and hypertriglyceridemia (human)
P50HL-14237-07 0001 Support for arteriosclerosis center - Role of apolipoproteins in lipoprotein catabolism (human, rats)
P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
P50HL-14237-07 0003 Support for arteriosclerosis center - Structure of lipoproteins and apolipoproteins (human, rabbits)
P50HL-14237-07 0005 Support for arteriosclerosis center - Genetic determinants of apolipoprotein variability in lipoproteins (human)
P50HL-14237-07 0007 Support for arteriosclerosis center - Core laboratories
R01HL-14990-07 Lipid transport in avian species (chickens)
P01HL-15265-05 0003 Program on surgical control of the hyperlipidemias - Central lipid laboratory
R01HL-15308-07 Assays tor peptides of lipoproteins (human)
R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
R01HL-16059-06 Structure and function of serum lipoproteins (cattle, human)
R01HL-16587-04 Cholesterol binding saponins and atherosclerosis (monkeys)
R01HL-16807-02 Lipid structure of normal and hyperlipoproteins (human)
R01HL-17516-04 Role ot androgen as a risk factor in atherogenesis (human, animals)
R01HL-17721-04 Effect of sex hormones on vascular connective tissue (rats)
** R01HL-18687-03 Pathophysiology of genetic hypertriglycerinemias (human)
** R01HL-18705-03 Regulation of plasma triglyceride metabolism (rats)
R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
** R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
R01HL-19109-03 Regression of chronic atherosclerosis (rabbits)
P50HL-21006-02 0002 Specialized center of research in arteriosclerosis Turnover and metabolism of cholesterol in man
R23HL-21251-01 Metabolism of neutral lipids in the pulmonary alveolus (rabbits)
** R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)
R23HL-21842-01 Control of sugar entry in normal and diabetic heart (rats)
R01HL-22121-02 Oyslipoproteinemia in diabetes and vascular disease (human)
** R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)
P01HL-22619-01 0011 Cellular mechanisms of heart failure - Reaction of lipoproteins and apolipoproteins with lipoprotein lipase (cattle)
** P01HL-22619-01 0012 Cellular mechanisms of heart failure - Apolipoproteins in hypertriglyceridemia (human)
** R01HL-22748-01 Effect of bile sequestration on VLOL metabolism (human)
R01HL-22847-01 Test for adherence to diets rich in linoleic acid
R01HL-22967-01 Structure and function of heparin releasable lipases (swine, human)
R01HL-23003-01 Bulk-surface distribution of cholesteryl esters
R01HL-23159-01 Regulation of lipogenesis by polyunsaturated fats (rats, chicks)
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)

LIPIDS, GLYCERYL ETHERS

SEE ALSO PHOSPHOLIPIOS, PHOSPHOGLYCERIOES, PLASMALOGENS

R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)

LIPIDS, OILS, CROTON OIL

P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury - Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)
** P01HL-15596-05 0012 Coagulation, fibrinolysis, hemostasis and hepatitis - Platelet function--Phorbol ester and zymosan-induced release activity

LIPIDS, OILS, VEGETABLE OILS

P01HL-06835-17 0014 Cardiovascular disease - Oietary induction of severe atherosclerosis and its prevention (dogs)
P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)

LIPIDS, OXIDIZED LIPIDS, LIPID PEROXIDES

** R01HL-18163-04 Red cell membrane effects due to oxidizing agents
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)

LIPIDS, WAXES

P01HL-08214-15 0048 Chemical and biological properties of lipids - Lipids in microorganisms and plants

LIPIDS BIOSYNTHESIS

SEE LIPIOS METABOLISM, LIPOGENESIS

LIPIDS BLOOD

SEE ALSO LIPIOS, CHYLOMICRONS
SEE ALSO LIPOPROTEINS BLOOO

R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
P01HL-06835-17 0014 Cardiovascular disease - Oietary induction of severe atherosclerosis and its prevention (dogs)
P01HL-06835-17 0015 Cardiovascular disease - Plasma cholesterol esterification in canine atherosclerosis
P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)
** P01HL-06835-17 0017 Cardiovascular disease - Studies on obese hypertensive rats
P01HL-06835-17 0018 Cardiovascular disease - Fatty acid concentration (rats)
P01HL-06835-17 0021 Cardiovascular disease - Animal study in atherosclerosis (dog, guinea pig)
P01HL-06835-17 0022 Cardiovascular disease - Arterial lipogenesis from glucose in the rat
** P01HL-06835-17 0026 Cardiovascular disease - Lipoproteins (human, guinea pig)
P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
R01HL-08888-12 Cooperative study of drugs and coronary heart disease (men)
** P01HL-08974-14 9001 Natural and experimental atherosclerosis - Core-Lipid chemistry laboratory
R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)
** R01HL-11901-12 0012 Effects of metabolic surgery on the hyperlipidemias Ileal bypass-Animal atherosclerosis implications (pigeons, dogs, rabbits)
** R01HL-11901-12 0015 Effects of metabolic surgery on the hyperlipidemias Portacaval shunt for cholesterol reduction (dogs, rabbits)
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
** P50HL-14138-05 0008 Center tor research on atherosclerosis - Core lipid laboratory (human)
M P50HL-14141-05 SCOR for atherosclerosis in childhood
P50HL-14141-05 0001 SCOR for atherosclerosis in childhood - Clinical implications (infants and children)
P50HL-14141-05 0002 SCOR for atherosclerosis in childhood - Intrauterine environment of proband group (human)
** P50HL-14141-05 0007 SCOR for atherosclerosis in childhood - Relation of lipid valves to sexual maturation at puberty (human)
** P50HL-14141-05 0008 SCOR for atherosclerosis in childhood - Core laboratory
M P50HL-14164-07 A/S SCOR--Comparative and experimental atherosclerosis
P50HL-14164-07 0029 A/S SCOR--Comparative and experimental atherosclerosis - Oevelopment of pigeon substrains
P50HL-14164-07 0030 A/S SCOR--Comparative and experimental atherosclerosis - Morphology, angiochemistry--Oiet induced lesions in African green monkey
** P50HL-14164-07 0032 A/S SCOR--Comparative and experimental atherosclerosis - Plasma cholesterol, lesion regression and vascular function (Rhesus monkey)
** P50HL-14164-07 0034 A/S SCOR--Comparative and experimental atherosclerosis - Core lipid analytic laboratory
P50HL-14164-07 0037 A/S SCOR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
P50HL-14164-07 0038 A/S SCOR--Comparative and experimental atherosclerosis - Peripheral vascular studies--Cholesterol, lesion regression, vascular function
P50HL-14164-07 0041 A/S SCOR--Comparative and experimental atherosclerosis - Nonhuman primate pediatric atherosclerosis risk factor
P50HL-14214-07 0031 Newborn lung center for hyaline membrane disease - Essential fatty acid deficiency and HMO (human)
M P50HL-14230-07 A/S SCOR--Lipids, atherosclerosis and thrombosis
** P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
** P50HL-14230-07 0093 A/S SCOR--Lipids, atherosclerosis and thrombosis - Clinical studies involving cellular lipid content (human)
P50HL-14230-07 0094 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of atherosclerosis and regression (monkeys)
** P50HL-14230-07 9001 A/S SCOR--Lipids, atherosclerosis and thrombosis - Core lipid laboratory
P50HL-14236-05 0005 Prevention of premature arteriosclerosis - Genetically hyperlipidemic and hypolipidemic rats
** P50HL-14236-05 0012 Prevention of premature arteriosclerosis - Automated lipid analysis
P50HL-14237-07 0005 Support for arteriosclerosis center - Genetic determinants of apolipoprotein variability in lipoproteins (human)
P50HL-14237-07 0007 Support for arteriosclerosis center - Core laboratories
P50HL-15062-07 0018 Study of lipoproteins, artery wall, and atherosclerosis - Reversal of atherosclerosis in monkeys
P50HL-15062-07 0021 Study of lipoproteins, artery wall, and atherosclerosis - Core laboratories
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
** P01HL-15265-05 0003 Program on surgical control of the hyperlipidemias - Central lipid laboratory
P01HL-15265-05 0013 Program on surgical control of the hyperlipidemias - Clinical center - Minnesota
R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
P01HL-15596-05 0001 Coagulation, fibrinolysis, hemostasis and hepatitis - Oefibrination (human)
** P01HL-15596-05 0018 Coagulation, fibrinolysis, hemostasis and hepatitis - Increased plasma lipids on blood coagulation and thrombosis (human, animals)
R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
R01HL-16774-04 Genetic epidemiology of hyperlipemia (Honolulu)
R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
P60HL-17269-04 0043 National heart and blood vessel research and demonstration center - Dietary modification--Effect on cardiovascular risk parameters (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-17564-03 Unsaturated fats--Mode of hypocholesterolemic action (minipig)
P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
R01HL-18235-03 Cardiovascular fitness and other risk factors (human)
P50HL-18318-03 0003 Pathogenesis and complications of hypertension - Core biochemical laboratory
** R01HL-18705-03 Regulation of plasma triglyceride metabolism (rats)
R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)
** R01HL-19083-02 Rapid specific micro measurement of blood cholesterol
R01HL-19109-03 Regression of chronic atherosclerosis (rabbits)
P50HL-19362-02 0001 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of infant nutrition on atherosclerosis (baboons)
P50HL-19362-02 0003 A/S SCOR--Atherosclerosis in nonhuman primates - Heritability of characters related to atherosclerosis (baboons)
P50HL-19362-02 0004 A/S SCOR--Atherosclerosis in nonhuman primates - Selective breeding for characters related to atherosclerosis (baboons)
P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of cigarette smoking on atherosclerosis (baboon)
P50HL-19362-02 0013 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Lipid biochemistry (baboons)
R01HL-20124-02 Coronary risk factors (human)
R01HL-20189-01 Effects of renin on atherogenesis (rabbits)
R01HL-20408-03 Hyperlipidemia in diabetics during muscular training (human)
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)
R01HL-20428-03 The juvenile diabetic heart (human)
R01HL-20508-03 Diabetes, hyperglycemia and cardiovascular disease (human)
R01HL-20522-03 Peripheral arterial disease in the diabetic (human)
R01HL-20564-02 Pathogenesis of peripheral arterial disease (rats, rabbits)
M P50HL-21006-02 Specialized center of research in arteriosclerosis
P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
** R01HL-22847-01 Test for adherence to diets rich in linoleic acid
R01HL-23981-01 Acute alveolar injury (dogs)
** N01HV-12157-14 Lipid research clinic (human)
** N01HV-22915-11 Establishment of lipid research clinic
** N01HV-22916-16 Establishment of a lipid research clinic
N01HV-42933-09 Multiple risk factors in coronary heart disease (human)

LIPIDS BLOOD, HYPERCHOLESTEREMIA

SEE ALSO LIPOPRDTEINS BLOOD, HYPERLIPOPROTEINEMIA
SEE ALSO METABOLIC OISOROERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE II
SEE ALSO METABDLIC DISOROERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE III
SEE ALSO METABOLIC DISORDERS INBDRN, LCAT OEFICIENCY

** R01HL-01803-23 0010 Arteriosclerosis, glomerulonephritis, rheumatic fever - Atherosclerosis induction--Graft rejection and hypercholesterolemia (rabbits)
R01HL-01803-23 0014 Arteriosclerosis, glomerulonephritis, rheumatic fever - Regenerated endothelium on lipid accumulation in arterial wall (rabbit)
R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)
R01HL-03429-18 Central nervous system and coronary heart disease (human)
** R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
R01HL-06481-15 Lipid metabolism (human, rats)
M R01HL-11901-12 Effects of metabolic surgery on the hyperlipidemias
R01HL-11901-12 0001 Effects of metabolic surgery on the hyperlipidemias - Partial ileal bypass (human)
R01HL-11901-12 0004 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Cholesterol dynamics studies (rats, rabbits, dogs)
** R01HL-11901-12 0006 Effects of metabolic surgery on the hyperlipidemias - Drug therapy with ileal bypass (rabbits)
R01HL-11901-12 0012 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Animal atherosclerosis implications (pigeons, dogs, rabbits)
R01HL-11901-12 0015 Effects of metabolic surgery on the hyperlipidemias - Portacaval shunt for cholesterol reduction (dogs, rabbits)
** R01HL-11901-12 0017 Effects of metabolic surgery on the hyperlipidemias - Membrane permeability, blood viscosity, oxygen uptake--Rheology studies (rabbits)
** R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
P50HL-14164-07 0027 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (squirrel monkey)
P50HL-14164-07 0028 A/S SCDR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (African green monkey)
** P50HL-14164-07 0030 A/S SCOR--Comparative and experimental atherosclerosis - Morphology, angiochemistry--Diet induced lesions in African green monkey
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
P50HL-14230-07 0088 A/S SCOR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
P50HL-14230-07 0093 A/S SCOR--Lipids, atherosclerosis and thrombosis - Clinical studies involving cellular lipid content (human)
** P50HL-14230-07 0094 A/S SCDR--Lipids, atherosclerosis and thrombosis - Studies of atherosclerosis and regression (monkeys)
P50HL-14236-05 0001 Prevention of premature arteriosclerosis - Metabolism and transport of cholesterol and vitamin A (human, rats)
P50HL-14236-05 0005 Prevention of premature arteriosclerosis - Genetically hyperlipidemic and hypolipidemic rats
P01HL-14388-07 0165 Regulation of the circulation in pathological states - Vascular resistance in experimental atherosclorosis in Rhesus monkeys
P50HL-15103-07 0013 A/S SCOR--Early natural history of arteriosclerosis - Experimental models of atherosclerosis (monkeys)
R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
R01HL-16419-03 Arterial uptake of lipoprotein--Kinetic analysis (rabbits)
R01HL-16587-04 Cholesterol binding saponins and atherosclerosis (monkeys)
P60HL-17269-04 0015 National heart and blood vessel research and demonstration center - Lipoprotein metabolism laboratory (human)
R01HL-17463-03 Composition and structure of plasma lipoproteins (human, rabbits)
R01HL-17754-03 Pathogenesis and prevention of hypertension sequelae (rats)
R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
R01HL-18085-03 Neural factors in atherogenesis (squirrel monkeys)
R01HL-18152-03 Vascular injury and atherosclerosis (mice, coxsackievirus)
R01HL-18636-02 Fatty acids and cholesterol transport (rats)
P01HL-18645-03 0001 Biology of the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
P01HL-18645-03 0005 Biology of the artery wall and atherosclerosis - Effects of atherosclerosis risk factors on endothelium of the primate
P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
P01HL-18645-03 0007 Biology of the artery wall and atherosclerosis - Lipoprotein metabolism in subhuman primates
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
** R01HL-18878-03 Familial hypercholesteremia--Studies of fibroblasts (human)
R01HL-19175-03 Pituitary moduiation of micro-and macro-vascular disease (human, rats)
R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
P50HL-19362-02 0003 A/S SCDR--Atherosclerosis in nonhuman primates - Heritability of characters related to atherosclerosis (baboons)
** P50HL-19362-02 0004 A/S SCOR--Atherosclerosis in nonhuman primates - Selective breeding for characters related to atherosclerosis (baboons)
P50HL-19362-02 0005 A/S SCDR--Atherosclerosis in nonhuman primates - Hybridization to produce primate model of atherosclerosis (baboon, Rhesus)
R01HL-20397-03 VLDL-TG metabolism in diabetes mellitis (human, rat)
R01HL-20807-02 Oetection of familial hypercholesterolemia (human)
R01HL-20924-02 Atherosclerosis and arterial cell functions (human, rabbits)
P01HL-20993-02 0001 Population dynamics of arterial cells in atherogenesis - Arterial SMC population dynamics in atherogenesis (swine)
** P01HL-20993-02 0007 Population dynamics of arterial cells in atherogenesis - Interaction of lipoproteins in hypercholesteremia (human, swine)
P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
P50HL-21006-02 0002 Specialized center of research in arteriosclerosis - Turnover and metabolism of cholesterol in man
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
R01HL-21088-02 Genetic patterns in deaths from MI and stroke in Utah
R01HL-21427-02 Behavioral changes in post infarction patients
R01HL-21429-02 Transport of LDL in arterial wall (human, mammals)
R01HL-21438-02 Structure and permeability of arterial endothelium (pigs)
R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)
R01HL-22748-01 Effect of bile sequestration on VLOL metabolism (human)
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)
N01HV-22971-07 Prevention of coronary heart disease (human)
N01HV-22976-07 Multiple risk factor intervention trial, prevention of coronary heart disease
N01HV-22977-08 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22979-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22981-10 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33101-06 Development and conduct of a multiple risk factor intervention trial (human)
N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33108-04 Prevention of coronary heart disease (human)
N01HV-33109-04 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33110-04 Prevention of coronary heart disease (human)

LIPIDS BLOOD, HYPERCHOLESTEREMIA ESSENTIAL FAMILIAL

SEE METABOLIC OISOROERS INBDRN, HYPERLIPOPRDTEINEMIAS FAMILIAL, TYPE II

LIPIDS BLOOD, HYPERLIPEMIA

SEE ALSO LIPIDS BLOOD, HYPERCHOLESTEREMIA
SEE ALSO LIPOPROTEINS BLODO, HYPERLIPOPROTEINEMIA

R01HL-01803-23 0005 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic and dietary synergy in the pathogenesis of atherosclerosis (rabbits)
R01HL-01803-23 0011 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
R01HL-01979-22 Arteriosclerosis in zoo animals on controlled diets (animals)
** R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)
R01HL-05209-18 Lipid metabolism (monkeys)
** R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)
P01HL-06285-18 0204 Cardiovascular-respiratory physiology and biochemistry - Lipoprotein lipase and triglyceride transport in chylomicrons (guinea pig, rat)
P01HL-06835-17 0015 Cardiovascular disease - Plasma cholesterol esterification in canine atherosclerosis
** P01HL-06835-17 0022 Cardiovascular disease - Arterial lipogenesis from glucose in the rat
** P01HL-06835-17 0063 Cardiovascular disease - Studies on prostaglandins (human, rabbits)
** R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
** R01HL-09622-14 Pathogenesis of atherosclerosis (rats)
R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
R01HL-10316-13 Structural studies on low density serum lipoproteins (human)
R01HL-11775-11 Platelet mechanisms in disease (human, primates)
M R01HL-11901-12 Effects of metabolic surgery on the hyperlipidemias
R01HL-11901-12 0001 Effects of metabolic surgery on the hyperlipidemias - Partial ileal bypass (human)
R01HL-11901-12 0004 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Cholesterol dynamics studies (rats, rabbits, dogs)
** R01HL-11901-12 0013 Effects of metabolic surgery on the hyperlipidemias - Human cholesterol and bile acids dynamics--Ileal bypass
** R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
P50HL-14141-05 0001 SCOR for atherosclerosis in childhood - Clinical implications (infants and children)
** P50HL-14141-05 0003 SCOR for atherosclerosis in childhood - Detection of abnormalities in lipid metabolism (human, rabbits, rats)
** P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
** P50HL-14230-07 0088 A/S SCOR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
** P50HL-14230-07 0093 A/S SCOR--Lipids, atherosclerosis and thrombosis - Clinical studies involving cellular lipid content (human)
M P50HL-14236-05 Prevention of premature arteriosclerosis
P50HL-14236-05 0001 Prevention of premature arteriosclerosis - Metabolism and transport of cholesterol and vitamin A (human, rats)
** P50HL-14236-05 0003 Prevention of premature arteriosclerosis - Intravascular clotting in patients with hyperlipidemia
** P50HL-14236-05 0005 Prevention of premature arteriosclerosis - Genetically hyperlipidemic and hypolipidemic rats
** P50HL-14236-05 0006 Prevention of premature arteriosclerosis - Carbohydrate metabolism and hypertriglyceridemia (human)
** P50HL-14236-05 0009 Prevention of premature arteriosclerosis - Clinical studies on cholesterol metabolism (human)
P50HL-14236-05 0010 Prevention of premature arteriosclerosis - Computer programs
** P50HL-14236-05 0011 Prevention of premature arteriosclerosis - Nutritional program
P50HL-14237-07 0001 Support for arteriosclerosis center - Role of apolipoproteins in lipoprotein catabolism (human, rats)
** R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
R01HL-14781-08 Lipid deposition in mammalian cells (mice)
P50HL-15062-07 0012 Study of lipoproteins, artery wall, and atherosclerosis - Lipoprotein stimulation of arterial smooth muscle cell proliferation (mammals)
P50HL-15062-07 0018 Study of lipoproteins, artery wall, and atherosclerosis - Reversal of atherosclerosis in monkeys
P50HL-15062-07 0019 Study of lipoproteins, artery wall, and atherosclerosis - Factors regulating lipoprotein-smooth muscle cell interaction (monkey)
** P50HL-15062-07 0020 Study of lipoproteins, artery wall, and atherosclerosis - Artery wall reactions--Elevated pressure and hyperlipemia (monkey)
R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
P01HL-15596-05 0002 Coagulation, fibrinolysis, hemostasis and hepatitis - Radioimmunoassay of fibrinogen and fibrin derivatives (human)
R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
R01HL-15949-05 Lipoprotein metabolism in relation to atherosclerosis (human, baboons)
R01HL-16206-04 Regression of atherosclerotic plaques (monkeys, dogs)
** R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
R01HL-16577-04 Lipoprotein lipase chemistry and function (rats, cattle, human)
R01HL-16588-05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
R01HL-17369-04 Arterial bypass surgery--Structure and metabolism (monkeys)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
** R01HL-18152-03 Vascular injury and atherosclerosis (mice, coxsackievirus)
R01HL-18625-03 Organization of arterial ground substance (cattle)
** R01HL-18712-03 Iron deficiency-hyperlipidemia in development (rats)
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
** R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)
** R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)
R01HL-20124-02 Coronary risk factors (human)
** R01HL-20183-02 Portacaval shunt as treatment for hyperlipemia (pigs)
R01HL-20397-03 VLDL-TG metabolism in diabetes mellitis (human, rat)
** R01HL-20408-03 Hyperlipidemia in diabetics during muscular training (human)
R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
R01HL-20488-03 Cholesterol metabolism in diabetic man
R01HL-20807-02 Detection of familial hypercholesterolemia (human)
R01HL-20910-02 The alternative diet for coronary disease prevention (human)
** P01HL-20948-02 0001 Molecular basis of cholesterol metabolism - Biochemical and ultrastructural characterization of LDL in human fibroblasts
M P50HL-21006-02 Specialized center of research in arteriosclerosis
** P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
** P50HL-21006-02 0002 Specialized center of research in arteriosclerosis - Turnover and metabolism of cholesterol in man
P50HL-21006-02 0005 Specialized center of research in arteriosclerosis - Regional myocardial perfusion in patient with coronary artery disease (also dogs)
** P50HL-21006-02 0006 Specialized center of research in arteriosclerosis - Intravascular coagulation and thrombosis in hyperlipidemia (human)
R01HL-22115-02 Lipid-mobilization and diabetic atherosclerosis (human)
R01HL-22121-02 Dyslipoproteinemia in diabetes and vascular disease (human)
R01HL-22255-01 The etiology/prevalence of peripheral arterial disease (human)
** R01HL-22341-01 Pathogenesis of atherosclerosis in rats
R01HL-22367-01 Estrogen receptors in very low density lipoproteins (chicken livers)
R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)
R01HL-22567-01 Validation of a cholesterol absorption method in man
** P01HL-22602-01 0004 Pathophysiology of the endothelium - Endothelium, platelets smooth muscle and atherosclerosis (rabbits)
R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)
** P01HL-22633-01 0001 Cellular and molecular biology of lipoprotein metabolism - Secretion of lipoproteins by the perfused liver (rats, rabbits)
P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
R01HL-22847-01 Test for adherence to diets rich in linoleic acid
R01HL-23159-01 Regulation of lipogenesis by polyunsaturated fats (rats, chicks)
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)
** N01HV-72983-00 Nutrition counseling in hyperlipidemia

LIPIDS BLOOD, HYPOCHOLESTEREMIA

P50HL-14236-05 0005 Prevention of premature arteriosclerosis - Genetically hyperlipidemic and hypolipidemic rats

LIPIDS METABOLISM

SEE ALSO FATTY ACIDS METABOLISM
SEE ALSO LIPID MOBILIZING FACTORS
SEE ALSO STEROID METABOLISM
R01HL-01803-23 0005 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic and dietary synergy in the pathogenesis of atherosclerosis (rabbits)
** R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
** R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
** R01HL-05209-18 Lipid metabolism (monkeys)
** R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)
P01HL-06285-18 0205 Cardiovascular-respiratory physiology and biochemistry - Assimilation of cholesterol in chylomicrons and VLDL (rabbits)
** P01HL-06308-18 0040 Mechanisms and therapy of circulatory disease - Metabolism and fatty acid utilization--Heart electrical stability (rats, dogs)
** P01HL-06312-17 0046 Surgical cardiology - The relationship of prostaglandins to heart disease
** P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)
** P01HL-06835-17 0020 Cardiovascular disease - Lipid metabolism (rats)
** P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
M P01HL-08214-15 Chemical and biological properties of lipids
** P01HL-08214-15 0005 Chemical and biological properties of lipids - Metabolism of lipids in animals
** P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)
** P01HL-08214-15 0027 Chemical and biological properties of lipids - Biological functions diol lipids (swine, rats, plants)
** P01HL-08214-15 0041 Chemical and biological properties of lipids - Physico-chemical regulation of enzymes in lipid metabolism
** P01HL-08214-15 0048 Chemical and biological properties of lipids - Lipids in microorganisms and plants
R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
R01HL-08634-15 Enzymic cholesterol synthesis (human, rats, protozoa, yeast)
** R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
M P01HL-08974-14 Natural and experimental atherosclerosis
** P01HL-08974-14 0024 Natural and experimental atherosclerosis Atherosclerosis, sterol and lipoprotein metabolism in nonhuman primates
** R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
** R01HL-10933-13 Fat metabolism and atherosclerosis (rabbits, cattle, human, rats)
P01HL-11310-12 0101 Mechanisms of cardiovascular disease - Molecular pathogenesis of vascular disease
R01HL-12138-08 Nutritional regulation of enzyme activity (rats, human)
** R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
** P01HL-13262-07 0016 Arterial wall in atherosclerosis - Lipids in elastin preparations from atherosclerotic plaques (human, animals)
** R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
** R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)
** P50HL-14164-07 0035 A/S SCOR--Comparative and experimental atherosclerosis - Lipid metabolism--Interaction with arterial metabolism (monkey, pigeon)
P50HL-14164-07 0036 A/S SCOR--Comparative and experimental atherosclerosis - Connective tissue metabolism--Interaction with arterial metabolism (monkeys)
M P50HL-14197-07 Support for center of research on arteriosclerosis
** P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)
** P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
** P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
** P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
** P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
** R01HL-14781-08 Lipid deposition in mammalian cells (mice)
R01HL-15263-06 Lecithin--Cholesterol acetyltransferase (human, rabbits)
R01HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
** R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
R01HL-15504-05 Animal model for studies on averting atherosclerosis (swine)
** R01HL-15646-03 Lipid studies in vascular smooth muscle cells (human, monkeys)
** R01HL-15648-06 Lipid metabolism--Transport by lateral diffusion (human, rabbit, cattle)
** R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
R01HL-16206-04 Regression of atherosclerotic plaques (monkeys, dogs)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
** R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
** R01HL-16628-05 Regulation of lipid metabolism (rats)
** R01HL-16955-05 Heparin, blood coagulation and lipid metabolism (human)
** R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
** R01HL-17369-04 Arterial bypass surgery--Structure and metabolism (monkeys)
** R01HL-17564-03 Unsaturated fats--Mode of hypocholesterolemic action (minipig)
P50HL-17646-04 0005 Study of ischemic heart disease - Biochemical markers and mediators of myocardial ischemic injury
** P50HL-17648-04 0027 Study of ischemic heart disease - Phospholipid metabolism following cardiac injury and repair (rat)
R01HL-18085-03 Neural factors in atherogenesis (squirrel monkeys)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
P50HL-18318-03 0014 Pathogenesis and complications of hypertension - Arterial metabolism and atherogenesis (rat, rabbit)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
M P01HL-18574-03 Lipoprotein methodology and biomedical applications
P01HL-18574-03 0001 Lipoprotein methodology and biomedical applications - Ultracentrifugal and electrophoretic lipoprotein methodology--Applications
** P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
** P01HL-18574-03 0005 Lipoprotein methodology and biomedical applications - Structure and function of lipoproteins
** P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
** R01HL-18586-03 Role of platelet lipids in hemostasis and thrombosis (human)
P01HL-18645-03 0001 Biology of the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
P01HL-18645-03 0004 Biology of the artery wall and atherosclerosis - Human arterial smooth muscle cell and lipoprotein interaction
** P01HL-18645-03 0007 Biology of the artery wall and atherosclerosis - Lipoprotein metabolism in subhuman primates
R01HL-18712-03 Iron deficiency-hyperlipidemia in development (rats)
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
** R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
P50HL-19362-02 0001 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of infant nutrition on atherosclerosis (baboons)
P50HL-19362-02 0002 A/S SCOR--Atherosclerosis in nonhuman primates - Infant caloric intake, adipose tissue development and atherosclerosis (baboon)
P50HL-19362-02 0005 A/S SCOR--Atherosclerosis in nonhuman primates - Hybridization to produce primate model of atherosclerosis (baboon, Rhesus)
** P50HL-19362-02 0013 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Lipid biochemistry (baboons)
** R01HL-20397-03 VLDL-TG metabolism in diabetes mellitis (human, rat)
R01HL-20408-03 Hyperlipidemia in diabetics during muscular training (human)
** R01HL-20483-03 Sterol balance and cholesterol absorption in diabetics (human)
R01HL-20954-02 Hyperlipoproteinemia (rats, human)
** R23HL-21251-01 Metabolism of neutral lipids in the pulmonary alveolus (rabbits)
R01HL-21416-02 Atherosclerosis in new modles of diabetes mellitus
** R01HL-21513-02 Metabolism of trans fatty acids (human, rats, swine)
** R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
** R01HL-22121-02 Dyslipoproteinemia in diabetes and vascular disease (human)
** R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)
R01HL-22502-01 Role of phosphoinositides in human platelet secretion
M P01HL-22619-01 Cellular mechanisms of heart failure
P01HL-22619-01 0011 Cellular mechanisms of heart failure - Reaction of lipoproteins and apolipoproteins with lipoprotein lipase (cattle)
P01HL-22619-01 0012 Cellular mechanisms of heart failure - Apolipoproteins in hypertriglyceridemia (human)
M P01HL-22633-01 Cellular and molecular biology of lipoprotein metabolism
** P01HL-22633-01 0001 Cellular and molecular biology of lipoprotein metabolism - Secretion of lipoproteins by the perfused liver (rats, rabbits)
P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
** R01HL-22748-01 Effect of bile sequestration on VLDL metabolism (human)
** R01HL-23161-01 0001 Biology of myocardial ischemia - Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)
** R01HL-23598-01 Dietary fat, cholesterol and bile acid turnover (rats)
** R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)
R01HL-23981-01 Acute alveolar injury (dogs)
N01HV-12157-14 Lipid research clinic (human)
N01HV-12158-10 Establishment of a lipid research clinic
N01HV-22913-09 Lipid research clinic
N01HV-53029-04 Nonhuman primate models of atherosclerosis
N01HV-53030-05 Nonhuman primate models of atherosclerosis and hypertension
N01HV-53031-04 Nonhuman primate models of atherosclerosis and hypertension
N01HV-72978-02 Development of models of hypertension
N01HV-72980-02 Development of models of hypertension

LIPIDS METABOLISM, LIPOGENESIS

SEE ALSO FATTY ACIDS BIOSYNTHESIS
SEE ALSO STERDIOOGENESIS
R01HL-01770-26 Structural aspects of lung surfactant system (rats)
** R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
** R01HL-06481-15 Lipid metabolism (human, rats)
** P01HL-06835-17 0022 Cardiovascular disease - Arterial lipogenesis from glucose in the rat
P01HL-06835-17 0024 Cardiovascular disease - Studies on the obese spontaneously hypertensive rat
** P01HL-08214-15 0005 Chemical and biological properties of lipids - Metabolism of lipids in animals
** P01HL-08214-15 0025 Chemical and biological properties of lipids - Biosynthesis and biological functions of plasmalogen (cattle)
P01HL-08214-15 0027 Chemical and biological properties of lipids - Biological functions diol lipids (swine, rats, plants)
P01HL-08214-15 0030 Chemical and biological properties of lipids - Fatty acid biosynthesis in plant cell cultures and in plants
R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
** R01HL-11901-12 0004 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Cholesterol dynamics studies (rats, rabbits, dogs)
R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
R01HL-13028-09 Regulation of myocardial fatty acid metabolism (rats)
** P50HL-14141-05 0003 SCOR for atherosclerosis in childhood - Detection of abnormalities in lipid metabolism (human, rabbits, rats)
** P50HL-14214-07 0015 Newborn lung center for hyaline membrane disease - Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal)
P50HL-14214-07 0021 Newborn lung center for hyaline membrane disease - Development of surfactant system--Surfactant production and release (rat, rabbit)
P50HL-14214-07 0022 Newborn lung center for hyaline membrane disease - Functional integrity of surfactant system--Hyaline membrane disease (lamb, rat)
P50HL-14230-07 0093 A/S SCOR--Lipids, atherosclerosis and thrombosis - Clinical studies involving cellular lipid content (human)
P50HL-14236-05 0002 Prevention of premature arteriosclerosis - Myocardial blood flow in patients with coronary artherosclerosis
P50HL-14236-05 0004 Prevention of premature arteriosclerosis - Plasma lipoproteins (human, rats)
** P50HL-14237-07 0004 Support for arteriosclerosis center - Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys)
R01HL-14990-07 Lipid transport in avian species (chickens)
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
P50HL-15062-07 0009 Study of lipoproteins, artery wall, and atherosclerosis - Plasma lipoprotein biosynthesis (Rhesus monkeys)
** R01HL-15476-05 Mechanism and control of sterol biosynthesis (rats)
** R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
P01HL-16137-05 0004 Alveolar biology - Subcellular processes and controls in the surfactant system (animals)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
** R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
** P60HL-17269-04 0045 National heart and blood vessel research and demonstration center - Regulation of lipogenesis in hyperlipoproteinemia (human, tissue culture)
** P50HL-17648-04 0027 Study of ischemic heart disease - Phospholipid metabolism following cardiac injury and repair (rat)
** R01HL-18239-03 Dietary fat composition and prostaglandin synthesis (rats)
R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
** R01HL-19168-03 Biosynthesis of plasma lipoprotein (rats, rabbits)
** P50HL-19185-02 0001 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sites of synthesis, secretion and structure of surface active material (rat)
P50HL-19187-02 0002 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Alterations in surface active material (monkeys)
P50HL-19187-02 0004 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Surface active material, lamellar bodies (mice, rats)
P50HL-19190-02 0003 Pulmonary SCOR--Pathophysiology, management of IRDS - Type II cells--Regulation and differentiation (rat)
R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
** R01HL-19669-03 Lung organ culture and surfactant biosynthesis (adult and fetal rats)
** R01HL-19752-03 Phospholipid synthesis by fetal lung in organ culture (rats)
R01HL-20183-02 Portacaval shunt as treatment for hyperlipemia (pigs)
R01HL-20484-03 Effects of diabetes on cardiac function and metabolism (rats)
R01HL-20566-02 Lactate metabolism in the lung (rats)
** R01HL-21008-02 Effect of pollutants on organotypic lung cultures (rats)
R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)
** R01HL-21628-02 Biosynthesis of lung surfactant lipid (rabbit)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
** R01HL-22500-01 Conversion of choline to phosphatidylcholine in lung (rabbits, pigs)
R01HL-22502-01 Role of phosphoinositides in human platelet secretion
R01HL-22623-01 Polyamines cellular mediators of atherogenesis (human)
R01HL-22983-01 Studies on the catabolism of plasma lipoproteins (rats)
** R01HL-23159-01 Regulation of lipogenesis by polyunsaturated fats (rats, chicks)

LIPIDS METABOLISM, LIPOLYSIS

SEE ALSO LIPID MDBILIZING FACTORS
R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
P01HL-11310-12 0103 Mechanisms of cardiovascular disease - Heparin--Metabolism and function
** P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
** P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
R01HL-13626-06 Lipoprotein lipase and lipoprotein removal (human, rats, bacteria)
** P50HL-14237-07 0001 Support for arteriosclerosis center - Role of apolipoproteins in lipoprotein catabolism (human, rats)
P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
R01HL-20484-03 Effects of diabetes on cardiac function and metabolism (rats)
P01HL-22619-01 0011 Cellular mechanisms of heart failure - Reaction of lipoproteins and apolipoproteins with lipoprotein lipase (cattle)
** R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)

LIPIDS STRUCTURE

R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
** P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
** P01HL-06285-18 0210 Cardiovascular-respiratory physiology and biochemistry - Physicochemical and enzymatic studies of lung surfactant (Halobacterium)
P01HL-09011-15 0005 A research and resource program in blood - Characterization of hepatitis-B antigen and the cause of serum hepatitis (human)
R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
R01HL-14111-07 Cholesteryl esters in membranes and atherosclerosis (human, swine)
P50HL-14147-08 0003 Specialized center of research in thrombosis - Surface thrombogenicity and phospholipid vesicle physical properties
P50HL-14147-08 0015 Specialized center of research in thrombosis - Charge related properties of phospholipid surfaces in monolayers and vesicles

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-15378-06 Ultrastructure of antihypertensive prostaglandins
R01HL-15427-06 Secretion of plasma lipoproteins (rats)
R01HL-16059-06 Structure and function of serum lipoproteins (cattle, human)
** R01HL-16807-02 Lipid structure of normal and hyperlipoproteins (human)
R01HL-17371-05 Regualtion of cholesteryl ester levels in the aorta (swine)
R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
** R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R01HL-19168-03 Biosynthesis of plasma lipoprotein (rats, rabbits)
R01HL-19459-03 Oynamics of atherogenesis and lipoprotein formation (human, rabbit)
R01HL-20317-02 Procoagulant lipoproteins--Biochemistry and bioactivity (goats, rabbits)
** R01HL-20350-02 Crystal structure of lipids--Cholesterol
R01HL-22052-01 Organization of free cholesterol in serum lipoproteins (human, dogs)
R01HL-22682-01 Structure and function of high density lipoprotein (human, rat)
R01HL-23003-01 Bulk-surface distribution of cholesteryl esters
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

LIPIDS TRANSPORT

SEE ALSO FATTY ACIOS TRANSPORT (GENERAL)
** R01HL-01803-23 0014 Arteriosclerosis, glomerulonephritis, rheumatic fever - Regenerated endothelium on lipid accumulation in arterial wall (rabbit)
R01HL-05209-18 Lipid metabolism (monkeys)
** R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
** P01HL-06285-18 0203 Cardiovascular-respiratory physiology and biochemistry - Pathways of lipid transport in the blood (animals)
** P01HL-06285-18 0204 Cardiovascular-respiratory physiology and biochemistry - Lipoprotein lipase and triglyceride transport in chylomicrons (guinea pig, rat)
** P01HL-06285-18 0205 Cardiovascular-respiratory physiology and biochemistry - Assimilation of cholesterol in chylomicrons and VLDL (rabbits)
** R01HL-08634-15 Enzymic cholesterol synthesis (human, rats, protozoa, yeast)
R01HL-09739-13 Biophysical studies of proteins (human)
** R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
R01HL-10642-18 Plasma cholesterol metabolism (human, macaca)
** R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
P50HL-14164-07 0033 A/S SCOR--Comparative and experimental atherosclerosis - Comparative studies of lipoprotein distribution and metabolism (monkeys)
P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
** P50HL-14236-05 0001 Prevention of premature arteriosclerosis - Metabolism and transport of cholesterol and vitamin A (human, rats)
P50HL-14237-07 0004 Support for arteriosclerosis center - Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys)
** R01HL-14990-07 Lipid transport in avian species (chickens)
P50HL-15062-07 0019 Study of lipoproteins, artery wall, and atherosclerosis - Factors regulating lipoprotein-smooth muscle cell interaction (monkey)
R01HL-15478-05 Lipid flux and collagen synthesis in atherosclerosis (rabbits)
R01HL-15646-03 Lipid studies in vascular smooth muscle cells (human, monkeys)
** R01HL-15648-06 Lipid metabolism--Transport by lateral diffusion (human, rabbit, cattle)
** R01HL-16059-06 Structure and function of serum lipoproteins (cattle, human)
R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
** R01HL-16419-03 Arterial uptake of lipoprotein--Kinetic analysis (rabbits)
R01HL-16577-04 Lipoprotein lipase chemistry and function (rats, cattle, human)
P60HL-17269-04 0015 National heart and blood vessel research and demonstration center - Lipoprotein metabolism laboratory (human)
P60HL-17269-04 0045 National heart and blood vessel research and demonstration center - Regulation of lipogenesis in hyperlipoproteinemia (human, tissue culture)
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
** P01HL-18577-03 0003 Lipoproteins--Cell surface interactions - Mechanism of lipid exchange in lipoproteins and cell membranes
** P01HL-18577-03 0004 Lipoproteins--Cell surface interactions - Analysis and chemical modification of proteins in lipid transport (human, dogs)
** R01HL-18636-02 Fatty acids and cholesterol transport (rats)
P50HL-18828-03 0006 Specialized center of research in thrombosis Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
R01HL-20488-03 Cholesterol metabolism in diabetic man
** R01HL-20882-02 Interactions of plasma lipoproteins with erythrocytes (Rhesus, human)
** P50HL-21006-02 0003 Specialized center of research in arteriosclerosis - Transport of vitamin A in plasma (human, rat)
R23HL-21271-02 Extracorporeal circulation and protein denaturation (human)
R23HL-21559-01 Oxygen supply and blood flow through aortic vasa vasorum (dogs)
R01HL-21845-01 Human red cell membrane--Structure and function
N01HV-12160-15 Establishment of a lipid research clinic
N01HV-53015-09 Establishment of a lipid research clinic (human)

LIPOAMINO ACIDS

SEE PHOSPHOLIPIDS, PHOSPHOGLYCERIOES, PHOSPHATIOYL SERINE

LIPOFUSCIN-CEROID

R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)

LIPOGENESIS

SEE LIPIOS METABOLISM, LIPOGENESIS

LIPOGENIC INHIBITORS

SEE ALSO CHOLESTANE SERIES, CHOLESTEROL INHIBITORS
R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
R01HL-10933-13 Fat metabolism and atherosclerosis (rabbits, cattle, human, rats)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
** P50HL-14141-05 0003 SCOR for atherosclerosis in childhood - Oetection of abnormalities in lipid metabolism (human, rabbits, rats)
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Oiets and drugs affecting lipid metabolism (human)
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
** R01HL-18887-03 Hypolipidemic drugs--Effects on FFA-albumin association (human, cattle)
R01HL-19820-02 The chemistry and biological effects of heparin (Rhesus, human, other mammals)
** R01HL-20909-02 Clofibrate-enhanced lipid oxidation by peroxisomes (rats)
R01HL-20954-02 Hyperlipoproteinemia (rats, human)
P50HL-21006-02 0002 Specialized center of research in arteriosclerosis - Turnover and metabolism of cholesterol in man
R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
R01HL-23159-01 Regulation of lipogenesis by polyunsaturated fats (rats, chicks)

LIPOGRANULOMATOSES, CEREBROTENDINOUS XANTHOMATOSIS

R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
** R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)

LIPOGRANULOMATOSES, LIPOID PROTEINOSIS

R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)

LIPOIC ACID

SEE VITAMIN B, LIPOIC ACIO

LIPOID PROTEINOSIS

SEE LIPOGRANULOMATOSES, LIPOIO PROTEINOSIS

LIPOIDAL DISORDERS

SEE ALSO BOOY WEIGHT, OBESITY
SEE ALSO LIPIDS BLOOO, HYPERCHOLESTEREMIA
SEE ALSO LIPIOS BLOOO, HYPERLIPEMIA
SEE ALSO LIPIOS BLOOO, HYPOCHOLESTEREMIA
SEE ALSO LIVER OISOROERS, FATTY LIVER
SEE ALSO METABOLIC OISORDERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL
SEE ALSO METABOLIC OISOROERS INBORN, LCAT OEFICIENCY
SEE ALSO METABOLIC OISOROERS INBORN, LIPIO (NEUTRAL) STORAGE
SEE ALSO METABOLIC DISOROERS INBORN, OBESITY HEREOITARY HYPERGLYCEMIC
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
R01HL-15263-06 Lecithin--Cholesterol acetyltransferase (human, rabbits)
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
** R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
R01HL-22121-02 Oyslipoproteinemia in diabetes and vascular disease (human)
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

LIPOIDAL DISORDERS, XANTHOMATOSIS

SEE ALSO METABOLIC DISOROERS INBORN, LIPIO (NEUTRAL) STORAGE, WOLMAN'S OISEASE
R01HL-18878-03 Familial hypercholesteremia--Studies of fibroblasts (human)

LIPOLYSIS

SEE LIPIOS METABOLISM, LIPOLYSIS

LIPOLYTIC HORMONES (PITUITARY)

SEE LIPIO MOBILIZING FACTORS PITUITARY

LIPOPOLYSACCHARIDES

SEE POLYSACCHARIOES, LIPOPOLYSACCHARIOES

LIPOPROTEIN LIPASE

SEE LIPASES, LIPOPROTEIN LIPASE

LIPOPROTEINS

SEE ALSO LIPASES, LIPOPROTEIN LIPASE
SEE ALSO LIPIOS, CHYLOMICRONS
SEE ALSO PROTEOLIPIOS
R01HL-01803-23 0014 Arteriosclerosis, glomerulonephritis, rheumatic fever - Regenerated endothelium on lipid accumulation in arterial wall (rabbit)
P01HL-03174-23 0010 Mechanisms of acute vascular reaction to injury - Search for mutagens in the human blood (bacteria, animals)
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
P01HL-06835-17 0021 Cardiovascular disease - Animal study in atherosclerosis (dog, guinea pig)
** P01HL-06835-17 0026 Cardiovascular disease - Lipoproteins (human, guinea pig)
** P01HL-08974-14 0024 Natural and experimental atherosclerosis - Atherosclerosis, sterol and lipoprotein metabolism in nonhuman primates
R01HL-09610-14 Control of cholesterol metabolism--Bile acid transport
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
** P01HL-13262-07 0016 Arterial wall in atherosclerosis - Lipids in elastin preparations from atherosclerotic plaques (human, animals)
R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)
P50HL-14236-05 0005 Prevention of premature arteriosclerosis - Genetically hyperlipidemic and hypolipidemic rats
R01HL-15793-06 Molecular aspects of erythrocyte membrane resealing (human)
R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
** R01HL-16101-05 Protein-lipid interaction (bacteria, models)
P01HL-16137-05 0001 Alveolar biology - Chemical characterization of surfactant system--Lipid and lipid protein fractions
R01HL-16421-08 Oeterminants of RBC deformability and capillary flow (human, mice)
** R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
R01HL-16725-03 Physiological regulation of pulmonary surfactant (dogs, rats)
P60HL-17269-04 0014 National heart and blood vessel research and demonstration center - Physio-chemical nature of lipid deposits in arterial wall (human)
** R01HL-17567-03 Lipoprotein-cytolytic toxin interaction (Staphylococcus aureus, mammals, human)
R01HL-18004-02 Transport through arterial wall--Biophysical aspects (rabbits)
** R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
** R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
** P01HL-18577-03 0005 Lipoproteins--Cell surface interactions - Chemical synthesis of apolipoproteins and apoliprotein fragments
P50HL-19185-02 0002 Pulmonary SCOR--Neonatal respiratory distress syndromes - Biochemistry, ultrastructure--Pulmonary surface active material (human, animal)
R01HL-19676-02 Physico-chemical interactions in pulmonary surfactant
R01HL-19982-02 Blood coagulation--Protein-metal ion-lipid interactions
** R01HL-20317-02 Procoagulant lipoproteins--Biochemistry and bioactivity (goats, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-20924-02 Atherosclerosis and arterial cell functions (human, rabbits)
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
** P01HL-20948-02 0003 Molecular basis of cholesterol metabolism - LOL pathway in vivo (human, rats, guinea pigs)
** P01HL-20993-02 0007 Population dynamics of arterial cells in atherogenesis - Interaction of lipoproteins in hypercholesteremia (human, swine)
R23HL-21559-01 Oxygen supply and blood flow through aortic vasa vasorum (dogs)
R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)
R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
R01HL-22174-01 Assembly of membranes in heart and yeast mitochondria
M P01HL-22619-01 Cellular mechanisms of heart failure
** P01HL-22619-01 0011 Cellular mechanisms of heart failure - Reaction of lipoproteins and apolipoproteins with lipoprotein lipase (cattle)
M P01HL-22633-01 Cellular and molecular biology of lipoprotein metabolism
** P01HL-22633-01 0001 Cellular and molecular biology of lipoprotein metabolism - Secretion of lipoproteins by the perfused liver (rats, rabbits)
** P01HL-22633-01 0004 Cellular and molecular biology of lipoprotein metabolism - Lipid-lipid and lipid-protein interactions in serum lipoproteins (human, rats)
** P01HL-22633-01 9002 Cellular and molecular biology of lipoprotein metabolism - Lipoprotein laboratory core
N01HV-22917-11 Lipid research clinic (human)

ALPHA LIPOPROTEINS

SEE LIPOPROTEINS BLOOD, HOL

BETA LIPOPROTEINS

SEE LIPOPROTEINS BLOOD, LDL

LIPOPROTEINS BLOOD

** N01HI-32926-10 Analysis of lipoproteins (animals)
R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
** R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)
R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
R01HL-03734-18 Metabolism of arterial tissue in atherosclerosis (rabbits)
** R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)
** P01HL-06285-18 0203 Cardiovascular-respiratory physiology and biochemistry - Pathways of lipid transport in the blood (animals)
P01HL-06285-18 0207 Cardiovascular-respiratory physiology and biochemistry - Feedback control of cholesterol synthesis in non-hepatic tissues (animals)
P01HL-06835-17 0062 Cardiovascular disease - Role of collagen in atherosclerosis (dogs, pigeons)
R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
R01HL-08634-15 Enzymic cholesterol synthesis (human, rats, protozoa, yeast)
P01HL-09011-15 0005 A research and resource program in blood - Characterization of hepatitis-B antigen and the cause of serum hepatitis (human)
** R01HL-09739-13 Biophysical studies of proteins (human)
** R01HL-10642-18 Plasma cholesterol metabolism (human, macaca)
R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
** R01HL-11901-12 0001 Effects of metabolic surgery on the hyperlipidemias - Partial ileal bypass (human)
R01HL-11901-12 0004 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Cholesterol dynamics studies (rats, rabbits, dogs)
** R01HL-11901-12 0019 Effects of metabolic surgery on the hyperlipidemias - Cholesterol, bileacids, lipoproteins in obese humans
** R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
M P01HL-13262-07 Arterial wall in atherosclerosis
** P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)
** R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
** R01HL-13626-06 Lipoprotein lipase and lipoprotein removal (human, rats, bacteria)
R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
P50HL-14141-05 0008 SCOR for atherosclerosis in childhood - Core laboratory
M P50HL-14164-07 A/S SCOR--Comparative and experimental atherosclerosis
** P50HL-14164-07 0029 A/S SCOR--Comparative and experimental atherosclerosis - Oevelopment of pigeon substrains
P50HL-14164-07 0030 A/S SCOR--Comparative and experimental atherosclerosis - Morphology, angiochemistry--Oiet induced lesions in African green monkey
** P50HL-14164-07 0033 A/S SCOR--Comparative and experimental atherosclerosis - Comparative studies of lipoprotein distribution and metabolism (monkeys)
** P50HL-14164-07 0034 A/S SCOR--Comparative and experimental atherosclerosis - Core lipid analytic laboratory
** P50HL-14164-07 2035 A/S SCOR--Comparative and experimental atherosclerosis - Lipid metabolism--Interaction with arterial metabolism (monkey, pigeon)
P50HL-14164-07 0036 A/S SCOR--Comparative and experimental atherosclerosis - Connective tissue metabolism--Interaction with arterial metabolism (monkeys)
P50HL-14164-07 0041 A/S SCOR--Comparative and experimental atherosclerosis - Nonhuman primate pediatric atherosclerosis risk factor
M P50HL-14197-07 Support for center of research on arteriosclerosis
** P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)
** P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Oiets and drugs affecting lipid metabolism (human)
** P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
** P50HL-14197-07 0008 Support for center of research on arteriosclerosis - Core facility--Lipoprotein preparation, immunochemistry
P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
** P50HL-14230-07 9001 A/S SCOR--Lipids, atherosclerosis and thrombosis - Core lipid laboratory
** P50HL-14236-05 0004 Prevention of premature arteriosclerosis - Plasma lipoproteins (human, rats)
** P50HL-14236-05 0008 Prevention of premature arteriosclerosis - Lipoproteins of cell membranes (human)
M P50HL-14237-07 Support for arteriosclerosis center
** P50HL-14237-07 0001 Support for arteriosclerosis center - Role of apolipoproteins in lipoprotein catabolism (human, rats)
** P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
** P50HL-14237-07 0003 Support for arteriosclerosis center - Structure of lipoproteins and apolipoproteins (human, rabbits)
** P50HL-14237-07 0004 Support for arteriosclerosis center - Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys)
** P50HL-14237-07 0007 Support for arteriosclerosis center - Core laboratories
** R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
R01HL-14781-08 Lipid deposition in mammalian cells (mice)
** R01HL-14990-07 Lipid transport in avian species (chickens)
M P50HL-15062-07 Study of lipoproteins, artery wall, and atherosclerosis
** P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
** P50HL-15062-07 0007 Study of lipoproteins, artery wall, and atherosclerosis - Physical chemistry of lipid-protein interaction (human)
** P50HL-15062-07 0009 Study of lipoproteins, artery wall, and atherosclerosis - Plasma lipoprotein biosynthesis (Rhesus monkeys)
** P50HL-15062-07 0012 Study of lipoproteins, artery wall, and atherosclerosis - Lipoprotein stimulation of arterial smooth muscle cell proliferation (mammals)
** P50HL-15062-07 0013 Study of lipoproteins, artery wall, and atherosclerosis - Radioimmunoassay of apolipoproteins (human, monkeys)
** P50HL-15062-07 0019 Study of lipoproteins, artery wall, and atherosclerosis - Factors regulating lipoprotein-smooth muscle cell interaction (monkey)
P50HL-15062-07 0021 Study of lipoproteins, artery wall, and atherosclerosis - Core laboratories
P50HL-15103-07 0013 A/S SCOR--Early natural history of arteriosclerosis - Experimental models of atherosclerosis (monkeys)
** P50HL-15103-07 0014 A/S SCOR--Early natural history of arteriosclerosis - Biochemistry of atherosclerotic lesions (monkeys, human, cattle)
** R01HL-15263-06 Lecithin--Cholesterol acetyltransferase (human, rabbits)
** R01HL-15308-07 Assays for peptides of lipoproteins (human)
** R01HL-15427-06 Secretion of plasma lipoproteins (rats)
R01HL-15478-05 Lipid flux and collagen synthesis in atherosclerosis (rabbits)
R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
** R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
** R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
** R01HL-15949-05 Lipoprotein metabolism in relation to atherosclerosis (human, baboons)
R01HL-16294-04 Effectors of cholesterol synthesis (rats)
R01HL-16587-04 Cholesterol binding saponins and atherosclerosis (monkeys)
R01HL-16588-05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
R01HL-16774-04 Genetic epidemiology of hyperlipemia (Honolulu)
** R01HL-16807-02 Lipid structure of normal and hyperlipoproteins (human)
** P60HL-17269-04 0001 National heart and blood vessel research and demonstration center - Atherosclerosis--Arterial pathology and plasma lipids (human)
** P60HL-17269-04 0011 National heart and blood vessel research and demonstration center - Lipoprotein structure laboratory (human)
** P60HL-17269-04 0013 National heart and blood vessel research and demonstration center - Peptide synthesis laboratory (human)
** P60HL-17269-04 0014 National heart and blood vessel research and demonstration center - Physio-chemical nature of lipid deposits in arterial wall (human)
** P60HL-17269-04 0015 National heart and blood vessel research and demonstration center - Lipoprotein metabolism laboratory (human)
** P60HL-17269-04 0045 National heart and blood vessel research and demonstration center - Regulation of lipogenesis in hyperlipoproteinemia (human, tissue culture)
** P60HL-17269-04 0046 National heart and blood vessel research and demonstration center - Nuclear magnetic resonance laboratory
** P60HL-17269-04 0048 National heart and blood vessel research and demonstration center - Atherosclerosis--Lipoproteins and the arterial wall (human)
R01HL-17369-04 Arterial bypass surgery--Structure and metabolism (monkeys)
R01HL-17371-05 Regualtion of cholesteryl ester levels in the aorta (swine)
** R01HL-17463-03 Composition and structure of plasma lipoproteins (human, rabbits)
R01HL-17567-03 Lipoprotein-cytolytic toxin interaction (Staphylococcus aureus, mammals, human)
** R01HL-17597-05 Role of plasma lipoproteins in atherosclerosis (swine, human)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
** R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
R01HL-18152-03 Vascular injury and atherosclerosis (mice, coxsackievirus)
M P01HL-18574-03 Lipoprotein methodology and biomedical applications
** P01HL-18574-03 0001 Lipoprotein methodology and biomedical applications - Ultracentrifugal and electrophoretic lipoprotein methodology--Applications
** P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
** P01HL-18574-03 0005 Lipoprotein methodology and biomedical applications - Structure and function of lipoproteins
** P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
M P01HL-18577-03 Lipoproteins--Cell surface interactions
** P01HL-18577-03 0003 Lipoproteins--Cell surface interactions - Mechanism of lipid exchange in lipoproteins and cell membranes
** P01HL-18577-03 0004 Lipoproteins--Cell surface interactions - Analysis and chemical modification of proteins in lipid transport (human, dogs)
** P01HL-18577-03 0008 Lipoproteins--Cell surface interactions - Core laboratory 1
** P01HL-18577-03 0011 Lipoproteins--Cell surface interactions - Core laboratory 4
R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
P01HL-18645-03 0001 Biology of the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
** P01HL-18645-03 0004 Biology of the artery wall and atherosclerosis - Human arterial smooth muscle cell and lipoprotein interaction
** R01HL-18692-03 Glycosaminoglycans and lipoproteins of human plasma
** P01HL-18827-02 0005 Platelet vessel wall interactions in thrombogenesis - Platelet vessel wall interactions in thrombogenesis (human)
R01HL-18887-03 Hypolipidemic drugs--Effects on FFA-albumin association (human, cattle)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-19001-03 Atherosclerosis in bleedar and drug treated subjects (pigs)
** R01HL-19063-03 Cholesterol and lipoprotein metabolism (rat hepatocytes)
** P01HL-19242-02 0002 Study of vascular smooth muscle Vascular smooth muscle response to serum lipoproteins (rats)
P50HL-19362-02 0001 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of infant nutrition on atherosclerosis (baboons)
P50HL-19362-02 0003 A/S SCOR--Atherosclerosis in nonhuman primates - Heritability of characters related to atherosclerosis (baboons)
P50HL-19362-02 0005 A/S SCOR--Atherosclerosis in nonhuman primates - Hybridization to produce primate model of atherosclerosis (baboon, Rhesus)
P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of cigarette smoking on atherosclerosis (baboon)
P50HL-19362-02 0013 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Lipid biochemistry (baboons)
** R01HL-19459-03 Dynamics of atherogenesis and lipoprotein formation (human, rabbit)
R01HL-20189-01 Effects of renin on atherogenesis (rabbits)
R01HL-20197-02 Maintananca and repair of vascular endothelium (human, animals)
R01HL-20350-02 Crystal structure of lipids--Cholesterol
R01HL-20488-03 Cholestarol metabolism in diabetic man
R01HL-20645-01 Etiology of myocardial infaction (human)
** R01HL-20882-02 Interactions of plasma lipoproteins with arythrocytes (Rhesus, human)
** R01HL-20954-02 Hyperlipoproteinemia (rats, human)
R01HL-21260-02 Risk factor relationships of atherosclerosis (monkeys)
R01HL-21303-02 Collagen synthesis by cultured human vascular cells
** R01HL-21429-02 Transport of LDL in arterial wall (human, mammals)
** R01HL-21438-02 Structure and permeability of arterial endothelium (pigs)
** R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
** R01HL-21592-01 Lipoproteins and coagulation factors in atherosclerosis (pigeons)
R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)
** R01HL-22052-01 Organization of free cholesterol in serum lipoproteins (human, dogs)
** R01HL-22456-01 Lipoproteins in bioregulation of the immuna response (mice, human)
** R01HL-22570-01 Interactions of sterols in biological systems (human)
** R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)
** R01HL-22627-01 An inhibitor of platelet adhesion to artificial organs (human)
** P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
** P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)
** P01HL-22633-01 0004 Cellular and molecular biology of lipoprotein metabolism - Lipid-lipid and lipid-protein interactions in serum lipoproteins (human, rats)
R01HL-22967-01 Structure and function of heparin releasable lipases (swine, human)
** R01HL-22983-01 Studies on the catabolism of plasma lipoproteins (rats)
** R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)
** N01HV-53015-09 Establishment of a lipid research clinic (human)
N01HV-62955-04 Data collection in clinical pathology and morbid anatomy (men)
** N01HV-72917-00 Plasma lipoproteins in identical twins

LIPOPROTEINS BLOOD, DYSLIPOPROTEINEMIAS

** P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
** P01HL-08974-14 0024 Natural and experimental atherosclerosis - Atherosclerosis, sterol and lipoprotein metabolism in nonhuman primates
P50HL-14237-07 0003 Support for arteriosclerosis center - Structure of lipoproteins and apolipoproteins (human, rabbits)
P50HL-14237-07 0005 Support for arteriosclerosis center - Genetic determinants of apolipoprotein variability in lipoproteins (human)
** R01HL-15308-07 Assays for peptides of lipoproteins (human)
M P01HL-18577-03 Lipoproteins--Cell surface interactions
P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
** R01HL-22121-02 Dyslipoproteinemia in diabetes and vascular disease (human)
N01HV-53029-04 Nonhuman primate models of atherosclerosis
N01HV-53030-05 Nonhuman primate models of atherosclerosis and hypertension
N01HV-53031-04 Nonhuman primata models of atherosclerosis and hypertension
N01HV-62905-02 Non human primate models of artariosclerosis
N01HV-72978-02 Development of models of hypertension
N01HV-72980-02 Development of models of hypertension

LIPOPROTEINS BLOOD, HDL

SEE ALSO METABOLIC DISORDERS INBORN, HYPOLIPOPROTEINEMIAS FAMILIAL, TANGIER DISEASE

P01HL-03174-23 0009 Mechanisms of acute vascular reaction to injury - Mast cell lipid interaction (human, rats)
R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
P01HL-06285-18 0203 Cardiovascular-respiratory physiology and biochemistry - Pathways of lipid transport in the blood (animals)
P01HL-06285-18 0204 Cardiovascular-respiratory physiology and biochemistry - Lipoprotein lipase and triglyceride transport in chylomicrons (guinea pig, rat)
P01HL-06285-18 0205 Cardiovascular-respiratory physiology and biochemistry - Assimilation of cholesterol in chylomicrons and VLDL (rabbits)
R01HL-06481-15 Lipid metabolism (human, rats)
P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
** P01HL-08974-14 0024 Natural and experimental atherosclerosis - Atherosclerosis, sterol and lipoprotein metabolism in nonhuman primates
** R01HL-10642-18 Plasma cholesterol metabolism (human, macaca)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)
P01HL-13262-07 0025 Arterial wall in atherosclerosis - Phospholipid and cholesterol esters
P50HL-14164-07 0029 A/S SCOR--Comparative and experimental atherosclerosis - Development of pigeon substrains
P50HL-14164-07 0033 A/S SCOR--Comparative and experimental atherosclerosis - Comparative studies of lipoprotein distribution and metabolism (monkeys)
P50HL-14164-07 0035 A/S SCOR--Comparative and experimental atherosclerosis - Lipid metabolism--Interaction with arterial metabolism (monkey, pigeon)
P50HL-14164-07 0037 A/S SCOR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)
P50HL-14237-07 0001 Support for arteriosclerosis center - Role of apolipoproteins in lipoprotein catabolism (human, rats)
P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
P50HL-14237-07 0003 Support for arteriosclerosis center - Structure of lipoproteins and apolipoproteins (human, rabbits)
P50HL-14237-07 0004 Support for arteriosclerosis center - Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys)
P50HL-14237-07 0005 Support for arteriosclerosis center - Genetic determinants of apolipoprotein variability in lipoproteins (human)
R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
P50HL-15062-07 0009 Study of lipoproteins, artery wall, and atherosclerosis - Plasma lipoprotein biosynthesis (Rhesus monkeys)
P50HL-15062-07 0013 Study of lipoproteins, artery wall, and atherosclerosis - Radioimmunoassay of apolipoproteins (human, monkeys)
P50HL-15062-07 0019 Study of lipoproteins, artery wall, and atherosclerosis - Factors regulating lipoprotein-smooth muscle cell interaction (monkey)
P50HL-15103-07 0014 A/S SCOR--Early natural history of arteriosclerosis - Biochemistry of atherosclerotic lesions (monkeys, human, cattle)
** R01HL-15308-07 Assays for peptides of lipoproteins (human)
** R01HL-15427-06 Secretion of plasma lipoproteins (rats)
** R01HL-16059-06 Structure and function of serum lipoproteins (cattle, human)
R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
** P60HL-17269-04 0009 National heart and blood vessel research and demonstration center - Physical methods laboratory (high density lipoproteins)
P60HL-17269-04 0015 National heart and blood vessel research and demonstration center - Lipoprotein metabolism laboratory (human)
** R01HL-17463-03 Composition and structure of plasma lipoproteins (human, rabbits)
R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
P01HL-18574-03 0001 Lipoprotein methodology and biomedical applications - Ultracentrifugal and electrophoretic lipoprotein methodology--Applications
P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
P01HL-18574-03 0005 Lipoprotein methodology and biomedical applications - Structure and function of lipoproteins
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
** P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
P01HL-18577-03 0004 Lipoproteins--Cell surface interactions - Analysis and chemical modification of proteins in lipid transport (human, dogs)
R01HL-18692-03 Glycosaminoglycans and lipoproteins of human plasma
** R01HL-19168-03 Biosynthesis of plasma lipoprotein (rats, rabbits)
P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
** R01HL-19250-03 Mechanism of plasma cholesterol esterification (human)
R01HL-19459-03 Dynamics of atherogenesis and lipoprotein formation (human, rabbit)
** R01HL-20061-02 Serum lipoproteins and cell cholesterol metabolism (rats, human)
R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
R01HL-20645-01 Etiology of myocardial infaction (human)
** R01HL-20954-02 Hyperlipoproteinemia (rats, human)
R01HL-21303-02 Collagen synthesis by cultured human vascular cells
R01HL-22052-01 Organization of free cholesterol in serum lipoproteins (human, dogs)
R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
R01HL-22570-01 Interactions of sterols in biological systems (human)
R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)
** P01HL-22619-01 0012 Cellular mechanisms of heart failure - Apolipoproteins in hypertriglyceridemia (human)
P01HL-22633-01 0001 Cellular and molecular biology of lipoprotein metabolism - Secretion of lipoproteins by the perfused liver (rats, rabbits)
P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)
** P01HL-22633-01 0004 Cellular and molecular biology of lipoprotein metabolism - Lipid-lipid and lipid-protein interactions in serum lipoproteins (human, rats)
** R01HL-22682-01 Structure and function of high density lipoprotein (human, rat)
** R01HL-22812-01 Regulation of hepatic production of HDL (rats)
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

LIPOPROTEINS BLOOD, HYPERLIPOPROTEINEMIA

SEE ALSO METABOLIC DISORDERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL

** R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
P01HL-06835-17 0014 Cardiovascular disease - Dietary induction of severe atherosclerosis and its prevention (dogs)
P01HL-06835-17 0021 Cardiovascular disease - Animal study in atherosclerosis (dog, guinea pig)
R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
** R01HL-11901-12 0013 Effects of metabolic surgery on the hyperlipidemias - Human cholesterol and bile acids dynamics--Ileal bypass
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
** R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
R01HL-13626-06 Lipoprotein lipase and lipoprotein removal (human, rats, bacteria)
R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
P50HL-14138-05 0009 Center for research on atherosclerosis - Core angiographic-diagnostic laboratory (human, dogs, birds)
P50HL-14164-07 0030 A/S SCOR--Comparative and experimental atherosclerosis - Morphology, angiochemistry--Diet induced lesions in African green monkey

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-14236-05 0002 Prevention of premature arteriosclerosis - Myocardial blood flow in patients with coronary artherosclerosis
P50HL-14236-05 0004 Prevention of premature arteriosclerosis - Plasma lipoproteins (human, rats)
** P50HL-14236-05 0007 Prevention of premature arteriosclerosis - Exercise stress testing hyperlipoproteinemia (human)
P50HL-14236-05 0008 Prevention of premature arteriosclerosis - Lipoproteins of cell membranes (human)
M P50HL-14237-07 Support for arteriosclerosis center
P50HL-14237-07 0001 Support for arteriosclerosis center - Role of apolipoproteins in lipoprotein catabolism (human, rats)
P50HL-14237-07 0003 Support for arteriosclerosis center - Structure of lipoproteins and apolipoproteins (human, rabbits)
P50HL-14237-07 0004 Support for arteriosclerosis center - Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys)
** P50HL-14237-07 0005 Support for arteriosclerosis center - Genetic determinants of apolipoprotein variability in lipoproteins (human)
** P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
P50HL-15062-07 0009 Study of lipoproteins, artery wall, and atherosclerosis - Plasma lipoprotein biosynthesis (Rhesus monkeys)
P50HL-15062-07 0013 Study of lipoproteins, artery wall, and atherosclerosis - Radioimmunoassay of apolipoproteins (human, monkeys)
M P50HL-15103-07 A/S SCDR--Early natural history of arteriosclerosis
P50HL-15103-07 0001 A/S SCDR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
** P50HL-15103-07 0013 A/S SCDR--Early natural history of arteriosclerosis - Experimental models of atherosclerosis (monkeys)
** R01HL-15263-06 Lecithin--Cholesterol acetyltransferase (human, rabbits)
M P01HL-15265-05 Program on surgical control of the hyperlipidemias
** P01HL-15265-05 0003 Program on surgical control of the hyperlipidemias - Central lipid laboratory
** P01HL-15265-05 0004 Program on surgical control of the hyperlipidemias - Coordinating center and central data processing facility
** P01HL-15265-05 0011 Program on surgical control of the hyperlipidemias - Central electrocardiography laboratory (human)
** P01HL-15265-05 0012 Program on surgical control of the hyperlipidemias - Central arteriography--Radiography laboratory (human)
** P01HL-15265-05 0013 Program on surgical control of the hyperlipidemias - Clinical center - Minnesota
** P01HL-15265-05 0014 Program on surgical control of the hyperlipidemias - Arkansas clinical center
** R01HL-15308-07 Assays for peptides of lipoproteins (human)
R01HL-17463-03 Composition and structure of plasma lipoproteins (human, rabbits)
P50HL-18318-03 0014 Pathogenesis and complications of hypertension - Arterial metabolism and atherogenesis (rat, rabbit)
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
R01HL-19084-03 Structure and function of serum lipoproteins (human)
P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
R01HL-20381-03 Long-term study of diabetic vascular disease (human)
R01HL-20391-03 Polydisperse LDL--Structure, metabolism and function (human)
** R01HL-20397-03 VLDL-TG metabolism in diabetes mellitis (human, rat)
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
** R01HL-20954-02 Hyperlipoproteinemia (rats, human)
** R01HL-21260-02 Risk factor relationships of atherosclerosis (monkeys)
R01HL-21303-02 Collagen synthesis by cultured human vascular cells
R01HL-21416-02 Atherosclerosis in new modles of diabetes mellitus
R01HL-22367-01 Estrogen receptors in very low density lipoproteins (chicken livers)
** R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)
M P01HL-22619-01 Cellular mechanisms of heart failure
** P01HL-22619-01 0011 Cellular mechanisms of heart failure - Reaction of lipoproteins and apolipoproteins with lipoprotein lipase (cattle)
** P01HL-22619-01 0012 Cellular mechanisms of heart failure - Apolipoproteins in hypertriglyceridemia (human)
R01HL-22967-01 Structure and function of heparin releasable lipases (swine, human)
** N01HV-12156-10 Lipid research clinic
** N01HV-12157-14 Lipid research clinic (human)
** N01HV-12158-10 Establishment of a lipid research clinic
** N01HV-12159-09 Lipid research clinic
** N01HV-12160-15 Establishment of a lipid research clinic
** N01HV-22913-09 Lipid research clinic
** N01HV-22914-08 Establishment of a lipid research clinic
** N01HV-22915-11 Establishment of lipid research clinic
** N01HV-22916-16 Establishment of a lipid research clinic
** N01HV-22917-11 Lipid research clinic (human)
** N01HV-22932-09 Establishment of a lipid research clinic
** N01HV-32931-09 Establishment of a lipid research clinic center
** N01HV-53015-09 Establishment of a lipid research clinic (human)

LIPOPROTEINS BLOOD, HYPOLIPOPROTEINEMIA

R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
R01HL-20954-02 Hyperlipoproteinemia (rats, human)
R01HL-21303-02 Collagen synthesis by cultured human vascular cells

LIPOPROTEINS BLOOD, LDL

SEE ALSD METABDLIC DISORDERS INBORN, HYPERLIPOPRDTEINEMIAS FAMILIAL, TYPE II
SEE ALSO METABOLIC DISDRDERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE III
SEE ALSD METABOLIC DISORDERS INBORN, HYPERLIPDPROTEINEMIAS FAMILIAL, TYPE V
SEE ALSD METABOLIC DISDRDERS INBDRN, HYPOLIPDPROTEINEMIAS FAMILIAL, ABETALIPOPROTEINEMIA
P01HL-03174-23 0009 Mechanisms of acute vascular reaction to injury - Mast cell lipid interaction (human, rats)
R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
P01HL-06285-18 0203 Cardiovascular-respiratory physiology and biochemistry - Pathways of lipid transport in the blood (animals)
P01HL-06285-18 0204 Cardiovascular-respiratory physiology and biochemistry - Lipoprotein lipase and triglyceride transport in chylomicrons (guinea pig, rat)
P01HL-06285-18 0205 Cardiovascular-respiratory physiology and biochemistry - Assimilation of cholesterol in chylomicrons and VLDL (rabbits)
P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
** R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
** R01HL-10316-13 Structural studies on low density serum lipoproteins (human)
R01HL-11901-12 0001 Effects of metabolic surgery on the hyperlipidemias - Partial ileal bypass (human)
R01HL-11901-12 0013 Effects of metabolic surgery on the hyperlipidemias - Human cholesterol and bile acids dynamics--Ileal bypass
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)
P01HL-13262-07 0025 Arterial wall in atherosclerosis - Phospholipid and cholesterol esters
P50HL-14164-07 0027 A/S SCDR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (squirrel monkey)
P50HL-14164-07 0029 A/S SCDR--Comparative and experimental atherosclerosis - Development of pigeon substrains
P50HL-14164-07 0031 A/S SCDR--Comparative and experimental atherosclerosis - Changes in endothelial permeability associated with atherosclerosis (pigeon)
P50HL-14164-07 0033 A/S SCDR--Comparative and experimental atherosclerosis - Comparative studies of lipoprotein distribution and metabolism (monkeys)
P50HL-14164-07 0035 A/S SCDR--Comparative and experimental atherosclerosis - Lipid metabolism--Interaction with arterial metabolism (monkey, pigeon)
P50HL-14164-07 0037 A/S SCDR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)
P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
P50HL-14230-07 0094 A/S SCDR--Lipids, atherosclerosis and thrombosis - Studies of atherosclerosis and regression (monkeys)
P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
P50HL-14237-07 0003 Support for arteriosclerosis center - Structure of lipoproteins and apolipoproteins (human, rabbits)
P50HL-14237-07 0004 Support for arteriosclerosis center - Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys)
P50HL-14237-07 0005 Support for arteriosclerosis center - Genetic determinants of apolipoprotein variability in lipoproteins (human)
P50HL-14237-07 0006 Support for arteriosclerosis center - Drug treatment of familial hyperbetalipoproteinemia (human)
R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
P50HL-15062-07 0012 Study of lipoproteins, artery wall, and atherosclerosis - Lipoprotein stimulation of arterial smooth muscle cell proliferation (mammals)
P50HL-15062-07 0013 Study of lipoproteins, artery wall, and atherosclerosis - Radioimmunoassay of apolipoproteins (human, monkeys)
P50HL-15062-07 0019 Study of lipoproteins, artery wall, and atherosclerosis - Factors regulating lipoprotein-smooth muscle cell interaction (monkey)
P50HL-15103-07 0014 A/S SCDR--Early natural history of arteriosclerosis - Biochemistry of atherosclerotic lesions (monkeys, human, cattle)
R01HL-15308-07 Assays for peptides of lipoproteins (human)
R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
R01HL-15949-05 Lipoprotein metabolism in relation to atherosclerosis (human, baboons)
R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
** R01HL-16419-03 Arterial uptake of lipoprotein--Kinetic analysis (rabbits)
R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
P60HL-17269-04 0001 National heart and blood vessel research and demonstration center - Atherosclerosis--Arterial pathology and plasma lipids (human)
P60HL-17269-04 0011 National heart and blood vessel research and demonstration center - Lipoprotein structure laboratory (human)
P60HL-17269-04 0015 National heart and blood vessel research and demonstration center - Lipoprotein metabolism laboratory (human)
P60HL-17269-04 0045 National heart and blood vessel research and demonstration center - Regulation of lipogenesis in hyperlipoproteinemia (human, tissue culture)
P60HL-17269-04 0048 National heart and blood vessel research and demonstration center - Atherosclerosis--Lipoproteins and the arterial wall (human)
R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
R01HL-18553-03 Membrane defects in familial hypercholesteremia (human)
P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
P01HL-18574-03 0005 Lipoprotein methodology and biomedical applications - Structure and function of lipoproteins
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
** P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
P01HL-18577-03 0004 Lipoproteins--Cell surface interactions - Analysis and chemical modification of proteins in lipid transport (human, dogs)
R01HL-18692-03 Glycosaminoglycans and lipoproteins of human plasma
R01HL-18736-03 Protein transport through arterial tissue (rabbits)
P01HL-18827-02 0005 Platelet vessel wall interactions in thrombogenesis - Platelet vessel wall interactions in thrombogenesis (human)
R01HL-18878-03 Familial hypercholesteremia--Studies of fibroblasts (human)
** R01HL-19084-03 Structure and function of serum lipoproteins (human)
** R01HL-19095-03 Laser spectroscopy of lipoproteins (human)
R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
R01HL-19250-03 Mechanism of plasma cholesterol esterification (human)
R01HL-19459-03 Dynamics of atherogenesis and lipoprotein formation (human, rabbit)
R01HL-20061-02 Serum lipoproteins and cell cholesterol metabolism (rats, human)
** R01HL-20391-03 Polydisperse LDL--Structure, metabolism and function (human)
R01HL-20645-01 Etiology of myocardial infaction (human)
** R01HL-20712-02 Characterization of the B proteins of serum lipoproteins (human)
R01HL-20882-02 Interactions of plasma lipoproteins with erythrocytes (Rhesus, human)
M P01HL-20948-02 Molecular basis of cholesterol metabolism

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

* P01HL-20948-02 0001 Molecular basis of cholesterol metabolism - Biochemical and ultrastructural characterization of LDL in human fibroblasts
** P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
** P01HL-20948-02 0003 Molecular basis of cholesterol metabolism - LDL pathway in vivo (human, rats, guinea pigs)
** P01HL-20948-02 0004 Molecular basis of cholesterol metabolism - Genetic analysis of the LDL pathway (human)
** R01HL-20954-02 Hyperlipoproteinemia (rats, human)
R01HL-21303-02 Collagen synthesis by cultured human vascular cells
R01HL-22052-01 Organization of free cholesterol in serum lipoproteins (human, dogs)
R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
R01HL-22570-01 Interactions of sterols in biological systems (human)
R01HL-22623-01 Polyamines cellular mediators of atherogenesis (human)
P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)

LIPOPROTEINS BLOOD, VLDL

SEE ALSO METABOLIC DISORDERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE III
SEE ALSO METABOLIC DISORDERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE IV
P01HL-03174-23 0009 Mechanisms of acute vascular reaction to injury - Mast cell lipid interaction (human, rats)
P01HL-06285-18 0203 Cardiovascular-respiratory physiology and biochemistry - Pathways of lipid transport in the blood (animals)
P01HL-06285-18 0204 Cardiovascular-respiratory physiology and biochemistry - Lipoprotein lipase and triglyceride transport in chylomicrons (guinea pig, rat)
** P01HL-06285-18 0205 Cardiovascular-respiratory physiology and biochemistry - Assimilation of cholesterol in chylomicrons and VLDL (rabbits)
R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
R01HL-10642-18 Plasma cholesterol metabolism (human, macaca)
** R01HL-10933-13 Fat metabolism and atherosclerosis (rabbits, cattle, human, rats)
R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)
P50HL-14164-07 0027 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (squirrel monkey)
P50HL-14164-07 0029 A/S SCOR--Comparative and experimental atherosclerosis - Development of pigeon substrains
P50HL-14164-07 0033 A/S SCOR--Comparative and experimental atherosclerosis - Comparative studies of lipoprotein distribution and metabolism (monkeys)
P50HL-14164-07 0035 A/S SCOR--Comparative and experimental atherosclerosis - Lipid metabolism--Interaction with arterial metabolism (monkey, pigeon)
P50HL-14164-07 0037 A/S SCOR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
P50HL-14237-07 0001 Support for arteriosclerosis center - Role of apolipoproteins in lipoprotein catabolism (human, rats)
P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
P50HL-14237-07 0003 Support for arteriosclerosis center - Structure of lipoproteins and apolipoproteins (human, rabbits)
P50HL-14237-07 0004 Support for arteriosclerosis center - Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys)
** P50HL-14237-07 0005 Support for arteriosclerosis center - Genetic determinants of apolipoprotein variability in lipoproteins (human)
P50HL-14237-07 0006 Support for arteriosclerosis center - Drug treatment of familial hyperbetalipoproteinemia (human)
** R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
R01HL-14990-07 Lipid transport in avian species (chickens)
P50HL-15062-07 0009 Study of lipoproteins, artery wall, and atherosclerosis - Plasma lipoprotein biosynthesis (Rhesus monkeys)
P50HL-15062-07 0019 Study of lipoproteins, artery wall, and atherosclerosis - Factors regulating lipoprotein smooth muscle cell interaction (monkey)
P50HL-15103-07 0014 A/S SCOR--Early natural history of arteriosclerosis - Biochemistry of atherosclerotic lesions (monkeys, human, cattle)
R01HL-15263-06 Lecithin--Cholesterol acetyltransferase (human, rabbits)
R01HL-15308-07 Assays for peptides of lipoproteins (human)
** R01HL-15427-06 Secretion of plasma lipoproteins (rats)
R01HL-15648-06 Lipid metabolism--Transport by lateral diffusion (human, rabbit, cattle)
R01HL-15949-05 Lipoprotein metabolism in relation to atherosclerosis (human, baboons)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
P60HL-17269-04 0001 National heart and blood vessel research and demonstration center - Atherosclerosis--Arterial pathology and plasma lipids (human)
P60HL-17269-04 0011 National heart and blood vessel research and demonstration center - Lipoprotein structure laboratory (human)
P60HL-17269-04 0013 National heart and blood vessel research and demonstration center - Peptide synthesis laboratory (human)
P60HL-17269-04 0045 National heart and blood vessel research and demonstration center - Regulation of lipogenesis in hyperlipoproteinemia (human, tissue culture)
P60HL-17269-04 0048 National heart and blood vessel research and demonstration center - Atherosclerosis--Lipoproteins and the arterial wall (human)
** R01HL-17463-03 Composition and structure of plasma lipoproteins (human, rabbits)
P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
P01HL-18574-03 0005 Lipoprotein methodology and biomedical applications - Structure and function of lipoproteins
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
** R01HL-18687-03 Pathophysiology of genetic hypertriglycerinemias (human)
R01HL-18705-03 Regulation of plasma triglyceride metabolism (rats)
R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
** R01HL-19084-03 Structure and function of serum lipoproteins (human)
** R01HL-19095-03 Laser spectroscopy of lipoproteins (human)
** R01HL-19168-03 Biosynthesis of plasma lipoprotein (rats, rabbits)
R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
R01HL-19250-03 Mechanism of plasma cholesterol esterification (human)
R01HL-20391-03 Polydisperse LDL--Structure, metabolism and function (human)
** R01HL-20397-03 VLDL-TG metabolism in diabetes mellitis (human, rat)
R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
** R01HL-20712-02 Characterization of the B proteins of serum lipoproteins (human)
** R01HL-20954-02 Hyperlipoproteinemia (rats, human)
R01HL-21303-02 Collagen synthesis by cultured human vascular cells
R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
** R01HL-22367-01 Estrogen receptors in very low density lipoproteins (chicken livers)
R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)
P01HL-22619-01 0011 Cellular mechanisms of heart failure - Reaction of lipoproteins and apolipoproteins with lipoprotein lipase (cattle)
** P01HL-22619-01 0012 Cellular mechanisms of heart failure - Apolipoproteins in hypertriglyceridemia (human)
P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
** R01HL-22748-01 Effect of bile sequestration on VLDL metabolism (human)
R01HL-22812-01 Regulation of hepatic production of HDL (rats)
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

LIPOPROTEINS TRANSPORT

SEE PROTEINS TRANSPORT

LIPOSOMES

SEE CELL COMPONENTS, LIPOSOMES

LIPOTROPIC FACTORS

R01HL-12085-10 Lipoprotein carbohydrate metabolism (human, rats)
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
R01HL-18692-03 Glycosaminoglycans and lipoproteins of human plasma

LIPOTROPIN, PITUITARY

SEE LIPID MOBILIZING FACTORS PITUITARY

LIPOXIDASE

SEE OXYGENASES, LIPOXYGENASE

LIPOXYGENASE

SEE OXYGENASES, LIPOXYGENASE

LIQUID BREATHING

SEE RESPIRATORY FUNCTION, LIQUIDS BREATHING

LIQUID CRYSTALS

SEE PHYSICAL PROPERTIES, CRYSTALS, LIQUID

LIQUID DYNAMICS

SEE PHYSICAL PROPERTIES, FLUID DYNAMICS (GENERAL)

LIQUID FLOW

SEE PHYSICAL PROPERTIES, FLUID FLOW

LIQUID FLOW IMPEDANCE

SEE PHYSICAL PROPERTIES, FLUID FLOW IMPEDANCE

LIQUID STATE

SEE PHYSICAL PROPERTIES, FLUID STATE

LITERATURE SURVEY

SEE PUBLICATIONS, LITERATURE SURVEY

LITHIUM

** P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
** P01HL-07896-15 0030 Environmental biomedical research program - Narcosis caused by inert gases at raised pressures (human, animals)
P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
P60HL-15169-05 0018 Support for center for sickle cell disease - Studies on sickle cell disease (human, rats, dogs)
R01HL-19653-03 Circulatory system effects of angiotensin analogs (rats)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)

LIVER

R01HL-00082-30 Transmembrane movements (barnacles, frogs, rats)
R01HL-07723-15 Reflex control of vascular capacitance in shock
R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
R01HL-15125-07 Molecular pathology of genetic disorders in man
R01HL-15427-06 Secretion of plasma lipoproteins (rats)
R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)

LIVER CELLS

P01HL-06285-18 0205 Cardiovascular-respiratory physiology and biochemistry - Assimilation of cholesterol in chylomicrons and VLDL (rabbits)
P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
P01HL-09011-15 0002 A research and resource program in blood - Biosynthesis of fibrinogen (dogs)
** P01HL-09011-15 0015 A research and resource program in blood - Regulation of synthesis and transport of diverse proteins in liver (rats)
R01HL-09610-14 Control of cholesterol metabolism--Bile acid transport
R01HL-10567-12 Erythropoietin--Immunoassay and characterization (dogs)
R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
R01HL-13193-09 Pathophysiology of post-traumatic and shock states (rodents, dogs)
R01HL-14990-07 Lipid transport in avian species (chickens)
R01HL-16445-05 Regulation of plasma protein biosynthesis (rats, rabbits)
P01HL-17419-04 0006 Studies on mechanisms of hemostasis - Effect of hormones, drugs and other agents on fibrinogen synthesis (chick)
R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)
R01HL-20577-03 The mechanism of action of vitamin K

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

LIVER CELLS, KUPFFER CELLS

P01HL-08682-15 0019 Regulation of the cardiovascular system - Hepatic immunophysiology and host-defense in shock (rat, dog, human)

LIVER CIRCULATION

** R01HL-03181-21 0029 Hemodynamics as applied to surgical problems - Indocyanine green clearance for estimation of hepatic blood flow (human)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
R01HL-10612-13 0020 Humoral factors in heart failure and hypertension - The control of renin release in the dog
R01HL-11901-12 0013 Effects of metabolic surgery on the hyperlipidemias - Human cholesterol and bile acids dynamics--Ileal bypass
R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)
** R01HL-15607-06 Physiological control uf splanchnic circulation (dogs)
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
** R01HL-18020-04 Splanchnic hemodynamics in man
R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
R01HL-20685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)
R01HL-21498-02 Pathophysiology of edema (rats, cats)
R01HL-22506-01 Hemodynamics of the clinical hypertensions
R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
** R01HL-23604-01 Hepatic microvascular regulatory mechanisms (rat)

LIVER CIRCULATION, PORTAL VEIN

R01HL-11901-12 0004 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Cholesterol dynamics studies (rats, rabbits, dogs)
R01HL-11901-12 0015 Effects of metabolic surgery on the hyperlipidemias - Portacaval shunt for cholesterol reduction (dogs, rabbits)
R01HL-16003-08 Sources and roles of calcium in smooth muscle excitation (rats)

LIVER CIRCULATION, VENOUS BYPASS OF LIVER

** R01HL-11901-12 0015 Effects of metabolic surgery on the hyperlipidemias - Portacaval shunt for cholesterol reduction (dogs, rabbits)
R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)
R01HL-15949-05 Lipoprotein metabolism in relation to atherosclerosis (human, baboons)
R01HL-18020-04 Splanchnic hemodynamics in man
** R01HL-20183-02 Portacaval shunt as treatment for hyperlipemia (pigs)

LIVER CIRCULATORY DISORDERS

R01HL-03181-21 0020 Hemodynamics as applied to surgical problems - Blood flow measurement--Cardiac output and regional flows (dogs)
R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)

LIVER CIRCULATORY DISORDERS, PORTAL HYPERTENSION

SEE ALSO GASTROINTESTINAL CIRCULATORY DISORDERS, ESOPHAGEAL VARICES
** R01HL-18020-04 Splanchnic hemodynamics in man
R01HL-20685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)
R01HL-21498-02 Pathophysiology of edema (rats, cats)

LIVER CIRRHOSIS

SEE LIVER DISORDERS, LIVER CIRRHOSIS

LIVER DISORDERS

SEE ALSO JAUNDICE
SEE ALSO LIVER METABOLISM
SEE ALSO METABOLIC DISORDERS (INBORN), PORPHYRIA
P01HL-08899-14 0061 Tolerance to respiratory gases in health and disease - Hepatic oxygenation and secretory functions (rats, dogs)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-11901-12 0001 Effects of metabolic surgery on the hyperlipidemias - Partial ileal bypass (human)
R01HL-17752-03 Purified human clotting factor IX--Immunologic studies (human)
R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)
R01HL-20092-02 Structural and biological properties of fibrinogen (human, rabbits)
R01HL-21159-02 Pathophysiological effects of hypoxia (rats)
R01HL-21404-01 Raman spectroscopy of erythrocyte and model membranes (human)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)

LIVER DISORDERS, FATTY LIVER

R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
R01HL-19168-03 Biosynthesis of plasma lipoprotein (rats, rabbits)
** R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

LIVER DISORDERS, HEPATIC COMA-ENCEPHALOPATHY

R01HL-11901-12 0015 Effects of metabolic surgery on the hyperlipidemias - Portacaval shunt for cholesterol reduction (dogs, rabbits)

LIVER DISORDERS, HEPATITIS

** N01HB-42971-12 Chimpanzees for hepatitis research
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
** P01HL-11310-12 0095 Mechanisms of cardiovascular disease - Blood and transfusion disorders (human, rats, monkeys)
R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

LIVER DISORDERS, HEPATITIS SERUM

SEE ALSO IMMUNOLOGY, ANTIGENS VIRAL, HEPATITIS B ANTIGEN (HBAG)
SEE ALSO VACCINES, VIRAL, HEPATITIS, SERUM
SEE ALSO VIRUSES, HEPATITIS
SEE ALSO VIRUSES, HEPATITIS B VIRUS (HBV)
** N01HB-62908-07 Maternal to infant transmission of hepatitis B (human)
M P01HL-09011-15 A research and resource program in blood
** P01HL-09011-15 0005 A research and resource program in blood - Characterization of hepatitis-B antigen and the cause of serum hepatitis (human)
** P01HL-09011-15 0018 A research and resource program in blood - Hepatitis B in normal populations--Epidemiology, risk factors and transmission
** P01HL-09011-15 0020 A research and resource program in blood - Passive immunization in the prevention of transmission of hepatitis B (human)
** P01HL-09011-15 0023 A research and resource program in blood - Evaluation of hepatitis B vaccine in endemic settings (human)
M P01HL-15596-05 Coagulation, fibrinolysis, hemostasis and hepatitis
** P01HL-15596-05 0016 Coagulation, fibrinolysis, hemostasis and hepatitis - Hepatitis-B antigen in whole blood, plasma and plasma fractions (human, monkeys)
** P60HL-17269-04 0035 National heart and blood vessel research and demonstration center - Blood resources--Research program in viral hepatitis (human)
** R01HL-20856-02 Platelet transfusions--Usage and complications (human)

LIVER DISORDERS, HEPATITIS VIRAL HUMAN

SEE ALSO LIVER DISORDERS, HEPATITIS SERUM
SEE ALSO VIRUSES, HEPATITIS
** P60HL-17269-04 0035 National heart and blood vessel research and demonstration center - Blood resources--Research program in viral hepatitis (human)
R01HL-20856-02 Platelet transfusions--Usage and complications (human)
** R01HL-22838-01 Post-transfusion hepatitis in newborn children
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

LIVER DISORDERS, HEPATORENAL SYNDROME

SEE ALSO METABOLIC DISORDERS INBORN, CEREBRO-HEPATO-RENAL SYNDROME
R01HL-18624-03 Study of kinins in hypertension and other diseases (human)

LIVER DISORDERS, LIVER CIRRHOSIS

SEE ALSO LIVER DISORDERS, HEPATORENAL SYNDROME
SEE ALSO METABOLIC DISORDERS INBORN, HEPATOLENTICULAR DEGENERATION
R01HL-03181-21 0029 Hemodynamics as applied to surgical problems - Indocyanine green clearance for estimation of hepatic blood flow (human)
P01HL-08899-14 0027 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on ethanol metabolism (human)
R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)
R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)
R01HL-17551-04 Biosynthesis and metabolism of procollagen (human, monkeys, mice)
R01HL-17711-05 Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs)
R01HL-18020-04 Splanchnic hemodynamics in man
R01HL-18624-03 Study of kinins in hypertension and other diseases (human)
R01HL-19225-02 0004 Types and mechanims of pulmonary hypertension - Structural changes in human pulmonary circulation (human, animals)
** R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-22051-01 Role of angiotensin II in vasopressin release (human)

LIVER DISORDERS, LIVER FAILURE

R01HL-11901-12 0018 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass--Postoperative complications (human)

LIVER DISORDERS, TOXIC LIVER DISORDERS, HEPATOTOXINS

** P01HL-06370-17 0006 Cardiopulmonary and renal pathology research center - Chemical basis of ultrastructural changes in disease (rats)

LIVER DISORDERS CHEMOTHERAPY

SEE ALSO BILIARY TRACT DISORDERS CHEMOTHERAPY
SEE ALSO LIVER PHARMACOLOGY
R01HL-18020-04 Splanchnic hemodynamics in man
R23HL-22882-01 Modulation by disease of effect of furosemide in man

LIVER DISORDERS DIAGNOSIS (INCL EXAMS)*

** R01HL-03181-21 0029 Hemodynamics as applied to surgical problems - Indocyanine green clearance for estimation of hepatic blood flow (human)
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)

LIVER EXAMINATIONS

SEE LIVER DISORDERS DIAGNOSIS (INCL EXAMS)*

LIVER FAILURE

SEE LIVER DISORDERS, LIVER FAILURE

LIVER FUNCTION

SEE ALSO BILE ACIDS AND SALTS, ENTEROHEPATIC CIRCULATION
R01HL-02254-23 Blood coagulation and hemorrhagic disease (human, animals)
P01HL-06835-17 0018 Cardiovascular disease - Fatty acid concentration (rats)
P01HL-08899-14 0027 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on ethanol metabolism (human)
** P01HL-08899-14 0055 Tolerance to respiratory gases in health and disease - Oxygen effects on organ functions--Extension of tolerance
** P01HL-08899-14 0061 Tolerance to respiratory gases in health and disease - Hepatic oxygenation and secretory functions (rats, dogs)
P01HL-09011-15 0021 A research and resource program in blood - Regulation of transfer RNA methylating enzymes (rats, E coli)
R01HL-11901-12 0012 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Animal atherosclerosis implications (pigeons, dogs, rabbits)
R01HL-11901-12 0013 Effects of metabolic surgery on the hyperlipidemias - Human cholesterol and bile acids dynamics--Ileal bypass
P01HL-18208-04 0003 Center for the study of blood cell rheology - Bone marrow microcirculation (rats, mice)
R01HL-19322-03 Role of pituitary hormones in the action of vitamin K (rats)
R01HL-19898-03 Desferrioxamine therapy in thalassemia (dogs, rats, children)
R01HL-21112-02 Aldosterone binding, clearance, and secretion in man
R23HL-21411-02 Control of extracellular lysosomal hydrolase levels (rats)
R01HL-21431-02 Factor II antigen and coagulant activity (human, animals)
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

LIVER METABOLISM

SEE ALSO LIVER PHARMACOLOGY
R01HL-05360-19 Cholesterol biosynthesis and its control in liver (rats)
R01HL-07878-16 Metabolism of neutral sterols (rats, rabbits)
R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
** P01HL-08682-15 0019 Regulation of the cardiovascular system - Hepatic immunophysiology and host-defense in shock (rat, dog, human)
** P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
R01HL-10612-13 0020 Humoral factors in heart failure and hypertension - The control of renin release in the dog
R01HL-11901-12 0001 Effects of metabolic surgery on the hyperlipidemias - Partial ileal bypass (human)
** R01HL-11901-12 0004 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Cholesterol dynamics studies (rats, rabbits, dogs)
R01HL-12138-08 Nutritional regulation of enzyme activity (rats, human)
R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
R01HL-13193-09 Pathophysiology of post-traumatic and shock states (rodents, dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-13302-D9 Uptake and metabolism of lipids by the liver (rats)
P50HL-14164-07 0037 A/S SCOR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
P5DHL-14237-07 0DD1 Support for arteriosclerosis center - Role of apolipoproteins in lipoprotein catabolism (human, rats)
** P5DHL-14237-07 0DD4 Support for arteriosclerosis center - Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys)
RD1HL-14313-D7 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
P5DHL-15062-07 D009 Study of lipoproteins, artery wall, and atherosclerosis - Plasma lipoprotein biosynthesis (Rhesus monkeys)
R01HL-15797-D5 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
RD1HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
R01HL-18219-04 Regulation of cholesterol metabolism (rats)
R01HL-19063-D3 Cholesterol and lipoprotein metabolism (rat hepatocytes)
** R01HL-19168-03 Biosynthesis of plasma lipoprotein (rats, rabbits)
R01HL-2D397-03 VLDL-TG metabolism in diabetes mellitis (human, rat)
P50HL-21D06-02 D003 Specialized center of research in arteriosclerosis - Transport of vitamin A in plasma (human, rat)
R01HL-21159-D2 Pathophysiological effects of hypoxia (rats)
R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
** R01HL-22812-01 Regulation of hepatic production of HDL (rats)
R01HL-23595-01 Experimental emphysema--Depression of protease inhibitors (rats, hamsters)

LIVER PHARMACOLOGY
SEE ALSO BILIARY TRACT PHARMACOLOGY
SEE ALSO LIVER DISORDERS CHEMOTHERAPY
RD1HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
R01HL-20859-02 Beta adrenergic catecholamine receptor
R01HL-21476-02 Anticoagulant drug absorption interactions (rats)

LIVER TOXINS
SEE LIVER OISOROERS, TOXIC LIVER DISORDERS, HEPATOTOXINS

LIVER VENOUS BYPASS
SEE LIVER CIRCULATION, VENOUS BYPASS OF LIVER

LMS
SEE IMIOAZOLES, LEVAMISOLE

LOCAL ANESTHESIA
SEE SENSORY OEPRESSION, ANESTHESIA CONDUCTION, LOCAL

LOCAL ANESTHETICS
SEE NEUROPHARMACOLOGICAL AGENTS, ANESTHETICS, LOCAL

LOCAL HORMONES
SEE NEUROTRANSMITTERS (GENERAL)

LOCOMOTION IN SINGLE CELL AND MULTICELLULAR MICROORGANISMS
SEE CELL COMPONENTS, CILIARY MOVEMENT
SEE CELL MOVEMENT

LONDON-VAN DER WAAL'S FORCES
SEE MOLECULAR INTERACTIONS NONBONDING

LONG CHAIN COMPOUNDS
SEE CHEMICAL STRUCTURE, CHAIN LENGTH

LONGEVITY
SEE AGING, LONGEVITY

LONGEVITY (CELLULAR)
SEE CELL AGE

LONGITUDINAL STUDY
SEE POPULATION STUOIES HUMAN, LONGITUDINAL STUDY

LONGITUDINAL STUDY, ANIMAL
SEE POPULATION STUDIES ANIMAL, LONGITUDINAL STUDY

LOW BIRTH WEIGHT ANIMALS
SEE AGE (ANIMAL), INFANTS PREMATURE AND LOW BIRTH WEIGHT

LOW BIRTH WEIGHT, HUMAN
SEE CHILDREN, INFANT PREMATURE ANO LOW BIRTH WEIGHT

LOW DENSITY LIPOPROTEINS
SEE LIPOPROTEINS BLOOO, LOL

LOW FIBER DIET
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY RESIDUES-FIBERS

LOW INCOME GROUPS
SEE SOCIDECONDMICS, INCOME, LDW INCDME GROUPS

LOW RENIN HYPERTENSION
SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), ANGIOTENSIN-RENIN-ALDOSTERDNE-ASSOCIATED

LOW RESIDUE DIET
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY RESIDUES-FIBERS

LOW SALT DIET
SEE NUTRITION, DIET THERAPEUTIC, SALT RESTRICTED

LOW TEMPERATURE PRESERVATION AND STORAGE
SEE TEMPERATURE, CRYOSCIENCES, LDW TEMPERATURE PRESERVATIDN AND STDRAGE

LOWER NEPHRON NEPHROSIS
SEE KIDNEY DISORDERS, NEPHROSIS LOWER NEPHRON

LRF
SEE PITUITARY-DIENCEPHALON HORMONES, LH RELEASING FACTOR

LTF (LYMPHOKINES)
SEE HYPERSENSITIVITY, LYMPHOKINES, LYMPHDCYTE TRANSFORMING FACTORS

LUNG
SEE RESPIRATORY SYSTEM, LUNG

LUNG ALVEOLUS
SEE RESPIRATORY SYSTEM, LUNG ALVEOLUS

LUNG CIRCULATION
SEE RESPIRATORY CIRCULATION, PULMONARY CIRCULATION

LUNG DISORDERS
SEE RESPIRATORY DISORDERS, LUNG DISORDERS (GENERAL)

LUNG NEOPLASMS
SEE NEOPLASMS OF RESPIRATORY SYSTEM, LUNG NEOPLASMS

LUNG PRESERVATION
SEE RESPIRATORY SYSTEM PRESERVATION, LUNG PRESERVATION

LUNG PRESSURE
SEE RESPIRATORY FUNCTION, RESPIRATORY AIRWAY PRESSURES

LUNG SCANNING
SEE RESPIRATORY VISUALIZATION, LUNG SCANNING*

LUNG TOXINS
SEE RESPIRATORY DISOROERS, RESPIRATORY SYSTEM TOXINS

LUNG TRANSPLANTATION
SEE RESPIRATORY SYSTEM TRANSPLANTATION, LUNG TRANSPLANTATION

LUNG TUBERCULOSIS
SEE BACTERIAL DISEASES, ACTINOMYCETALES INFECTIONS, TUBERCULOSIS

LUPUS ERYTHEMATOSUS SYSTEMIC
SEE CONNECTIVE TISSUE OISORDERS, LUPUS ERYTHEMATOSUS SYSTEMIC

LUPUS PERNIO
SEE NEOPLASMS RELATED INTEREST, SARCOIDOSIS

LUTEINIZING HORMONE RELEASING FACTOR
SEE PITUITARY-OIENCEPHALON HORMONES, LH RELEASING FACTOR

LUTEOTROPIN (PITUITARY)
SEE PITUITARY-OIENCEPHALON HORMONES, PROLACTIN

LYMPH
SEE BLOOO ANO RE SYSTEM, LYMPH

LYMPH FLOW
SEE BLOOO ANO RE SYSTEM, LYMPH FLOW

LYMPH NODES
SEE BLOOO ANO RE SYSTEM, LYMPHATIC TISSUE, LYMPH NODES

LYMPHATIC CIRCULATION
SEE BLOOD AND RE SYSTEM, LYMPHATIC CIRCULATION (GENERAL)

LYMPHATIC DUCT DRAINAGE
SEE BLOOO AND RE SYSTEM, LYMPHATIC OUCT DRAINAGE

LYMPHATIC TISSUE
SEE BLOOO ANO RE SYSTEM, LYMPHATIC TISSUE

LYMPHATIC VESSELS
SEE BLOOD ANO RE SYSTEM, LYMPHATIC CIRCULATION (GENERAL)

LYMPHOCYTE ACTIVATING FACTOR
SEE MITOGENS

LYMPHOCYTE ACTIVATION
SEE IMMUNITY, CELLULAR, LYMPHOCYTE ACTIVATION, TRANSFORMATIDN AND PRDLIFERATION

LYMPHOCYTE DEPLETION THERAPY
SEE BLOOD CELL DEPLETIDN THERAPY, LYMPHOCYTE DEPLETION

T LYMPHOCYTE DEPLETION THERAPY
SEE BLOOD CELL DEPLETION THERAPY, T LYMPHOCYTE DEPLETION

LYMPHOCYTE PRODUCTS
SEE HYPERSENSITIVITY, LYMPHOKINES

LYMPHOCYTE PROLIFERATION
SEE IMMUNITY, CELLULAR, LYMPHOCYTE ACTIVATION, TRANSFORMATION AND PROLIFERATION

LYMPHOCYTE RECEPTORS AND RECOGNITION
SEE IMMUNITY, CELLULAR, LYMPHOCYTE ACTIVATION, TRANSFORMATION AND PROLIFERATION

LYMPHOCYTE TRANSFORMATION
SEE IMMUNITY, CELLULAR, LYMPHOCYTE ACTIVATION, TRANSFORMATION AND PROLIFERATION

LYMPHOCYTE TRANSFORMING FACTORS
SEE HYPERSENSITIVITY, LYMPHOKINES, LYMPHOCYTE TRANSFORMING FACTORS

LYMPHOCYTES
SEE BLOOD CELLS, LYMPHOCYTES

B LYMPHOCYTES
SEE BLOOD CELLS, B LYMPHOCYTES

T LYMPHOCYTES
SEE BLOOD CELLS, T LYMPHOCYTES

LYMPHOCYTIC LYMPHOMA
SEE NEDPLASMS OF BLOOD AND RE SYSTEM, LYMPHOSARCOMA

LYMPHOGRANULOMA VENEREUM AGENT
SEE CHLAMYDIA, LYMPHOGRANULOMA VENEREUM AGENT

LYMPHOGRANULOMATOSIS BENIGN
SEE NEOPLASMS RELATED INTEREST, SARCOIDOSIS

LYMPHOGRANULOMATOSIS, MALIGNANT (HODGKIN'S)
SEE NEOPLASMS OF BLOOO ANO RE SYSTEM, HODGKIN'S DISEASE

LYMPHOID TISSUE
SEE BLOOD AND RE SYSTEM, LYMPHATIC TISSUE

LYMPHOKINES
SEE HYPERSENSITIVITY, LYMPHOKINES

LYMPHOMA
SEE NEOPLASMS OF BLOOO AND RE SYSTEM, LYMPHOMA

LYMPHOMATOSIS NEURAL AVIAN
SEE NERVOUS DISORDERS CENTRAL, MAREK'S DISEASE

LYMPHOSARCOMA
SEE NEOPLASMS OF BLOOD AND RE SYSTEM, LYMPHOSARCOMA

LYMPHOSARCOMA, PLEOMORPHIC
SEE NEOPLASMS OF BLOOD AND RE SYSTEM, HOOGKIN'S DISEASE

LYSINE
SEE OIAMINO ACIOS, LYSINE

LYSINE PEPTIDES
SEE PEPTIDES, HOMOPEPTIOES, LYSINE PEPTIDES

LYSOKINASE
SEE BLOOO COAGULATION, LYSOKINASE

LYSOLECITHIN
SEE PHOSPHOLIPIOS, PHOSPHOGLYCERIOES, LYSOLECITHIN

LYSOPHOSPHATIDYLCHOLINE
SEE PHOSPHOLIPIOS, PHOSPHOGLYCERIDES, LYSOLECITHIN

LYSOPHOSPHOLIPIDS
SEE PHOSPHOLIPIDS, LYSOPHOSPHOLIPIOS

LYSOSOMAL DISORDERS
SEE METABOLIC OISOROERS INBORN, LYSOSOMAL DISORDERS

LYSOSOMAL DYSFUNCTION IN DISORDERED LEUKOCYTE PHAGOCYTE ACTIVITY
SEE BLOOD ANO RE OISORDERS, LEUKOCYTE OISORDERS, PHAGOCYTE DYSFUNCTION (GENERAL)

LYSOSOMES
SEE CELL COMPONENTS, LYSOSOMES

LYSOZYME
SEE CARBOHYDRASES, LYSOZYME

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

M PROTEIN
SEE IMMUNOLOGY, ANTIGENS BACTERIAL, M PROTEIN

MACACA
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS, MACACA SP.*

MACACA MULATTA
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS, MACACA SP., MACACA MULATTA*

MACACQUES
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS, MACACA SP.*

MACROGLOBULINS
SEE GLOBULINS, MACROGLOBULINS

MACROMOLECULES
SEE MOLECULES, MACROMOLECULES

MACROPHAGE AGGREGATION FACTOR
SEE HYPERSENSITIVITY, LYMPHOKINES, MACROPHAGE AGGREGATION FACTOR

MACROPHAGES
SEE BLOOD AND RE SYSTEM, MACROPHAGES

MACROPHAGES, ALVEOLAR
SEE RESPIRATORY SYSTEM, ALVEOLAR MACROPHAGES

MACULA DENSA
SEE KIDNEY, RENAL TUBULES, MACULA

MAF (LYMPHOKINES)
SEE HYPERSENSITIVITY, LYMPHOKINES, MACROPHAGE AGGREGATION FACTOR

MAGNESIUM
SEE METALS, ALKALINE EARTH METALS, MAGNESIUM

MAGNESIUM DEFICIENCY (DEPLETION)
SEE METAL DISORDERS AND IMBALANCES, MAGNESIUM DEFICIENCY

MAGNETIC BALANCE METHODS
SEE PHYSICAL PROPERTIES, DENSITY, MAGNETIC SUSPENSION METHODS*

MAGNETIC CIRCULAR DICHROISM
SEE OPTICS, DICHROISM CIRCULAR MAGNETIC*

MAGNETIC COLLOIDS
SEE PHYSICAL PROPERTIES, COLLOIDS, MAGNETIC

MAGNETIC DENSITY-VOLUME METHODS
SEE PHYSICAL PROPERTIES, DENSITY, MAGNETIC SUSPENSION METHODS*

MAGNETIC FIELDS
SEE ELECTRICITY-MAGNETISM, MAGNETIC FIELDS

MAGNETIC RECORDING SYSTEMS
SEE BIOMEDICAL SYSTEMS AUTOMATED, MAGNETIC RECORDING SYSTEMS

MAGNETIC RESONANCE
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, ESR*
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, NMR*

MAGNETIC SUSPENSION METHODS
SEE PHYSICAL PROPERTIES, DENSITY, MAGNETIC SUSPENSION METHODS*

MAGNETOCARDIOGRAPHY
SEE HEART DISORDERS DIAGNOSIS, VECTOR MAGNETOCARDIOGRAPHY*

MALABSORPTION SYNDROMES
SEE GASTROINTESTINAL DISORDERS, MALABSORPTION SYNDROMES

MALARIA
SEE PARASITIC DISEASES, PROTOZOAL INFECTIONS, MALARIA

MALATE
SEE DICARBOXYLIC ACIDS, MALIC ACID

MALATE DEHYDROGENASE
SEE OXIDOREDUCTASES, MALATE DEHYDROGENASE

MALE
SEE SEX, MALE

MALEIMIDES
SEE PYRROLIDINEDIONES, MALEIMIDES

MALIC ACID
SEE DICARBOXYLIC ACIDS, MALIC ACID

MALIGNANT HYPERTENSION
SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC)

MALIGNANT LYMPHOMA
SEE NEOPLASMS OF BLOOD AND RE SYSTEM, HODGKIN'S DISEASE

MALNUTRITION
SEE NUTRITIONAL ABNORMALITIES, MALNUTRITION (GENERAL)

MALNUTRITION (NONDIETARY)
SEE NUTRITIONAL ABNORMALITIES

MALONALDEHYDE
SEE DICARBOXYLIC ALDEHYDES, MALONALDEHYDE

MALONYL-COA SYNTHETASE
SEE CARBON-CARBON LIGASES, ACETYL-COA CARBOXYLASE

MALTASE
SEE CARBOHYDRASES, ALPHA-GLUCOSIDASE

MAMMALS*
R01HL-15284-06 Hemoglobin and myoglobin kinetic studies (human, animals)

MAMMALS, ARTIODACTYLA, CATTLE*
SEE ALSO ALBUMINS, SERUM ALBUMIN BOVINE
R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
** R01HL-18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)
N01HV-12060-18 Tissue cultured endothelium for vascular prosthetic devices (human, animals)
** N01HV-42960-07 Development and evaluation of cardiac prostheses (calves)

MAMMALS, ARTIODACTYLA, GOATS*
P01HL-03174-23 0006 Mechanisms of acute vascular reaction to injury - Atherosclerotic plaque studies using mosaic analysis (human)

MAMMALS, ARTIODACTYLA, SHEEP*
** N01HI-72900-01 Maintenance of the NHLBI sheep colony
P50HL-19153-02 0004 SCOR--Pulmonary edemas--Etiology, pathogenesis - Physical mechanisms in lung transvascular transport--Math models (sheep)
** R01HL-23980-01 Effects of digoxin therapy in newborn and adult sheep

MAMMALS, ARTIODACTYLA, SWINE, MINIATURE SWINE*
** R01HL-18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)

MAMMALS, CARNIVORES, DOGS*
P01HL-14388-07 0217 Regulation of the circulation in pathological states - Fluid mechanics of aortic flow (dogs, human)
R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
** R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)
** R01HL-16292-05 0020 Surgery and non-obstructive coronary insufficiency - Limitation of transthoracic ECG in detecting subendocardial ischemia (dogs)
P50HL-17646-04 0004 Study of ischemic heart disease - Core experimental animal laboratories
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
R01HL-19648-03 Myocardial protein degradation (dogs, rabbits)
** R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
** R01HL-22281-01 Microprobe analysis and metabolite levels of ischemic myocardium (dogs)

MAMMALS, LAGOMORPHS*
P01HL-06664-17 0037 Cardiopulmonary function in remediable vascular disease - Salt and water balance of cells and tissues (rabbits)
R01HL-15677-06 Autonomic nervous system function in bronchial asthma (human, guinea pig, rabbit)
R01HL-16361-03 Fibrin complexes in intermediary coagulation (human, rabbits)
P50HL-17646-04 0004 Study of ischemic heart disease - Core experimental animal laboratories
P50HL-18318-03 0002 Pathogenesis and complications of hypertension - Core experimental animal facility (rats, rabbits)

MAMMALS, PRIMATE COLONIES
R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
** P50HL-14164-07 0025 A/S SCOR--Comparative and experimental atherosclerosis - Animal care resource and laboratory animal medicine unit (monkeys, pigeons)
P50HL-14164-07 0027 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (squirrel monkey)
** P50HL-14164-07 0028 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (African green monkey)
M P50HL-19362-02 A/S SCOR--Atherosclerosis in nonhuman primates
P50HL-19362-02 0004 A/S SCOR--Atherosclerosis in nonhuman primates - Selective breeding for characters related to atherosclerosis (baboons)
P50HL-19362-02 0016 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Animal services (baboon)
** N01HV-62905-02 Non-human primate models of arteriosclerosis

MAMMALS, PRIMATES*
M P50HL-14164-07 A/S SCOR--Comparative and experimental atherosclerosis
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)

MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), GREAT APES (PONGIDS), PAN (CHIMPANZEE)*
** N01HB-42971-12 Chimpanzees for hepatitis research

MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*
P50HL-14164-07 0025 A/S SCOR--Comparative and experimental atherosclerosis - Animal care resource and laboratory animal medicine unit (monkeys, pigeons)
P50HL-14164-07 0027 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (squirrel monkey)
R01HL-20384-09 Social stimulation, RNA and cardiovascular disease (animals)

MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS (CATARRHINES)*
P50HL-14164-07 0025 A/S SCOR--Comparative and experimental atherosclerosis - Animal care resource and laboratory animal medicine unit (monkeys, pigeons)
P50HL-14164-07 0028 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (African green monkey)
M P50HL-19362-02 A/S SCOR--Atherosclerosis in nonhuman primates
P50HL-19362-02 0004 A/S SCOR--Atherosclerosis in nonhuman primates - Selective breeding for characters related to atherosclerosis (baboons)
P50HL-19362-02 0005 A/S SCOR--Atherosclerosis in nonhuman primates - Hybridization to produce primate model of atherosclerosis (baboon, Rhesus)
P50HL-19362-02 0014 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Behavior observation and manipulation (baboon)
P50HL-19362-02 0016 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Animal services (baboon)
N01HV-62905-02 Non-human primate models of arteriosclerosis

MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS, MACACA SP.*
R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)

MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS, MACACA SP., MACACA MULATTA*
M P01HL-18645-03 Biology of the artery wall and atherosclerosis
** P01HL-18645-03 0001 Biology of the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
** P01HL-18645-03 0003 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
P01HL-18645-03 0007 Biology of the artery wall and atherosclerosis - Lipoprotein metabolism in subhuman primates
P50HL-19362-02 0005 A/S SCOR--Atherosclerosis in nonhuman primates - Hybridization to produce primate model of atherosclerosis (baboon, Rhesus)
** N01HV-72978-02 Development of models of hypertension
** N01HV-72980-02 Development of models of hypertension

MAMMALS, RODENTS, HYSTRICOMORPHA, GUINEA PIGS*
R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
P50HL-17646-04 0004 Study of ischemic heart disease - Core experimental animal laboratories
R01HL-23624-01 Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs)

MAMMALS, RODENTS, MYOMORPHA, HAMSTERS*
P01HL-19717-02 0002 Response of the lung to injury - Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

MAMMALS, RODENTS, MYOMORPHA, MICE (LABORATORY)*

R01HL-18163-04 Red cell membrane effects due to oxidizing agents

MAMMALS, RODENTS, MYOMORPHA, RATS (LABORATORY)*

R01HL-11901-12 0020 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass--Endogenous animal model of obesity (rats)
P50HL-14217-08 0061 Specialized center of research in thrombosis - Pharmacology--Comparison of platelets and vascular smooth muscle (animal)
P50HL-17646-04 0004 Study of ischemic heart disease - Core experimental animal laboratories
P50HL-18318-03 0002 Pathogenesis and complications of hypertension - Core experimental animal facility (rats, rabbits)

MAMMALS, RODENTS, MYOMORPHA, SPONTANEOUS HYPERTENSIVE RATS*

P50HL-14159-08 0024 Specialized center of research in hypertension - Core resources (clinical, animal models)
** P01HL-14388-07 0167 Regulation of the circulation in pathological states - Increased reactivity of artery vascular muscle in spontaneously hypertensive rat
** P01HL-14388-07 0195 Regulation of the circulation in pathological states - General review of potential pathophysiologic factors in spontaneous hypertension
** P01HL-14388-07 0196 Regulation of the circulation in pathological states - Altered vascular responsiveness in spontaneous hypertension (rats)
** P01HL-14388-07 0197 Regulation of the circulation in pathological states - Altered vascular reactivity in pathogenesis of spontaneous hypertension (rats)
** P01HL-14388-07 0198 Regulation of the circulation in pathological states - Humoral factors in vascular reactivity in spontaneously hypertensive rats
** P01HL-14388-07 0199 Regulation of the circulation in pathological states - Adrenergic stimulation in spontaneously hypertensive rats
** P01HL-14388-07 0201 Regulation of the circulation in pathological states - Central sympathetic discharge in spontaneously hypertensive rats
** P01HL-14388-07 0202 Regulation of the circulation in pathological states - Development of hypertension in spontaneously hypertensive rats
** P01HL-14388-07 0203 Regulation of the circulation in pathological states - Activation of sympathetic nervous systems in spontaneously hyperactive rats
** P01HL-14388-07 0204 Regulation of the circulation in pathological states - Reflex control of vascular resistance in spontaneously hypertensive rats
** P01HL-14388-07 0205 Regulation of the circulation in pathological states - Pathogenesis of hypertension in spontaneously hypertensive rats
** P01HL-14388-07 9001 Regulation of the circulation in pathological states - Core facility for hypertensive animal colony (rats)
R01HL-17724-03 Oral contraceptives and hypertension (rats)
P50HL-18318-03 0002 Pathogenesis and complications of hypertension - Core experimental animal facility (rats, rabbits)
P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
** R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)

MAMMARY ARTERY
SEE CARDIOVASCULAR SYSTEM, ARTERIES, MAMMARY ARTERY

MAMMARY GLANDS
SEE REPRODUCTIVE SYSTEM FEMALE, MAMMARY GLANDS

MAMMARY TUMORS
SEE NEOPLASMS OF REPRODUCTIVE SYSTEM, BREAST NEOPLASMS

MAMMOGRAPHY
SEE NEOPLASMS DIAGNOSIS, BREAST NEOPLASMS DIAGNOSIS, MAMMOGRAPHY*

MAMMOTROPIN
SEE PITUITARY-DIENCEPHALON HORMONES, PROLACTIN

MAN-COMPUTER INTERACTION
SEE COMPUTER, MAN-COMPUTER INTERACTION

MANGABEYS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS (CATARRHINES)*

MANGANESE (COMPOUNDS)
SEE METALS, HEAVY METALS, MANGANESE

MANNITOL
SEE SUGAR ALCOHOLS, HEXITOLS, MANNITOL

MANNOSE
SEE HEXOSES, MANNOSE

MANPOWER
SEE HEALTH SCIENCES PROFESSIONS, HEALTH SCIENCES MANPOWER

MAPPING
SEE BRAIN MAPPING
SEE GENETIC MAPPING
SEE NERVOUS SYSTEM CENTRAL, SPINAL CORD MAPPING

MAPPING OF EPICARDIUM
SEE HEART VISUALIZATION, EPICARDIAL MAPPING

MAPS
SEE PUBLICATIONS, ATLASES

MARCHIAFAVA-MICHELI SYNDROME
SEE HEMOPROTEINS, HEMOGLOBINURIA, PAROXYSMAL NOCTURNAL

MAREK'S DISEASE
SEE NERVOUS DISORDERS CENTRAL, MAREK'S DISEASE

MARFAN SYNDROME
SEE METABOLIC DISORDERS INBORN, MARFAN SYNDROME

MARIHUANA
SEE ALKALOIDS, CANNABIS

MARINE BIOLOGY
SEE WATER ENVIRONMENT, MARINE BIOLOGY

MARKERS
SEE GENETIC MAPPING, GENETIC MARKERS

MARMOSETS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*

MARRIAGE
SEE FAMILY, MARRIAGE

MARROW
SEE BLOOD AND RE SYSTEM, BONE MARROW

MASERS, OPTICAL
SEE OPTICS, LASERS*

MASS COMMUNICATION MEDIA
SEE INFORMATION DISSEMINATION, MASS MEDIA

MASS DIAGNOSTIC SCREENING
SEE DIAGNOSTIC SERVICES, MASS SCREENING

MASS SPECTROMETRY
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, MASS*

MAST CELL HYPERPLASIA
SEE BLOOD AND RE DISORDERS, MAST CELL HYPERPLASIA

MAST CELL NEOPLASMS
SEE NEOPLASMS OF BLOOD AND RE SYSTEM, MAST CELL NEOPLASMS

MAST CELLS
SEE BLOOD AND RE SYSTEM, MAST CELLS

MASTERS STEP TEST
SEE CARDIOVASCULAR DISORDERS DIAGNOSIS, EXERCISE STRESS TESTING*

MASTOCYTOMA
SEE NEOPLASMS OF BLOOD AND RE SYSTEM, MAST CELL NEOPLASMS

MATERNAL AND INFANT CARE
SEE HEALTH CARE SERVICES, MATERNAL AND INFANT CARE

MATERNAL BEHAVIOR
SEE FAMILY, MATERNAL BEHAVIOR

MATERNAL-FETAL
SEE PREGNANCY, PRENATAL STRESS
SEE PREGNANCY IMMUNOLOGY

MATERNAL NUTRITION
SEE NUTRITION, MATERNAL-FETAL NUTRITION

MATHEMATICAL MODELS
SEE MODELS, MATHEMATICAL

MATHEMATICS, BIOMATHEMATICS (GENERAL)
SEE ALSO COMPUTER (GENERAL) INCL COMPUTER DATA PROCESSING (GENERAL)
SEE ALSO COMPUTER AND BIOMATHEMATICAL SCIENCES STUDY SECTION
SEE ALSO MODELS, MATHEMATICAL
** P01HL-07896-15 0009 Environmental biomedical research program - Decompression sickness and computation of safe diving tables (human, animals)
** P01HL-08899-14 0073 Tolerance to respiratory gases in health and disease - Biophysical mechanisms involved in isobaric gas counterdiffusion syndrome
** P01HL-08899-14 0074 Tolerance to respiratory gases in health and disease - Biomathematical analysis of isobaric gas exchange and bubble formation
P01HL-08899-14 0089 Tolerance to respiratory gases in health and disease Decompression by applications of optimal control theory
P01HL-11310-12 9003 Mechanisms of cardiovascular disease Core support biophysical sciences
R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
** P01HL-17731-04 0002 Physiological basis of pulmonary disease - Biomechanics of the lung (frogs, cats)
P01HL-17813-04 0007 Lung disease and the oxygenation of blood and tissue Studies on the function of myoglobin (dogs)
P01HL-18208-04 0006 Center for the study of blood cell rheology - Analysis of flow in arterioles and capillaries (human)
R01HL-18968-03 Computer technology for transaxial tomography
** P01HL-20552-02 9002 The development and regression of cardiac hypertrophy - Core B--Biomathematics
** P01HL-20993-02 0009 Population dynamics of arterial cells in atherogenesis - Mathematical biology Core
R01HL-21764-01 Ultramicroanalysis of prostaglandins and related compounds (rats)
** R01HL-22963-01 Symbolic logic analysis of congenital heart disease (human)

MATHEMATICS, STATISTICS (INCLUDING BIOMETRY)
SEE ALSO NEOPLASTIC DISEASE EPIDEMIOLOGY-STATISTICS
SEE ALSO POPULATION STUDIES HUMAN
SEE ALSO PSYCHOMETRICS
SEE ALSO STATISTICAL SERVICE AND CENTERS
** N01HB-72982-03 Statistical coordinating center for sickle cell disease
R01HL-03429-18 Central nervous system and coronary heart disease (human)
R01HL-04697-17 International heart disease epidemiology (human)
P01HL-11310-12 9003 Mechanisms of cardiovascular disease - Core support-biophysical sciences
** P50HL-14136-07 9001 Pulmonary SCOR--Airways obstructive diseases - Biometrics core
** P50HL-14138-05 0014 Center for research on atherosclerosis - Core biostatistics laboratory
** P50HL-14212-07 0017 Correlated studies of pulmonary fibrosis - Biometry core
P50HL-14218-07 0011 Pulmonary SCOR--Newborn lung center - Administrative and computer core
** P01HL-14388-07 9004 Regulation of the circulation in pathological states - Core biostatistics unit
P01HL-14414-07 9002 Environmental influences on cardiorespiratory and cellular functions - Core--Computer facility
** P50HL-15092-07 0013 Immune and fibrotic response to occupational environments - Epidemiology core resource
R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
R01HL-15191-07 Multiparameter methods for cardiovascular research
R01HL-16908-04 Myocardial function, risk factors and future CHD (men)
R01HL-16909-04 Myocardial function, risk factors and future CHD (men)
P50HL-17646-04 0002 Study of ischemic heart disease - Core data management
P50HL-17646-04 0006 Study of ischemic heart disease - Mathematical models for predicting infarct size using CPK and other markers
** P50HL-17648-04 0032 Study of ischemic heart disease - Data management--Statistics and data files
P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
** P50HL-17667-04 0041 Study of ischemic heart disease - Biophysical sciences core--Data collection and retrieval
P50HL-17667-04 0044 Study of ischemic heart disease - Core--Data management and analysis
P50HL-17682-04 0009 Study of ischemic heart disease - Computer core unit
** P01HL-17731-04 0012 Physiological basis of pulmonary disease - Statistics and computing--Core
** P01HL-18575-03 0013 Mechanisms of vascular changes in hypertension - Biostatistical core
P50HL-19362-02 0017 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Data management, statistical analysis
R01HL-19567-03 Impact of emotion on coronary arteries (human)
R01HL-19864-03 0002 Blood pressure of children and young adults - Data epidemiology center
R01HL-20637-02 Recovery after heart surgery--Bio-behavioral factors (human)
R01HL-21527-01 Prospective study of bundle branch block (human)
** P01HL-21584-02 9002 Respiratory mechanics in normal and abnormal states - Computational and statistical core facility
N01HR-72901-02 Study of intermittent positive pressure breathing (data center)
N01HV-32973-12 Coordinating center for collaborative studies on coronary artery surgery

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

N01HV-72940-02 Therapy to protect ischemic myocardium (human)

MATURE ANIMAL
SEE AGE (ANIMAL), MATURE (ADULT)

MEASLES VIRUS
SEE VIRUSES, MYXOVIRUSES, MEASLES VIRUS

MEAT SUBSTITUTES
SEE FOOD, MEAT SUBSTITUTES

MECAMYLAMINE
SEE NORBORNANES, MECAMYLAMINE

MECHANICAL PRESSURE
SEE PHYSICAL PROPERTIES, MECHANICAL PRESSURE

MECHANORECEPTORS
SEE SENSE ORGANS, MECHANORECEPTORS

MECHLORETHAMINE
SEE HALOALKYLAMINES, MECHLORETHAMINE

MECHOLYL
SEE CHOLINE, METHACHOLINE

MEDIASTINUM
SEE BODY CAVITIES, MEDIASTINUM

MEDICAID, MEDI-CAL, TITLE 19
SEE HEALTH ECONOMICS, HEALTH CARE COSTS-FINANCING, MEDICAL INDIGENCY

MEDICAL ASSISTANCE PROGRAMS
SEE HEALTH ECONOMICS, HEALTH CARE COSTS-FINANCING, MEDICAL INDIGENCY

MEDICAL AUDIT
SEE HEALTH CARE QUALITY

MEDICAL CARE COSTS-FINANCING
SEE HEALTH ECONOMICS, HEALTH CARE COSTS-FINANCING

MEDICAL ECONOMICS
SEE HEALTH ECONOMICS

MEDICAL EDUCATION
SEE EDUCATION, HEALTH OCCUPATIONS, MEDICAL

MEDICAL EQUIPMENT SAFETY
SEE BIOMEDICAL ENGINEERING, MEDICAL EQUIPMENT SAFETY

MEDICAL FACILITIES UTILIZATION
SEE HEALTH CARE (SERVICES)(RESOURCES) UTILIZATION

MEDICAL INDIGENCY
SEE HEALTH ECONOMICS, HEALTH CARE COSTS-FINANCING, MEDICAL INDIGENCY

MEDICAL INSURANCE
SEE HEALTH INSURANCE

MEDICAL PERSONNEL PERFORMANCE
SEE HEALTH SCIENCES PROFESSIONS, HEALTH PERSONNEL PERFORMANCE

MEDICAL PERSONNEL SUPPORTIVE
SEE HEALTH SCIENCES PROFESSIONS, HEALTH (CARE) PERSONNEL ALLIED

MEDICAL RECORDS
SEE HEALTH RECORDS

MEDICAL RESEARCH
SEE HEALTH SCIENCES RESEARCH (GENERAL)*

MEDICAL SERVICES
SEE HEALTH CARE SERVICES (GENERAL)

MEDICAL STUDENTS
SEE EDUCATION, HEALTH OCCUPATIONS, MEDICAL

MEDICINAL CHEMISTRY STUDY SECTION
SEE ALSO BIOANALYTICAL AND METALLOBIOCHEMISTRY STUDY SECTION
** R01HL-12971-15 Reactions of alkoloids and their analogs
** R01HL-13581-11 Reactions of oxygen with heme proteins
** R01HL-13587-06 Synthesis of renin inhibitors and analog phosphatides (rats)
** R01HL-16471-05 Cardioactive alloyohimbines and related indole alkaloids
** R01HL-16524-02 Selective inhibitors of prostaglandin biosynthesis (dogs)
** R01HL-17341-03 Practical total synthesis of prostaglandins
** R01HL-17896-03 Dehydropeptide renin substrates
** R01HL-17897-03 Synthesis of alpha and beta adrenergic antagonists
** R01HL-17921-04 Peroxy radicals to prostaglandins in vessels and lung
** R01HL-18118-04 Total synthesis of cardiac aglycones
** R01HL-19066-03 Synthesis and evaluation of prostaglandin metabolites (guinea pigs)
** R01HL-19514-03 Proteinase inhibitor model with clinical potential
** R01HL-19538-03 Synthesis of potential antihypertensive agents
** R01HL-20579-02 Synthesis of therapeutically important alkaloids
** R01HL-20751-01 High speed liquid chromatography of hemoglobins (human)
** R01HL-20996-02 Structural and reactivity of iron and cobalt complexes
** R01HL-21367-02 Polyether ionophores--Synthesis of X537A and analogs
** R01HL-21461-01 Heme group protein interactions in hemoproteins
** R01HL-21769-01 Blood compatible benzamidine containing polymers
** R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease
** R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors
** R01HL-22612-01 Stabilized prostacyclins to treat vascular disease
** R01HL-22778-01 Total synthesis of natural cardiotonic ionophores

MEDICINAL PLANTS
SEE PLANTS EXTRACTS, MEDICINAL PLANTS

MEDICINE
SEE ANIMALS, VETERINARY MEDICINE
SEE BEHAVIORAL MEDICINE
SEE ENVIRONMENT, EXTRATERRESTRIAL, SUPRATERRESTRIAL
SEE GENERAL MEDICINE STUDY SECTION
SEE OCCUPATIONAL HEALTH, INDUSTRIAL MEDICINE

MEDICINE, LEGAL
SEE HEALTH SOCIAL CONTROL

MEDITATION
SEE PSYCHIC ACTIVITY LEVEL, TROPHOTROPIC STATE, MEDITATION

MEDROXYPROGESTERONE ACETATE
SEE PROGESTERONE ANALOGS, MEDROXYPROGESTERONE ACETATE

MEDULLA OBLONGATA
SEE BRAIN, MEDULLA OBLONGATA

MEETINGS CONFERENCES SYMPOSIA
SEE INFORMATION DISSEMINATION, MEETINGS CONFERENCES SYMPOSIA

MEGAKARYOCYTE TYPING
SEE BLOOD PLATELET TYPING

MEGAKARYOCYTES
SEE BLOOD AND RE SYSTEM, MEGAKARYOCYTES

MEGALOBLASTIC ANEMIA
SEE BLOOD AND RE DISORDERS, ANEMIA MEGALOBLASTIC

MEGAVITAMIN THERAPY
SEE NUTRITION, DIET THERAPEUTIC, VITAMIN THERAPY (ALL ROUTES OF ADMINISTRATION)

MELANOIDIN REACTION
SEE CHEMICAL REACTIONS, BROWNING REACTION

MEMBRANE
SEE ALSO CELL COMPONENTS, CELL MEMBRANE
SEE ALSO CELL COMPONENTS, CELL WALL
SEE ALSO CELL COMPONENTS, MITOCHONDRIAL MEMBRANE
SEE ALSO MEMBRANE SURFACE (BIOLOGICAL) ACTIVITY (GENERAL)
SEE ALSO MOLECULAR FILMS
SEE ALSO PROTEINS, MEMBRANE PROTEINS
SEE ALSO TISSUE, EPITHELIUM
P01HL-08899-14 0075 Tolerance to respiratory gases in health and disease - Gas diffusion rates and bubble formation across membranes (animals)
R01HL-20114-02 Collagen-platelet interaction and human aorta collagen (human)
** R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease

MEMBRANE, BASEMENT MEMBRANE
** R01HL-01803-23 0016 Arteriosclerosis, glomerulonephritis, rheumatic fever - Synthesis of basement membrane collagen by endothelial cells (human)
** P01HL-03174-23 0007 Mechanisms of acute vascular reaction to injury - Healing of injured myocardium--Basal lamina scaffold (human, rats, dogs)
** P01HL-06285-18 0149 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in prediabetic and diabetic subjects (human)
** P01HL-06285-18 0150 Cardiovascular-respiratory physiology and biochemistry - Basement membrane width in non-diabetic hyperglycemia
** P01HL-06285-18 0151 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in diabetic and glucose intolerant children
** P01HL-06285-18 0152 Cardiovascular-respiratory physiology and biochemistry - Diabetic microangiopathy by organ and tissue culture (human)
P01HL-06314-17 0063 Immunologic mechanisms in cardiovascular disease - Glomerular cells in tissue culture (human)
P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
P01HL-11310-12 0106 Mechanisms of cardiovascular disease - Biochemical characterization of the collagens in vascular tissue (cattle)
R01HL-13632-08 Vascular changes in diabetes mellitus (human)
** R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
** P01HL-16387-04 0004 The blood vessel and thrombogenesis - Analysis of vascular basement membrane by enzymatic methods (human)
R01HL-16490-04 Structural basis of nephron filtration (rats, rabbits)
R01HL-17702-04 Electro-optical dyes as probes of heart excitability
R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
** R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
P50HL-18828-03 0002 Specialized center of research in thrombosis - Endothelial cell biology (human, guinea pig)
R01HL-19316-03 Study of glomerular permeability (fish, turtle, frog, chordates, crustacea)
R01HL-19731-03 Collagen in interstitial fibrosis of lung (human)
** R01HL-20500-02 Diabetic human brain microvascular basement membrane (human)
R01HL-20539-03 Blood glucose, hemoglobin A1c, and diabetic vascular disease (human)
R01HL-20635-03 Factors in lung development (rat and chick embryo)
R23HL-21396-02 Isolation, growth and metabolism of type 1 pneumocytes (rabbits)
R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)

MEMBRANE, BRUSH BORDER MEMBRANES
R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
R01HL-09610-14 Control of cholesterol metabolism--Bile acid transport
R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)
R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)

MEMBRANE, ERYTHROCYTE GHOST AND MEMBRANE
N01HB-62962-02 Red cell distributions in cyanate-treated blood (human, sheep)
** R01HL-01974-24 Ion-pump in the erythrocyte (rabbits, guinea pigs)
R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
P01HL-06835-17 0018 Cardiovascular disease - Fatty acid concentration (rats)
P01HL-06835-17 0019 Cardiovascular disease - Fatty acid distribution (rats)
R01HL-07449-17 Formation and survival of red blood cells (human)
R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
R01HL-08893-14 Structure and function of membrane proteins (human)
** R01HL-09906-13 0018 Membrane transport processes in red blood cells - Rapid photolytic release of ATP from a protected analog--Na-K pump of RBC ghosts
R01HL-10383-12 Physical-chemical studies of hemoglobins and erythrocyte (human)
R01HL-11153-12 Quantitation of flow and solute flux in microvessels (cats, rats)
** R01HL-11154-12 Blood group antigens and antibodies (human)
P01HL-12157-11 0033 Functions and mechanisms of cell membrane ion transport - Immunology aspects of active Na-K transport in sheep red cell (also human, mice)
** P01HL-12157-11 0051 Functions and mechanisms of cell membrane ion transport - Electron transport in the red cell membrane (human, guinea pigs)
** R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
** R01HL-12994-09 The Rh complex of red cells (human)
R01HL-13029-09 Metabolic regulation of sugar transport (pigeons, rats)
** R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
** R01HL-13567-06 Ion transport across cell membranes (human)
R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
** R01HL-14820-07 Factors affecting physiology of biological membranes (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P60HL-15157-07 0009 Comprehensive center for sickle cell disease - Red cell membrane alterations during sickling (human)
** P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
P60HL-15162-07 0017 Comprehensive sickle cell center - Hemoglobin, erythrocytes and sickle cell anemia (human, rabbit)
P60HL-15162-07 0019 Comprehensive sickle cell center - RBC-Blood rheology in sickle cell anemia and related disorders (human, animal)
** P60HL-15162-07 0020 Comprehensive sickle cell center - Biophysical studies of normal and sickle red cells (human)
P60HL-15169-05 0018 Support for center for sickle cell disease - Studies on sickle cell disease (human, rats, dogs)
P01HL-15194-07 0009 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Diffusion and erythrocytes reaction rates (human, dogs)
** R01HL-15793-06 Molecular aspects of erythrocyte membrane resealing (human)
P60HL-16005-05 0020 Comprehensive sickle cell center - Studies of the immunologic defect in sickle cell anemia (human)
** P60HL-16008-06 0018 Wayne State University comprehensive sickle cell center - Hemoglobin S and RBC membranes--Pathogenesis of irreversibly sickled cells
R01HL-16059-06 Structure and function of serum lipoprotains (cattle, human)
R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
R01HL-16375-04 Investigation of hemoglobin S properties (human)
R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions
** R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
M P01HL-16833-04 Hemoglobin and red cell system in hemoglobinopathies
** P01HL-16833-04 0008 Hemoglobin and red cell system in hemoglobinopathies - Membrane associated phenomena in SS disease
** P01HL-16833-04 0011 Hemoglobin and red cell system in hemoglobinopathies - Relationship between hemoglobin and RBC membrane in sickling cells (human, rats)
** P01HL-16833-04 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)
M P01HL-16851-04 Human red cell membrane in health and disease
** P01HL-16851-04 0001 Human red cell membrane in health and disease - Rheology of erythrocyte membrane (human, amphiuma)
** P01HL-16851-04 0003 Human red cell membrane in health and disease - Modeling membrane mechanics and blood rheology
** P01HL-16851-04 0005 Human red cell membrane in health and disease - Relation of hemoglobin species to membrane properties (human)
** P01HL-16851-04 0006 Human red cell membrane in health and disease - Hexose transport and erythrocyte membrane proteins (human)
** P01HL-16851-04 0008 Human red cell membrane in health and disease - Force balance in red cell interactions (human)
R01HL-17411-04 Molecular studies of red blood cell spectrin (human)
R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)
R01HL-17463-03 Composition and structure of plasma lipoproteins (human, rabbits)
R01HL-17567-03 Lipoprotein-cytolytic toxin interaction (Staphylococcus aureus, mammals, human)
R01HL-17576-04 Role of sphingomyelin in biomembranes and bilayers (rats, other mammals)
** R01HL-17878-04 Structural studies of the human erythrocyte membrane
R01HL-17967-04 Limiting factors in oxygen uptake in the lung
** R01HL-18048-04 Dynamics of artificial and biological membranes (human)
** R01HL-18163-04 Red cell membrane effects due to oxidizing agents
P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
P01HL-18208-04 0006 Center for the study of blood cell rheology - Analysis of flow in arterioles and capillaries (human)
** P01HL-18208-04 0007 Center for the study of blood cell rheology - RBC membrane protein (human)
** R01HL-18551-03 Spectrin, actin, lipid and red cell membrane structure
P01HL-18577-03 0003 Lipoproteins--Cell surface interactions - Mechanism of lipid exchange in lipoproteins and cell membranes
R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
** R01HL-18737-03 Human erythrocyte membrane structure
P50HL-18828-03 0004 Specialized center of research in thrombosis - Membrane changes in platelet physiology-Role of complement (mice, human)
** R01HL-19068-03 Changes in membrane properties during erythropoiesis (chick embryo)
** P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport
P01HL-19737-02 0010 Cellular and molecular aspects of respiratory physiology - Effects of pulsatile flow and volume on capillary exchanges (dogs, rats)
** R01HL-19933-02 Membrane and red cell dysfunction in hemolytic anemia (human)
** R01HL-20241-02 Shear and area moduli for abnormal red cell membranes (human)
R01HL-20301-02 Genetics of glycosyltransferases in human blood
** R01HL-20303-03 Cholesterol distribution in erythrocyte membrane (human, animals)
** R01HL-20365-03 Molecular mechanisms of anion transport
** R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-20750-01 Studies in sickle cell disease (human)
R01HL-20859-02 Beta adrenergic catecholamine receptor
R01HL-20882-02 Interactions of plasma lipoproteins with erythrocytes (Rhesus, human)
** P60HL-20985-01 0004 Northern California sickle cell center - Characterization of irreversibly sickled cells (human)
** P60HL-20985-01 0006 Northern California sickle cell center - Antisickling properties of imidoesters (human, rats)
P01HL-21016-02 0005 Sickle cell anemia and other hemoglobinopathies - Ligand kinetics in normal and Hb S containing erythrocytes (human)
P01HL-21016-02 0007 Sickle cell anemia and other hemoglobinopathies - Cellular determinants of red cell sickling
P01HL-21016-02 0017 Sickle cell anemia and other hemoglobinopathies - The hereditary clinic core
R23HL-21051-02 Adrenergic receptors and the adenylate cyclase system (frog RBC)
** R01HL-21096-02 Sickle cell crisis--Role of the erythrocyte membrane (human)
** R23HL-21328-02 The I blood group antigen of human erythrocyte membrane
** R01HL-21404-01 Raman spectroscopy of erythrocyte and model membranes (human)
R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
R01HL-22233-01 Characterization of bio-materials by elastic property
** R01HL-22432-01 Molecular studies of human erythrocyte membranes
R01HL-22650-01 Regulatory mechanisms of erythropoietin production (human, rats, mice)
R01HL-22671-01 Removal of senescent and stored human red cells
** R01HL-23108-01 Membrane biochemistry of RH antigens (human)
** R01HL-24021-02 Erythocyte membrane sulfhydrls and Rh activity (human)

MEMBRANE, MEMBRANE (BIOLOGICAL) STRUCTURE

SEE ALSO BIOLOGICAL TRANSPORT, MEMBRANE MODELS
** R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
** P01HL-06285-18 0211 Cardiovascular-respiratory physiology and biochemistry - Purple membrane of Halobacteria
P01HL-06285-18 0212 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gap junction (bovine)
P01HL-06285-18 0213 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gas vacuole membrane (Halobacterium)
P01HL-06285-18 0214 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function-EM of macromolecules
R01HL-07449-17 Formation and survival of red blood cells (human)
P01HL-08214-15 0025 Chemical and biological properties of lipids - Biosynthesis and biological functions of plasmalogen (cattle)
P01HL-08214-15 0040 Chemical and biological properties of lipids - Nuclear magnetic resonance studies of lipids
** R01HL-08893-14 Structure and function of membrane proteins (human)
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
** R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
R01HL-11154-12 Blood group antigens and antibodies (human)
** P01HL-11310-12 0097 Mechanisms of cardiovascular disease - Structural-functional relationships of neuronal differential alloantigens (mice)
** P01HL-11310-12 0102 Mechanisms of cardiovascular disease - Cardiac membrane and ion mobility (dogs)
P01HL-11310-12 0105 Mechanisms of cardiovascular disease Biosynthesis of mammalian glycoproteins (rabbits)
P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications Myocardial cells in tissue culture (rats, chick embryo)
R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
** R01HL-12760-09 Surface studies of membrane lipids and proteins
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
** R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
R01HL-13336-09 Biochemistry and physiology of human platelets
** R01HL-14111-07 Cholesteryl esters in membranes and atherosclerosis (human, swine)
P50HL-14230-07 0092 A/S SCOR-Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
** R01HL-14697-07 Role of platelet membranes in hemostasis (human)
** R01HL-14781-08 Lipid deposition in mammalian cells (mice)
R01HL-14820-07 Factors affecting physiology of biological membranes (human)
** P60HL-15157-07 0009 Comprehensive center for sickle cell disease - Red cell membrane alterations during sickling (human)
** P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
P60HL-15162-07 0017 Comprehensive sickle cell center - Hemoglobin, erythrocytes and sickle cell anemia (human, rabbit)
** P60HL-15162-07 0020 Comprehensive sickle cell center - Biophysical studies of normal and sickle red cells (human)
R01HL-15335-06 The nature of the collagen-platelet interaction (animals)
R01HL-15567-05 Cardiovascular phosphoinositide metabolism (rats)
R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
R01HL-15793-06 Molecular aspects of erythrocyte membrane resealing (human)
P60HL-16008-06 0018 Wayne State University comprehensive sickle cell center - Hemoglobin S and RBC membranes--Pathogenesis of irreversibly sickled cells
R01HL-16059-06 Structure and function of serum lipoproteins (cattle, human)
** R01HL-16101-05 Protein-lipid interaction (bacteria, models)
R01HL-16355-05 Reactions of thrombin and collagen with platelets (human)
R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
R01HL-16474-05 Antibiotic-ion interactions (model membranes)
R01HL-16646-05 Pathobiology of thromboembolic disorders (human)
** R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions
** R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
** R01HL-17411-04 Molecular studies of red blood cell spectrin (human)
** R01HL-17576-04 Role of sphingomyelin in biomembranes and bilayers (rats, other mammals)
R01HL-17596-03 Leukocyte-endothelial interactions (rats)
** R01HL-17878-04 Structural studies of the human erythrocyte membrane
** R01HL-17930-03 Platelet membrane function--Assessment and application (animals)
R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
R01HL-18012-04 Cellular defects in nocturnal hemoglobinuria (human)
R01HL-18030-04 The role of contractile proteins in platelets (human, rabbits)
R01HL-18038-03 Structure and function of heart mitochondria (cattle)
** R01HL-18048-04 Dynamics of artificial and biological membranes (human)
M P01HL-18208-04 Center for the study of blood cell rheology
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
P01HL-18208-04 0007 Center for the study of blood cell rheology - RBC membrane protein (human)
** R01HL-18249-04 Isolation and identification of platelet membrane (human)
R01HL-18255-04 Lipid-protein interactions and calcium transport (models)
** R01HL-18551-03 Spectrin, actin, lipid and red cell membrane structure

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
** R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
** R01HL-18737-03 Human erythrocyte membrane structure
** R01HL-18746-02 Chemical studies on proteolipid apoproteins (cattle)
R01HL-19011-03 Smooth muscle cell membrane glycoprotein biosynthesis (cattle)
** R01HL-19068-03 Changes in membrane properties during erythropoiesis (chick embryo)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R01HL-19316-03 Study of glomerular permeability (fish, turtle, frog, chordates, crustacea)
R01HL-19392-03 Spectroscopic studies of respiratory metalloproteins
** R01HL-19933-02 Membrane and red cell dysfunction in hemolytic anemia (human)
R01HL-19936-02 Unsaturated fatty acid biosynthesis in the aorta (rats)
** R01HL-20140-02 Glycoproteins of platelet membrane and platelet function (human)
R01HL-20241-02 Shear and area moduli for abnormal red cell membranes (human)
** R01HL-20303-03 Cholesterol distribution in erythrocyte membrane (human, animals)
R01HL-20350-02 Crystal structure of lipids--Cholesterol
R01HL-20365-03 Molecular mechanisms of anion transport
R01HL-20500-02 Diabetic human brain microvascular basement membrane (human)
R01HL-20882-02 Interactions of plasma lipoproteins with erythrocytes (Rhesus, human)
** R01HL-21096-02 Sickle cell crisis--Role of the erythrocyte membrane (human)
R23HL-21328-02 The I blood group antigen of human erythrocyte membrane
** R01HL-21404-01 Raman spectroscopy of erythrocyte and model membranes (human)
R01HL-21469-01 Active transport and effect of CADD in sickle cell (human)
** R23HL-21490-02 Studies of enzymes in human platelet membranes
R01HL-21845-01 Human red cell membrane--Structure and function
** R23HL-21894-01 Pulmonary angiotensin converting enzyme (cattle)
R01HL-21988-01 Biochemistry of human platelet chemotaxis
R01HL-22050-01 Organization of succinic oxidase in heart
R01HL-22174-01 Assembly of membranes in heart and yeast mitochondria
** R01HL-22432-01 Molecular studies of human erythrocyte membranes
R01HL-22502-01 Role of phosphoinositides in human platelet secretion
R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
R01HL-22771-01 Thrombogenic phospholipid surfaces (cattle)
R23HL-22839-01 Cellular translation of liposomally-delivered mRNA (human, mammals)
R01HL-22951-01 Studies on the affect of vitamin E on platelets (human, rats)
R01HL-22981-17 Membrane-associated functions in microorganisms (bacteria, protozoa)
R01HL-23013-01 Smooth muscle development in vitro (chick embryo)
** R01HL-23108-01 Membrane biochemistry of RH antigens (human)
R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)
R01HL-23392-01 Membrane binding and transport of calcium and potassium ionophores
** R01HL-23593-01 Mast cell granules--Structure and secretion (rats)

MEMBRANE, MUCOUS MEMBRANE

SEE ALSO GASTROINTESTINAL SYSTEM, INTESTINES, MUCOSA
** P01HL-06285-18 0189 Cardiovascular-respiratory physiology and biochemistry - Mucociliary clearance (cats, dogs)
** P01HL-10436-13 0016 A multidisciplinary study of congenital heart disease - Genetic studies of congenital heart disease (human)
** R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
** R01HL-22924-01 The airway mucosal barrier (guinea pigs)

MEMBRANE, MULTILAYER MEMBRANES

** P01HL-06285-18 0210 Cardiovascular-respiratory physiology and biochemistry - Physicochemical and enzymatic studies of lung surfactant (Halobacterium)
R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
R01HL-22327-01 Transport of arterial blood gases through skin (swine)

MEMBRANE, PROSTHETIC MEMBRANES

SEE ALSO RESPIRATORY SYSTEM PROSTHESIS, PROSTHETIC LUNG
P01HL-06314-17 0051 Immunologic mechanisms in cardiovascular disease - Conformational studies of phospholipid membranes and proteins
** R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
** R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
** R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
R01HL-16582-05 Artificial lungs (dogs)
P01HL-16851-04 0003 Human red cell membrane in health and disease - Modeling membrane mechanics and blood rheology
** P01HL-18576-03 0003 Thrombosis research program project - Biocompatible materials
R01HL-20073-02 Blood compatible materials by fluid perfusion (human, dogs)
R01HL-21498-02 Pathophysiology of edema (rats, cats)
R01HL-22661-01 Chronic total cardiopulhonary mechanical substitution (sheep)
R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces
N01HV-32919-12 Material development and testing heparinization processes

MEMBRANE (BIOLOGICAL) STRUCTURE

SEE MEMBRANE, MEMBRANE (BIOLOGICAL) STRUCTURE

MEMBRANE MODELS

SEE BIOLOGICAL TRANSPORT, MEMBRANE MODELS

MEMBRANE OXYGENATORS, BLOOD

SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, BLOOD OXYGENATORS

MEMBRANE PERMEABILITY AND TRANSPORT

SEE BIOLOGICAL TRANSPORT, MEMBRANE PERMEABILITY AND TRANSPORT

MEMBRANE POTENTIALS

SEE ELECTROPOTENTIALS, MEMBRANE POTENTIALS

MEMBRANE PROTEINS

SEE PROTEINS, MEMBRANE PROTEINS

MEMBRANE SURFACE (BIOLOGICAL) ACTIVITY (GENERAL)

SEE ALSO CELL ADHESION
SEE ALSO CELL-CELL INTERACTION, CELL AGGREGATION
SEE ALSO IMMUNOLOGY, ANTIGENS, SURFACE ANTIGENS (GENERAL)
** P01HL-03174-23 0013 Mechanisms of acute vascular reaction to injury - Surface morphology of the aorta in normal and injured states (rats, rabbits)
** R01HL-03919-20 The cell suface of streptococci (rats, human)
R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
P01HL-06285-18 0209 Cardiovascular-respiratory physiology and biochemistry - Metabolic studies of isolated lung cells (human, animals)
P01HL-06285-18 0210 Cardiovascular-respiratory physiology and biochemistry - Physicochemical and enzymatic studies of lung surfactant (Halobacterium)
P01HL-06285-18 0211 Cardiovascular-respiratory physiology and biochemistry - Purple membrane of Halobacteria
P01HL-06285-18 0213 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gas vacuole membrane (Halobacterium)
P01HL-09011-15 0001 A research and resource program in blood - Genetic markers of human blood and gene mapping (human)
** R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
R01HL-09739-13 Biophysical studies of proteins (human)
R01HL-11154-12 Blood group antigens and antibodies (human)
** P01HL-11310-12 0099 Mechanisms of cardiovascular disease - Carbohydrate chemistry of thy-1 and related synaptosomal proteins
P01HL-11351-12 0002 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ionic exchange (rats, rabbits)
** P01HL-11351-12 0009 Cellular and molecular mechanisms of myocardial function - Myocardial membrane surface coat (rats, rabbits)
** R01HL-12760-09 Surface studies of membrane lipids and proteins
R01HL-12994-09 The Rh complex of red cells (human)
R01HL-13831-08 Factors regulating embryonic cardiac morphogenesis (chick, salamandra)
P50HL-14214-07 0024 Newborn lung center for hyaline membrane disease - Synthesis and receptors for ACTH in fetal lung (human)
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
P50HL-14230-07 0096 A/S SCOR--Lipids, atherosclerosis and thrombosis - Ultrastructural studies of endothelial cells (human)
P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
R01HL-14990-07 Lipid transport in avian species (chickens)
P60HL-15157-07 0012 Comprehensive center for sickle cell disease - Sickling and intracellular pH (human)
P60HL-15162-07 0017 Comprehensive sickle cell center - Hemoglobin, erythrocytes and sickle cell anemia (human, rabbit)
** P60HL-15162-07 0020 Comprehensive sickle cell center - Biophysical studies of normal and sickle red cells (human)
P01HL-15596-05 0014 Coagulation, fibrinolysis, hemostasis and hepatitis - Von Willebrand factor and platelet retention in glass bead columns (swine)
R01HL-15616-04 Platelet membrane proteins in aggregation (human)
R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
** R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
** P60HL-17269-04 0045 National heart and blood vessel research and demonstration center - Regulation of lipogenesis in hyperlipoproteinemia (human, tissue culture)
R01HL-17404-05 Immunologic mechanisms in heart disease (mice)
R01HL-17596-03 Leukocyte-endothelial interactions (rats)
P01HL-17812-04 0005 Thrombosis and plasma proteins - In vitro systems of normal platelets, white cells, sera (human)
R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
R01HL-18219-04 Regulation of cholesterol metabolism (rats)
R01HL-18249-04 Isolation and identification of platelet membrane (human)
R01HL-18256-01 Optical properties of platelets and erythrocytes (rabbits, dogs, human)
R01HL-18284-04 Aging erythrocytes--Bio-recognition and elimination (monkeys)
** R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)
** R01HL-18553-03 Membrane defects in familial hypercholesteremia (human)
M P01HL-18577-03 Lipoproteins--Cell surface interactions
P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
P01HL-18577-03 0003 Lipoproteins--Cell surface interactions - Mechanism of lipid exchange in lipoproteins and cell membranes
R01HL-18584-03 Effects of physical forces on platelets (human)
P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
P50HL-18828-03 0002 Specialized center of research in thrombosis - Endothelial cell biology (human, guinea pig)
P50HL-18828-03 0008 Specialized center of research in thrombosis - Biochemistry, physiology--Platelets and subcellular platelet particles (human)
P50HL-18828-03 0009 Specialized center of research in thrombosis - Platelet formation and megakaryocyte cell biology (guinea pig, human)
R01HL-18878-03 Familial hypercholesteremia--Studies of fibroblasts (human)
R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
R01HL-19068-03 Changes in membrane properties during erythropoiesis (chick embryo)
P50HL-19171-02 0008 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Electron microscopy, radioautography, histochemistry
P50HL-19171-02 0009 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Scanning electron microscopy, freeze-fracture methods
P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R23HL-19594-01 Tropocollagen and tropoelastin uptake in lung cells (human)
R01HL-19725-03 Complement induced pulmonary injury (dogs, rabbits, sheep)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
R01HL-19836-03 Kinin inhibitors detected by use of receptors (cattle)
R01HL-19996-02 Role of membrane proteins in platelet function (human, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-20140-02 Glycoproteins of platelet membrane and platelet function (human)
R01HL-20365-03 Moleculer mechanisms of anion transport
R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
R01HL-20787-02 Thromboxanes and prostaglandins Biochemical pharmacology (rabbits, human)
R01HL-20899-02 Cellular mechanisms of hemoglobin F regulation (human)
** R01HL-20971-10 Membrane glycoproteins of platelets and leukocytes (human)
P60HL-20985-01 0006 Northern California sickle cell center - Antisickling properties of imidoesters (human, rats)
P01HL-21016-02 0009 Sickle cell anemia and other hemoglobinopathies - Nitrogen mustards and their potential use as antisickling agent
R01HL-21096-02 Sickle cell crisis--Role of the erythrocyte membrane (human)
R01HL-21217-01 Ion and 5-hydroxytryptamine transport by platelets
R01HL-21487-01 Molecular characterization of Glanzmann's thrombasthenia (human)
R23HL-21950-01 Endothelial cell mechanisms in vascular disease (human)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
** R01HL-22771-01 Thrombogenic phospholipid surfaces (cattle)
R23HL-22839-01 Cellular translation of liposomally-delivered mRNA (human, mammals)
R01HL-22883-01 Lung epithelial cell interactions in vitro
R01HL-22983-01 Studies on the catabolism of plasma lipoproteins (rats)
R01HL-23003-01 Bulk-surface distribution of cholesteryl esters
** R01HL-23161-01 0003 Biology of myocardial ischemia - Phosphorylase coupling to myocardial sarcoplasmic reticulum (dog)
R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)
N01HV-52907-04 Interactions of platelets with collagens (human, mammals)

MEMBRANE SYNTHESIS AND RECONSTITUTION

R01HL-02986-21 Zonal renal change with potassium deficiency (rats, human)
R01HL-08893-14 Structure and function of membrane proteins (human)
** P01HL-11310-12 0102 Mechanisms of cardiovascular disease - Cardiac membrane and ion mobility (dogs)
R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
R01HL-16507-04 Heart cell interactions and cell junction biogenesis (mice, rats, rabbits)
P01HL-16607-05 0001 Calcium ion and control of cardiovascular function - Bilayer lipid membranes, antibiotic probes, and SR function
R01HL-17411-04 Molecular studies of red blood cell spectrin (human)
** R01HL-18048-04 Dynamics of artificial and biological membranes (human)
R01HL-18255-04 Lipid-protein interactions and calcium transport (models)
** R01HL-18553-03 Membrane defects in familial hypercholesteremia (human)
** R01HL-19011-03 Smooth muscle cell membrane glycoprotein biosynthesis (cattle)
R01HL-19068-03 Changes in membrane properties during erythropoiesis (chick embryo)
** R01HL-19933-02 Membrane and red cell dysfunction in hemolytic anemia (human)
** R01HL-20635-03 Factors in lung development (rat and chick embryo)
** R01HL-21246-02 Roles of cholesterol and its metabolic regulation (CHO cell mutants)
R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
R01HL-21487-01 Molecular characterization of Glanzmann's thrombasthenia (human)
R01HL-21845-01 Human red cell membrane--Structure and function
R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
** R01HL-22174-01 Assembly of membranes in heart and yeast mitochondria
M P01HL-22619-01 Cellular mechanisms of heart failure
** P01HL-22619-01 0001 Cellular mechanisms of heart failure - Cell membrane isolation and reconstitution (dogs, lambs)
** P01HL-22619-01 0002 Cellular mechanisms of heart failure - Structure of sodium, potassium-adenosine triphosphatase (lambs, dogs)
** P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
R01HL-23593-01 Mast cell granules Structure and secretion (rats)

MENADIONE
SEE VITAMIN K3

MENADIONE REDUCTASE
SEE OXIDOREDUCTASES, NAD(P)H DEHYDROGENASE (QUINONE)

MENINGEAL HEMORRHAGES
SEE CEREBROVASCULAR DISORDERS, MENINGEAL HEMORRHAGES

MENINGITIS BACTERIAL
SEE NERVOUS DISORDERS CENTRAL, MENINGITIS BACTERIAL

MENINGOCOCCUS
SEE BACTERIA, NEISSERIACEAE, NEISSERIA MENINGITIDIS*

MENINGOPNEUMONITIS AGENT
SEE CHLAMYDIA, MENINGOPNEUMONITIS AGENT

MENKES' KINKY HAIR SYNDROME
SEE METABOLIC DISORDERS INBORN, KINKY HAIR SYNDROME

MENSTRUATION AND MENSTRUAL CYCLE
SEE FERTILITY, SEX CYCLES, MENSTRUATION

MENTAL DEFICIENCY
SEE MENTAL RETARDATION

MENTAL DISORDERS
SEE PSYCHOLOGY ABNORMAL, MENTAL DISORDERS (GENERAL)

MENTAL DISORDERS CHEMOTHERAPY
SEE PSYCHOLOGY ABNORMAL, MENTAL DISORDERS CHEMOTHERAPY

MENTAL HEALTH
SEE ALSO ALCOHOL RESEARCH REVIEW COMMITTEE
SEE ALSO BEHAVIORAL SCIENCES (DEVELOPMENTAL) STUDY SECTION
SEE ALSO EPIDEMIOLOGIC STUDIES REVIEW COMMITTEE
SEE ALSO PSYCHOLOGY, ATTITUDE TO HEALTH AND HEALTH PROBLEMS
P60HL-15162-07 0007 Comprehensive sickle cell center - Core program--Demographic studies (human)
R01HL-20187-01 Evaluation of exercise cardiac rehabilitation program (40-55 year old men)

MENTAL HEALTH EPIDEMIOLOGY
SEE ALSO EPIDEMIOLOGIC STUDIES REVIEW COMMITTEE
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
** R01HL-20724-01 Behavioral consequences of hypertension (human)

MENTAL HEALTH PERSONNEL ADJUNCT
R23HL-22947-01 Experimental systems to improve youth behavior (smoking prevention)

MENTAL HEALTH SERVICES
SEE ALSO CHILD MENTAL HEALTH (SERVICES)
P60HL-15170-05 0023 Support for center for sickle cell anemia - Comprehensive sickle cell clinic

MENTAL HEALTH SERVICES, COMMUNITY MENTAL HEALTH SERVICES
R23HL-22947-01 Experimental systems to improve youth behavior (smoking prevention)

MENTAL HEALTH SERVICES, COUNSELING
P60HL-20985-01 0008 Northern California sickle cell center - Demonstration community program--Patient ambudsman
R01HL-21323-02 Raynaud's disease and temperature self-regulation (human)

MENTAL HEALTH SERVICES, COUNSELING, GROUP
SEE ALSO PSYCHOTHERAPY, GROUP THERAPY
P01HL-10539-12 0064 Pathophysiology of circulation - Exercise physiology and pathophysiology (human)
R01HL-20910-02 The alternative diet for coronary disease prevention (human)
R01HL-21427-02 Behavioral changes in post infarction patients

MENTAL HEALTH SERVICES, REHABILITATION PSYCHOSOCIAL
** P01HL-10539-12 0031 Pathophysiology of circulation - Post myocardial infarction care--Psychological aspects (human)
P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
** R01HL-20637-02 Recovery after heart surgery--Bio-behavioral factors (human)

MENTAL HEALTH SERVICES, SOCIAL SERVICE PSYCHOSOCIAL
P60HL-15160-07 0017 Center for sickle cell disease - Demonstration--Education, screening, counseling, patient care
P60HL-15162-07 0001 Comprehensive sickle cell center - Core program--Patient care
P60HL-15999-05 0005 Miami comprehensive sickle cell center Sickle cell clinic
P60HL-16008-06 0001 Wayne State University comprehensive sickle cell center - Patient care system (children, adults)
P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center Education, screening and counseling

MENTAL HEALTH (SERVICES), YOUTH
P60HL-15162-07 0001 Comprehensive sickle cell center - Core program--Patient care
** R23HL-22947-01 Experimental systems to improve youth behavior (smoking prevention)

MENTAL PERFORMANCE
SEE PSYCHOLOGY, PERFORMANCE

MENTAL PROCESSES
SEE PSYCHOLOGY, MENTAL PROCESSES (GENERAL)

MENTAL RETARDATION
SEE ALSO CONGENITAL ABNORMALITIES, NEUROLOGICAL, DYSAUTONOMIA FAMILIAL
SEE ALSO METABOLIC DISORDERS INBORN, AMINOACIDOPATHIES, HOMOCYSTINURIA
SEE ALSO METABOLIC DISORDERS INBORN, HYPOLIPOPROTEINEMIAS FAMILIAL, ABETALIPOPROTEINEMIA
SEE ALSO METABOLIC DISORDERS INBORN, LIPID (NEUTRAL) STORAGE, WOLMAN'S DISEASE
SEE ALSO METABOLIC DISORDERS INBORN, MUCOPOLYSACCHARIDOSIS, I-CELL DISEASE
P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics
P01HL-09011-15 0018 A research and resource program in blood - Hepatitis B in normal populations--Epidemiology, risk factors and transmission
P01HL-09011-15 0020 A research and resource program in blood - Passive immunization in the prevention of transmission of hepatitis B (human)
P01HL-09011-15 0023 A research and resource program in blood - Evaluation of hepatitis B vaccine in endemic settings (human)
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)

MENTAL SET
SEE PSYCHOLOGY, ATTITUDES (AND RELATED)

MER
SEE BACTERIA, ACTINOMYCETALES, BACILLUS CALMETTE-GUERIN*

MERCAPTANS
SEE THIOLS

6-MERCAPTOPURINE
SEE THIOPURINES, 6-MERCAPTOPURINE

MERCURY (COMPOUNDS)
SEE METALS, HEAVY METALS, MERCURY

MERCURY POISONING
SEE METALS POISONING, MERCURY POISONING

MEROCARBOCYANINES
SEE MEROCYANINES

MEROCYANINES
P01HL-16117-05 0004 Ion movements and membranes in cardiovascular control - Optical studies of excitation-contraction coupling (frogs, snakes)
R01HL-17702-04 Electro-optical dyes as probes of heart excitability
R01HL-20254-02 Probes of heart and nerve membranes--Fluorescent dyes

MEROMYOSIN
SEE MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), MEROMYOSIN

MESENCEPHALON
SEE BRAIN, MESENCEPHALON

MESENTERIC VASCULAR INSUFFICIENCY
SEE GASTROINTESTINAL CIRCULATORY DISORDERS, CIRCULATORY INSUFFICIENCY

MESENTERY
SEE BODY CAVITIES, MESENTERY

MESOCRICETUS
SEE MAMMALS, RODENTS, MYDMORPHA, HAMSTERS*

MESSENGER RIBONUCLEIC ACID
SEE NUCLEIC ACIDS, MRNA

MESTRANOL
SEE ESTRATRIENE SERIES, MESTRANOL

MESTRANOL-NORETHYNODREL COMBINATIONS
SEE FERTILITY, ANTIFERTILITY DRUGS, MESTRANOL-NORETHYNODREL

METABOLIC DISORDERS
SEE ALSO AMINOACIDOPATHIES, ACQUIRED

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

SEE ALSO ARTHRITIS AND METABOLIC DISEASES PROGRAM PROJECT COMMITTEE
SEE ALSO CARBOHYDRATES METABOLISM DISORDERS
SEE ALSO ENDOCRINOLOGY, ENDOCRINE DISORDERS
SEE ALSO GASTROINTESTINAL DISORDERS, MALABSORPTION SYNDROMES
SEE ALSO IRON DISORDERS AND IMBALANCES
SEE ALSO LIPOIDAL DISORDERS
SEE ALSO METAL DISORDERS AND IMBALANCES
SEE ALSO PROTEINS METABOLISM DISORDERS
R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
** P01HL-06835-17 0050 Cardiovascular disease - 18-Hydroxylase block in the 17 alpha-hydroxylase deficiency syndrome (human)
R01HL-15810-06 Electrolyte physiology and respiratory acid-base (dogs)
R01HL-18206-04 Regulation of metabolism in oxygen deficient hearts (rats)

METABOLIC DISORDERS CHEMOTHERAPY

R01HL-11901-12 0006 Effects of metabolic surgery on the hyperlipidemias - Drug therapy with ileal bypass (rabbits)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-13632-08 Vascular changes in diabetes mellitus (human)
P50HL-14141-05 0003 SCOR for atherosclerosis in childhood - Detection of abnormalities in lipid metabolism (human, rabbits, rats)
** P50HL-14237-07 0006 Support for arteriosclerosis center - Drug treatment of familial hyperbetalipoproteinemia (human)
R01HL-15308-07 Assays for peptides of lipoproteins (human)
R01HL-18454-03 Maximal exercise testing in hyperlipidemic children
R01HL-20483-03 Sterol balance and cholesterol absorption in diabetics (human)

METABOLIC DISORDERS DIAGNOSIS*

SEE ALSO METABOLIC DISORDERS INBORN DIAGNOSIS*
P01HL-06285-18 0149 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in prediabetic and diabetic subjects (human)
** R01HL-15263-06 Lecithin--Cholesterol acetyltransferase (human, rabbits)
R01HL-19083-02 Rapid specific micro measurement of blood cholesterol
R01HL-20539-03 Blood glucose, hemoglobin A1c, and diabetic vascular disease (human)
R01HL-22567-01 Validation of a cholesterol absorption method in man

METABOLIC DISORDERS INBORN

SEE ALSO BLOOD COAGULATION DISORDERS, AFIBRINOGENEMIA
SEE ALSO BLOOD COAGULATION DISORDERS, CHRISTMAS DISEASE
SEE ALSO BLOOD COAGULATION DISORDERS, FACTOR VII DEFICIENCY
SEE ALSO BLOOD COAGULATION DISORDERS, FACTOR XI DEFICIENCY
SEE ALSO BLOOD COAGULATION DISORDERS, HEMOPHILIA
SEE ALSO BLOOD COAGULATION DISORDERS, VON WILLEBRAND'S DISEASE
SEE ALSO BLOOD PROTEINS DISORDERS CONGENITAL
SEE ALSO CONGENITAL ABNORMALITIES
SEE ALSO HEMOPROTEINS, HEMOGLOBINOPATHIES
SEE ALSO HEMOPROTEINS, MYOGLOBINOPATHIES
SEE ALSO LIPOGRANULOMATOSES, CEREBROTENDINOUS XANTHOMATOSIS
SEE ALSO LIPOGRANULOMATOSES, LIPOID PROTEINOSIS
SEE ALSO PURINES-PYRIMIDINES METABOLISM ERRORS
P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics
** R01HL-12944-09 Enzymatic and biochemical studies on blood cells (human)
** R01HL-15125-07 Molecular pathology of genetic disorders in man
P60HL-17265-04 0008 Community blood resource center support - Research--Blood genetic markers as biological probes (human)

METABOLIC DISORDERS INBORN, ACATALASEMIA

R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)

METABOLIC DISORDERS INBORN, AMINOACIDOPATHIES

R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)

METABOLIC DISORDERS INBORN, AMINOACIDOPATHIES, HOMOCYSTINURIA

R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
R01HL-11775-11 Platelet mechanisms in disease (human, primates)

METABOLIC DISORDERS (INBORN), AMYLOIDOSIS

** P01HL-03174-23 0002 Mechanisms of acute vascular reaction to injury - Chemical structure, pathological significance of amyloid substance (human, mice)
R01HL-16603-05 Human and experimental renal diseases (animals)

METABOLIC DISORDERS INBORN, ANGIONEUROTIC EDEMA (HEREDITARY)

** R01HL-15690-07 Hydrolytic enzymes of blood in health and disease (human, animals)

METABOLIC DISORDERS (INBORN), ANTITRYPSIN DEFICIENCY

R01HL-10009-13 Regional lung function in man
R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
** R01HL-12833-09 Genetic and environmental influences on lung disease (human)
P50HL-14136-07 0009 Pulmonary SCOR--Airways obstructive diseases - Tuscon epidemiological study of airways obstructive disease (human)
P50HL-14153-07 0001 Johns Hopkins Lung Center--Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)
R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
** R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
** R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
R01HL-14865-07 Biochemical studies on the pathogenesis of emphysema (human, rats)
R01HL-15125-07 Molecular pathology of genetic disorders in man
P01HL-15832-06 0004 Chemical-structural predispositions to lung injury - Proteolytic activity leucocytes in patients with obstructive lung disease
P01HL-16118-06 0004 Study of emphysema - Metabolic activity of pulmonary connective tissue (human, hamsters)
** R01HL-17194-03 Comparison of two inherited forms of alpha-1-antitrypsin (human)
P50HL-19171-02 0003 Pulmonary SCOR--Lung injury by childhood infections - Natural history, host defense defects--Children with chronic pulmonary disease
** R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)
R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
** R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
** R01HL-23595-01 Experimental emphysema--Depression of protease inhibitors (rats, hamsters)

METABOLIC DISORDERS INBORN, BARTTER'S SYNDROME

R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
** R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
** R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

METABOLIC DISORDERS INBORN, CEREBRO-HEPATO-RENAL SYNDROME

R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)

METABOLIC DISORDERS INBORN, CHEDIAK-HIGASHI SYNDROME

P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)

METABOLIC DISORDERS INBORN, CYSTIC FIBROSIS

P01HL-07896-15 0021 Environmental biomedical research program - Liquid breathing and lung lavage (human)
P01HL-08214-15 0006 Chemical and biological properties of lipids - Analysis and properties of lipids
P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
M R01HL-13885-08 Cystic fibrosis and pulmonary disease
** R01HL-13885-08 0005 Cystic fibrosis and pulmonary disease - Evaluation of lobar pulmonary lavage (human)
** R01HL-13885-08 0006 Cystic fibrosis and pulmonary disease - Cell mediated immunity and Pseudomonas infections in cystic fibrosis (human)
** R01HL-13885-08 0007 Cystic fibrosis and pulmonary disease - Alveolar macrophage defense mechanism (human, rabbits)
** R01HL-13885-08 0008 Cystic fibrosis and pulmonary disease - Pseudomonas specific activation of alveolar macrophages (human, rabbits)
** R01HL-13885-08 0009 Cystic fibrosis and pulmonary disease - Respiratory mucus glycoproteins (human, rabbits)
** R01HL-13885-08 9001 Cystic fibrosis and pulmonary disease - Pulmonary function core facility (infants, children)
** R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
** R01HL-13885-08 9003 Cystic fibrosis and pulmonary disease - Fiberoptic bronchoscopy core facility (human, dogs, sheep)
** P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLD
P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
** P50HL-14136-07 9005 Pulmonary SCOR--Airways obstructive diseases - Clinical core
** R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
R01HL-15526-05 Respiratory mechanics in children
** R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
P01HL-18574-03 0001 Lipoprotein methodology and biomedical applications - Ultracentrifugal and electrophoretic lipoprotein methodology--Applications
M P50HL-19157-02 Studies in cystic fibrosis and bronchiolitis
** P50HL-19157-02 0001 Studies in cystic fibrosis and bronchiolitis - Laboratory core unit
** P50HL-19157-02 0002 Studies in cystic fibrosis and bronchiolitis - Clinical core
** P50HL-19157-02 0003 Studies in cystic fibrosis and bronchiolitis - Nasal mucosal function in patients with cystic fibrosis
** P50HL-19157-02 0004 Studies in cystic fibrosis and bronchiolitis - Macromolecular regulators of mucus secretion--Invertebrate model
** P50HL-19157-02 0007 Studies in cystic fibrosis and bronchiolitis - Analysis of cystic fibrosis factors (human)
** P50HL-19157-02 0008 Studies in cystic fibrosis and bronchiolitis - Serum proteins in cystic fibrosis (human)
** P50HL-19157-02 0009 Studies in cystic fibrosis and bronchiolitis - Polyamine metabolism in cystic fibrosis (human, rat)
M P50HL-19160-02 Mucus abnormality in cystic fibrosis
** P50HL-19160-02 0001 Mucus abnormality in cystic fibrosis - Regulation of respiratory secretions (rat, human)
** P50HL-19160-02 0002 Mucus abnormality in cystic fibrosis - Ultrastructure, cytochemistry of pulmonary secretion (human, rat)
P50HL-19171-02 0003 Pulmonary SCOR--Lung injury by childhood infections - Natural history, host defense defects--Children with chronic pulmonary disease
R01HL-20675-02 Alveolar macrophage function in man
** R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
** R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)
** R23HL-21954-01 Exercise conditioning in patients with cystic fibrosis
** R23HL-22818-01 Biosynthesis of human respiratory mucous glycoprotein (also dog)
** N01HR-72920-01 Identify and quantify cystic fibrosis factors (human)
** N01HR-72921-01 Cystic fibrosis factor identification and quantification (human)
** N01HR-72922-01 Cystic fribrosis factor identication and quantification (human)
** N01HR-72923-01 Cystic fibrosis factor identification and quantification (human)

METABOLIC DISORDERS (INBORN), DIABETES INSIPIDUS

SEE ALSO PITUITARY-DIENCEPHALON HORMONES, VASOPRESSIN
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
P01HL-12738-10 0114 Physiologic pharmacology and its clinical applications - Receptor specificites and metabolism of neurohypophysial hormones (rats)
R01HL-19209-03 Role of AOH in experimental renal hypertension (dogs, rats)
R01HL-22411-01 Neuroendocrine involvement in hypertension (rats)

METABOLIC DISORDERS INBORN, DISACCHARIDE (OLIGOSACCHARIDE) INTOLERANCE

R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Indexed significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

METABOLIC DISORDERS INBORN, EHLERS-DANLOS SYNDROME

P01HL-18576-03 0004 Thrombosis research program project Mechanism and control of collagen-platelet interaction

METABOLIC DISORDERS INBORN, GLUCOSE-6-PHOSPHATE DEHYDROGENASE DEFICIENCY

SEE ALSO OXIDOREDUCTASES, GLUCOSE-6-PHOSPHATE DEHYDROGENASE

R01HL-07449-17 Formation and survival of red blood cells (human)
P60HL-15157-07 0001 Comprehensive center for sickle cell disease - Screening program (human)
P60HL-15157-07 0003 Comprehensive center for sickle cell disease - Public education
P60HL-15157-07 0012 Comprehensive center for sickle cell disease - Sickling and intracellular pH (human)
P60HL-15158-07 0004 Comprehensive sickle cell center - Expression of abnormal hemoglobin synthesis in the neonate and young child
P60HL-15168-07 0001 Comprehensive sickle cell disease center - Screening program (human)
P60HL-16005-05 9001 Comprehensive sickle cell center - Core laboratory and counseling (human)
** P01HL-20993-02 0003 Population dynamics of arterial cells in atherogenesis - Clonal phenomena in atherogenesis (human, hares)

METABOLIC DISORDERS INBORN, GLYCOGENOSIS

SEE ALSO PHOSPHOMONOESTERASES, GLUCOSE-6-PHOSPHATASES

R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)

METABOLIC DISORDERS INBORN, GLYCOGENOSIS, TYPE III

R01HL-15125-07 Molecular pathology of genetic disorders in man

METABOLIC DISORDERS INBORN, HEMOCHROMATOSIS

R01HL-07449-17 Formation and survival of red blood cells (human)

METABOLIC DISORDERS INBORN, HEPATOLENTICULAR DEGENERATION

R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)

METABOLIC DISORDERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL

R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)
** P01HL-06835-17 0026 Cardiovascular disease - Lipoproteins (human, guinea pig)
** P01HL-06835-17 0062 Cardiovascular disease - Role of collagen in atherosclerosis (dogs, pigeons)
** P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
R01HL-11901-12 0013 Effects of metabolic surgery on the hyperlipidemias - Human cholesterol and bile acids dynamics--Ileal bypass
R01HL-13626-06 Lipoprotein lipase and lipoprotein removal (human, rats, bacteria)
M P50HL-14197-07 Support for center of research on arteriosclerosis
** P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
** P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
** P50HL-14237-07 0005 Support for arteriosclerosis center - Genetic determinants of apolipoprotein variability in lipoproteins (human)
P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
P01HL-15596-05 0001 Coagulation, fibrinolysis, hemostasis and hepatitis - Defibrination (human)
** R01HL-16774-04 Genetic epidemiology of hyperlipemia (Honolulu)
** P60HL-17269-04 0001 National heart and blood vessel research and demonstration center - Atherosclerosis--Arterial pathology and plasma lipids (human)
P60HL-17269-04 0015 National heart and blood vessel research and demonstration center - Lipoprotein metabolism laboratory (human)
** R01HL-18687-03 Pathophysiology of genetic hypertriglycerinemias (human)
** R01HL-19095-03 Laser spectroscopy of lipoproteins (human)
** R01HL-20391-03 Polydisperse LDL--Structure, metabolism and function (human)
M P01HL-20948-02 Molecular basis of cholesterol metabolism
** P01HL-20948-02 0003 Molecular basis of cholesterol metabolism - LDL pathway in vivo (human, rats, guinea pigs)
P01HL-20948-02 0004 Molecular basis of cholesterol metabolism - Genetic analysis of the LDL pathway (human)
R01HL-20954-02 Hyperlipoproteinemia (rats, human)
P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
P50HL-21006-02 0002 Specialized center of research in arteriosclerosis - Turnover and metabolism of cholesterol in man
R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)
** R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)
** P01HL-22619-01 0012 Cellular mechanisms of heart failure - Apolipoproteins in hypertriglyceridemia (human)

METABOLIC DISORDERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE I

R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)
R01HL-22967-01 Structure and function of heparin releasable lipases (swine, human)

METABOLIC DISORDERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE II

R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
R01HL-08634-15 Enzymic cholesterol synthesis (human, rats, protozoa, yeast)
** R01HL-11901-12 0009 Effects of metabolic surgery on the hyperlipidemias - Cholesterol cord blood and family management program
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)
P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
P50HL-14230-07 0088 A/S SCOR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
** P50HL-14230-07 0093 A/S SCOR--Lipids, atherosclerosis and thrombosis - Clinical studies involving cellular lipid content (human)
P50HL-14230-07 0097 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)
** P50HL-14237-07 0006 Support for arteriosclerosis center - Drug treatment of familial hyperbetalipoproteinemia (human)
P50HL-15062-07 0013 Study of lipoproteins, artery wall, and atherosclerosis - Radioimmunoassay of apolipoproteins (human, monkeys)
R01HL-15308-07 Assays for peptides of lipoproteins (human)
P01HL-15596-05 0018 Coagulation, fibrinolysis, hemostasis and hepatitis - Increased plasma lipids on blood coagulation and thrombosis (human, animals)
R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
R01HL-15949-05 Lipoprotein metabolism in relation to atherosclerosis (human, baboons)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
** R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
** R01HL-18454-03 Maximal exercise testing in hyperlipidemic children
** R01HL-18553-03 Membrane defects in familial hypercholesteremia (human)
** P01HL-18827-02 0005 Platelet vessel wall interactions in thrombogenesis - Platelet vessel wall interactions in thrombogenesis (human)
** R01HL-18878-03 Familial hypercholesteremia--Studies of fibroblasts (human)
R01HL-19084-03 Structure and function of serum lipoproteins (human)
R01HL-19095-03 Laser spectroscopy of lipoproteins (human)
R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
R01HL-20183-02 Portacaval shunt as treatment for hyperlipemia (pigs)
R01HL-20218-02 Fibrinogen catabolism and intravascular coagulation (human)
** R01HL-20483-03 Sterol balance and cholesterol absorption in diabetics (human)
** R01HL-20807-02 Detection of familial hypercholesterolemia (human)
R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
R01HL-22474-01 Cholesterol metabolism and atherosclerosis (rats, human, rabbits)
R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)
R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)
** P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)
R01HL-22748-01 Effect of bile sequestration on VLDL metabolism (human)
** N01HV-12156-10 Lipid research clinic
** N01HV-12157-14 Lipid research clinic (human)
** N01HV-12158-10 Establishment of a lipid research clinic
N01HV-12160-15 Establishment of a lipid research clinic
N01HV-22913-09 Lipid research clinic
N01HV-22914-08 Establishment of a lipid research clinic

METABOLIC DISORDERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE III

R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
P50HL-14230-07 0097 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)
P50HL-15103-07 0013 A/S SCOR--Early natural history of arteriosclerosis - Experimental models of atherosclerosis (monkeys)
R01HL-15308-07 Assays for peptides of lipoproteins (human)
R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
** P60HL-17269-04 0045 National heart and blood vessel research and demonstration center - Regulation of lipogenesis in hyperlipoproteinemia (human, tissue culture)
P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
R01HL-18687-03 Pathophysiology of genetic hypertriglycerinemias (human)
R01HL-19095-03 Laser spectroscopy of lipoproteins (human)
R01HL-20807-02 Detection of familial hypercholesterolemia (human)
R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
** R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)
R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)
N01HV-12157-14 Lipid research clinic (human)

METABOLIC DISORDERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE IV

R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
P50HL-14230-07 0097 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of circulating platelet aggregates (human)
R01HL-15308-07 Assays for peptides of lipoproteins (human)
P01HL-15596-05 0018 Coagulation, fibrinolysis, hemostasis and hepatitis - Increased plasma lipids on blood coagulation and thrombosis (human, animals)
R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
R01HL-16807-02 Lipid structure of normal and hyperlipoproteins (human)
R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
P01HL-18645-03 0004 Biology of the artery wall and atherosclerosis - Human arterial smooth muscle cell and lipoprotein interaction
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
R01HL-19095-03 Laser spectroscopy of lipoproteins (human)
R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
R01HL-20218-02 Fibrinogen catabolism and intravascular coagulation (human)
R01HL-20391-03 Polydisperse LDL--Structure, metabolism and function (human)
** R01HL-20483-03 Sterol balance and cholesterol absorption in diabetics (human)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (humanr rabbits)
R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)
R01HL-22748-01 Effect of bile sequestration on VLDL metabolism (human)

METABOLIC DISORDERS INBORN, HYPERLIPOPROTEINEMIAS FAMILIAL, TYPE V

R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)
P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
P01HL-15596-05 0018 Coagulation, fibrinolysis, hemostasis and hepatitis - Increased plasma lipids on blood coagulation and thrombosis (human, animals)
R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
R01HL-16807-02 Lipid structure of normal and hyperlipoproteins (human)
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
R01HL-22678-01 Role of apolipoproteins in hypertriglyceridemia (human)

METABOLIC DISORDERS INBORN, HYPOLIPOPROTEINEMIAS FAMILIAL, ABETALIPOPROTEINEMIA

R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
** R01HL-06481-15 Lipid metabolism (human, rats)
R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs

METABOLIC DISORDERS INBORN, HYPOLIPOPROTEINEMIAS FAMILIAL, TANGIER DISEASE

R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)

METABOLIC DISORDERS INBORN, HYPOPHOSPHATASIA

SEE ALSO PHOSPHOMONOESTERASES, ALKALINE PHOSPHATASE
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)

METABOLIC DISORDERS INBORN, KINKY HAIR SYNDROME

R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)

METABOLIC DISORDERS INBORN, LCAT DEFICIENCY

** R01HL-10642-18 Plasma cholesterol metabolism (human, macaca)
** R01HL-15263-06 Lecithin--Cholesterol acetyltransferase (human, rabbits)
P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
P01HL-18574-03 0005 Lipoprotein methodology and biomedical applications - Structure and function of lipoproteins
P01HL-18645-03 0001 Biology of the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

METABOLIC DISORDERS INBORN, LIPID (NEUTRAL) STORAGE

SEE ALSO LIPOGRANULOMATOSES, CEREBROTENDINOUS XANTHOMATOSIS
R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
N01HV-53015-09 Establishment of a lipid research clinic (human)

METABOLIC DISORDERS INBORN, LIPID (NEUTRAL) STORAGE, CHOLESTEROL ESTER STORAGE DISEASE

R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)

METABOLIC DISORDERS INBORN, LIPID (NEUTRAL) STORAGE, WOLMAN'S DISEASE

R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)

METABOLIC DISORDERS INBORN, LYSOSOMAL DISORDERS

SEE ALSO BLOOD AND RE DISORDERS, LEUKOCYTE DISORDERS, PHAGOCYTE DYSFUNCTION (GENERAL)
SEE ALSO METABOLIC DISORDERS INBORN, ACATALASEMIA
SEE ALSO METABOLIC DISORDERS INBORN, CHEDIAK-HIGASHI SYNDROME
SEE ALSO METABOLIC DISORDERS INBORN, GLYCOGENOSIS
SEE ALSO METABOLIC DISORDERS INBORN, HYPOPHOSPHATASIA
SEE ALSO METABOLIC DISORDERS INBORN, LIPID (NEUTRAL) STORAGE
SEE ALSO METABOLIC DISORDERS INBORN, MUCOPOLYSACCHARIDOSIS, I-CELL DISEASE
P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
R01HL-14595-07 Primary disorders of platelet function (human, rats)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)

METABOLIC DISORDERS INBORN, MARFAN SYNDROME

** R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)

METABOLIC DISORDERS INBORN, MUCOPOLYSACCHARIDOSIS, I-CELL DISEASE

P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)

METABOLIC DISORDERS INBORN, MUSCULAR DYSTROPHY

P01HL-16607-05 0006 Calcium ion and control of cardiovascular function - Sarcomere and contractile dynamics of striated muscle cells (animals)
P01HL-16607-05 0007 Calcium ion and control of cardiovascular function - Ultrastructure and conformation in sarcoplasmic reticulum (rabbits)
R01HL-19068-03 Changes in membrane properties during erythropoiesis (chick embryo)

METABOLIC DISORDERS INBORN, MYOTONIA ATROPHICA

R01HL-19639-02 Permeability transients of carriers, channels and heart
R01HL-20241-02 Shear and area moduli for abnormal red cell membranes (human)

METABOLIC DISORDERS INBORN, MYOTONIA CONGENITA

R01HL-22985-01 Properties and assembly of Z-disk proteins (human, other species)

METABOLIC DISORDERS INBORN, OBESITY HEREDITARY HYPERGLYCEMIC

** P01HL-06285-18 0150 Cardiovascular-respiratory physiology and biochemistry - Basement membrane width in non-diabetic hyperglycemia

METABOLIC DISORDERS INBORN, PHOSPHOGLYCERATE KINASE DEFICIENCY

R01HL-15125-07 Molecular pathology of genetic disorders in man

METABOLIC DISORDERS (INBORN), PORPHYRIA

R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)

METABOLIC DISORDERS INBORN, PORPHYRIA, PROTOPORPHYRIA

R01HL-22252-01 Synthesis of labeled hemes for protein NMR studies

METABOLIC DISORDERS INBORN, PYRUVATE KINASE DEFICIENCY

P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)

METABOLIC DISORDERS (INBORN), RENAL TUBULAR ACIDOSIS

R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)

METABOLIC DISORDERS INBORN, TRANSPORT DISORDERS

SEE ALSO METABOLIC DISORDERS INBORN, BARTTER'S SYNDROME
SEE ALSO METABOLIC DISORDERS INBORN, CYSTIC FIBROSIS
SEE ALSO METABOLIC DISORDERS (INBORN), RENAL TUBULAR ACIDOSIS
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)

METABOLIC DISORDERS INBORN DIAGNOSIS*

SEE ALSO DIAGNOSTIC TESTS, CYTODIAGNOSIS, CILIOINHIBITORY TEST*
** R01HL-11901-12 0009 Effects of metabolic surgery on the hyperlipidemias - Cholesterol cord blood and family management program
R01HL-14865-07 Biochemical studies on the pathogenesis of emphysema (human, rats)
R01HL-15308-07 Assays for peptides of lipoproteins (human)
** R01HL-15949-05 Lipoprotein metabolism in relation to atherosclerosis (human, baboons)
R01HL-17194-03 Comparison of two inherited forms of alpha-1-antitrypsin (human)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
** R01HL-19095-03 Laser spectroscopy of lipoproteins (human)
** P50HL-19157-02 0001 Studies in cystic fibrosis and bronchiolitis - Laboratory core unit
P50HL-19157-02 0007 Studies in cystic fibrosis and bronchiolitis - Analysis of cystic fibrosis factors (human)
** R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
** N01HR-72920-01 Identify and quantify cystic fibrosis factors (human)
** N01HR-72922-01 Cystic fibrosis factor identication and quantification (human)
** N01HR-72923-01 Cystic fibrosis factor identification and quantification (human)
N01HV-12157-14 Lipid research clinic (human)

METABOLISM*

SEE ALSO BIOENERGETICS
SEE ALSO BRAIN METABOLISM
SEE ALSO CALCIUM (MINERAL) BALANCE (METABOLISM)
SEE ALSO CARBOHYDRATES METABOLISM
SEE ALSO ENDOCRINOLOGY, HORMONES METABOLISM
SEE ALSO FATTY ACIDS METABOLISM
SEE ALSO FATTY ACIDS METABOLISM, PROSTAGLANDINS METABOLISM
SEE ALSO HEMOPROTEINS METABOLISM
SEE ALSO LIPIDS METABOLISM
SEE ALSO LIVER METABOLISM
SEE ALSO MUSCLE METABOLISM
SEE ALSO NEUROTRANSMITTERS METABOLISM
SEE ALSO NITROGEN BALANCE
SEE ALSO NUCLEIC ACIDS METABOLISM
SEE ALSO PROTEINS METABOLISM
SEE ALSO STEROID METABOLISM
SEE ALSO TOXICOLOGY, TOXICANT METABOLISM
SEE ALSO VITAMINS METABOLISM
** P01HL-06285-18 0209 Cardiovascular-respiratory physiology and biochemistry - Metabolic studies of isolated lung cells (human, animals)
** P01HL-06308-18 0037 Mechanisms and therapy of circulatory disease - Electrophysiology, blood flow, and ANS in ventricular fibrillation (dogs)
P01HL-06312-17 0034 Surgical cardiology - Metabolic factors in cardiac function--Creatine phosphate depletion (animals)
** P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)
** P01HL-06314-17 0053 Immunologic mechanisms in cardiovascular disease - Cellular functions controlled by cyclic GMP (human, mice, guinea pigs)
P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
** P01HL-06664-17 0040 Cardiopulmonary function in remediable vascular disease - The coupling of ion transport to metabolism (toads)
P01HL-07896-15 0033 Environmental biomedical research program - Breathing mechanism in birds
** P01HL-08805-15 0047 Regulation of ventilation and pulmonary circulation - Extracranial metabolic control of ventilation (dogs, goats)
** P01HL-08899-14 0012 Tolerance to respiratory gases in health and disease - High oxygen for normal brain metabolism and circulation in man
** P01HL-08899-14 0013 Tolerance to respiratory gases in health and disease - Oxygen and carbon dioxide effects upon human brain metabolism
P01HL-08899-14 0027 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on ethanol metabolism (human)
** P01HL-08899-14 0035 Tolerance to respiratory gases in health and disease - Simulation of the increased metabolism of exercise (dogs)
** P01HL-08899-14 0051 Tolerance to respiratory gases in health and disease - Oxygen effects upon isolated retinal metabolism (rabbits, monkeys)
** P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-10342-13 0025 The integrated function of respiration and circulation - Pulmonary gas exchange and metabolism (human, dogs, sheep)
P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease Physiologic consequences of chronic hypoxemia (human)
** P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
** P01HL-11310-12 0067 Mechanisms of cardiovascular disease - Cardiac performance with measured homodynamic variables (human)
** R01HL-13921-07 The lung as a metabolic organ (animals)
** R01HL-14456-07 Lung metabolism--Enzymes in the pulmonary circulation (human, animals)
** R01HL-14461-08 Cardiac metabolism in heart failure (rats)
** P01HL-15194-07 0018 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, metabolic demand and vasodilatory reserve (human, dogs)
R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)
** P01HL-16118-06 0006 Study of emphysema - Metabolism of elastin (hamsters)
P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
** R01HL-17403-03 Metabolic control of cardiac output (dogs)
P01HL-17419-04 0001 Studies on mechanisms of hemostasis - Structure and metabolism of fibrinogen (human)
** P01HL-17421-05 0002 Regulation and exchange in the microcirculation - Metabolic and myogenic blood flow regulation in microcirculation (animals)
** R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
R01HL-17853-03 Peripheral circulation in heart failure (animals)
R01HL-18280-03 Regulation of cardiac contractility and metabolism (rats)
R01HL-20566-02 Lactate metabolism in the lung (rats)
R01HL-20782-01 Coronary flow regulation by adenosine (rats, dogs)
M P01HL-20948-02 Molecular basis of cholesterol metabolism
P01HL-20948-02 0001 Molecular basis of cholesterol metabolism - Biochemical and ultrastructural characterization of LDL in human fibroblasts
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
** P01HL-20948-02 0003 Molecular basis of cholesterol metabolism - LDL pathway in vivo (human, rats, guinea pigs)
P01HL-20948-02 0004 Molecular basis of cholesterol metabolism - Genetic analysis of the LDL pathway (human)
** P01HL-20948-02 9001 Molecular basis of cholesterol metabolism - Tissue culture core laboratory
** P01HL-20948-02 9002 Molecular basis of cholesterol metabolism - Microscopy core laboratory
R23HL-21853-01 Lung metabolism and alveolo-capillary permeability (rats)
** R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)
** R01HL-22088-02 Metabolic basis for diabetic microangiopathy (cattle)
P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
** P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
** P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)

METABOLISM, BIOTRANSFORMATION

SEE ALSO TOXICOLOGY, TOXICANT METABOLISM, DETOXICATION

** P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury - Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)
R01HL-07878-16 Metabolism of neutral sterols (rats, rabbits)
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
R01HL-17513-04 Role of PF-4 in detecting and promoting thrombosis (human, primates)
R01HL-18554-03 Taurine metabolism in mammalian heart (rodents, cattle, swine)
P01HL-18574-03 0005 Lipoprotein methodology and biomedical applications - Structure and function of lipoproteins
** P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
P50HL-19170-02 0005 Harvard pulmonary SCOR--Chronic diseases of the airways - Pulmonary toxicology of plastics intermediates and pyrolysis products (animal)
R01HL-21874-01 SRS-A--Its biosynthesis and action

METABOLISM OF HEMOPROTEINS

SEE HEMOPROTEINS METABOLISM

METABOLISM OF IRON

SEE IRON METABOLISM

METABOLISM OF METALS

SEE METAL METABOLISM

METABOLISM STUDY SECTION

** R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
** R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)
** R01HL-03734-18 Metabolism of arterial tissue in atherosclerosis (rabbits)
** R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
** R01HL-05360-19 Cholesterol biosynthesis and its control in liver (rats)
** R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
** R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)
** R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
** R01HL-07878-16 Metabolism of neutral sterols (rats, rabbits)
** R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
** R01HL-08634-15 Enzymic cholesterol synthesis (human, rats, protozoa, yeast)
** R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
** R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
** R01HL-10160-13 Origins of atherosclerosis (human)
** R01HL-10316-13 Structural studies on low density serum lipoproteins (human)
** R01HL-10933-13 Fat metabolism and atherosclerosis (rabbits, cattle, human, rats)
** R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
** R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
** R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
** R01HL-13028-09 Regulation of myocardial fatty acid metabolism (rats)
** R01HL-13029-09 Metabolic regulation of sugar transport (pigeons, rats)
** R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
** R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)
** R01HL-13626-06 Lipoprotein lipase and lipoprotein removal (human, rats, bacteria)
** R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
** R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)
** R01HL-14990-07 Lipid transport in avian species (chickens)
** R01HL-15263-06 Lecithin--Cholesterol acetyltransferase (human, rabbits)
** R01HL-15308-07 Assays for peptides of lipoproteins (human)
** R01HL-15427-06 Secretion of plasma lipoproteins (rats)
** R01HL-15567-05 Cardiovascular phosphoinositide metabolism (rats)
** R01HL-15646-03 Lipid studies in vascular smooth muscle cells (human, monkeys)
** R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
** R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
** R01HL-15949-05 Lipoprotein metabolism in relation to atherosclerosis (human, baboons)
** R01HL-16059-06 Structure and function of serum lipoproteins (cattle, human)
** R01HL-16294-04 Effectors of cholesterol synthesis (rats)
** R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
** R01HL-16577-04 Lipoprotein lipase chemistry and function (rats, cattle, human)
** R01HL-16796-05 Cholesterol regulation by HMG-CoA reductase (rats, human)
** R01HL-16807-02 Lipid structure of normal and hyperlipoproteins (human)
** R01HL-17371-05 Regualtion of cholesteryl ester levels in the aorta (swine)
** R01HL-17463-03 Composition and structure of plasma lipoproteins (human, rabbits)
** R01HL-17597-05 Role of plasma lipoproteins in atherosclerosis (swine, human)
** R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
** R01HL-18094-04 Regulation of cholesterol biosynthesis (rats)
** R01HL-18206-04 Regulation of metabolism in oxygen deficient hearts (rats)
** R01HL-18219-04 Regulation of cholesterol metabolism (rats)
** R01HL-18258-04 Regulation of protein degradation in heart (rats)
** R01HL-18553-03 Membrane defects in familial hypercholesteremia (human)
** R01HL-18687-03 Pathophysiology of genetic hypertriglycerinemias (human)
** R01HL-18705-03 Regulation of plasma triglyceride metabolism (rats)
** R01HL-18878-03 Familial hypercholesteremia Studies of fibroblasts (human)
** R01HL-18887-03 Hypolipidemic drugs--Effects on FFA albumin association (human, cattle)
** R01HL-19063-03 Cholesterol and lipoprotein metabolism (rat hepatocytes)
** R01HL-19084-03 Structure and function of serum lipoproteins (human)
** R01HL-19168-03 Biosynthesis of plasma lipoprotein (rats, rabbits)
** R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
** R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
** R01HL-19250-03 Mechanism of plasma cholesterol esterification (human)
** R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
** R01HL-20061-02 Serum lipoproteins and cell cholesterol metabolism (rats, human)
** R01HL-20308-02 Regulation of myocardial acylcarnitine transport (rats)
** R01HL-20712-02 Characterization of the B proteins of serum lipoproteins (human)
** R01HL-20807-02 Detection of familial hypercholesterolemia (human)
** R01HL-20954-02 Hyperlipoproteinemia (rats, human)
** R01HL-21381-02 Amino acid metabolism in normal and hypoxic myocardium (rabbits)
** R01HL-22474-01 Cholesterol metabolism and atherosclerosis (rats, human, rabbits)
** R01HL-22532-01 Inhibitors of cholesterol biosynthesis (rats, mice, yeast)
** R01HL-22567-01 Validation of a cholesterol absorption method in man
** R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)
** R01HL-22618-01 Role of apolipoproteins in hypertriglyceridemia (human)
** R01HL-22748-01 Effect of bile sequestration on VLDL metabolism (human)
** R01HL-22812-01 Regulation of hepatic production of HDL (rats)
** R01HL-22967-01 Structure and function of heparin releasable lipases (swine, human)
** R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

METAGENESIS

SEE BIOLOGY, LIFE CYCLE

METAL CHELATES

SEE METAL COMPLEXES

METAL COMPLEXES

SEE ALSO PORPHYRINS, METALLOPORPHYRINS

** R01HL-12395-10 X-ray study of oxygen-carrying cobalt complexes
R01HL-15640-06 Thermodynamic studies on model oxygen carriers
R01HL-17739-04 Acute myocardial infarct scintigraphy (human, dogs, rats)
R01HL-18744-03 Preparation of radiopharmaceuticals from drug analogs
** R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
R01HL-19982-02 Blood coagulation--Protein-metal ion-lipid interactions
** R01HL-20996-02 Structural and reactivity of iron and cobalt complexes

METAL COMPLEXES, LIGANDS

R01HL-01974-24 Ion-pump in the erythrocyte (rabbits, guinea pigs)
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
** P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changes in lymphocytes (human, mice)
R01HL-07451-16 Hemoglobin S gelation and hemoglobin allostery (human)
P01HL-07896-15 0052 Environmental biomedical research program - Effects of hypoxia on cerebral function
R01HL-08299-16 Molecular biology of hemerythrin and hemocyanin (invertebrates)
P01HL-11310-12 0102 Mechanisms of cardiovascular disease - Cardiac membrane and ion mobility (dogs)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
** R01HL-12524-10 Reaction of hemoglobin with ligands and antibodies (human, carp)
R01HL-12526-09 Raman spectra of heme proteins and related molecules
R01HL-13035-08 Heart mitochondrial malate dehydrogenase regulation

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-13157-09 Molecular oxygen carriers--Synthesis, structure, bonding
R01HL-13164-07 Interaction of the alpha and beta chains of human hemoglobin
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
** R01HL-13412-17 Synthetic oxygen carriers
** R01HL-13531-06 Cobaglobins--Cobalt substituted myo- and hemoglobins
R01HL-13581-11 Reactions of oxygen with heme proteins
R01HL-13909-27 Physiochemistry and immunology of macromolecules
R01HL-13921-07 The lung as a metabolic organ (animals)
P01HL-14388-07 0175 Regulation of the circulation in pathological states - Functional studies of selected proteins from cardiac muscle
** R01HL-15284-06 Hemoglobin and myoglobin kinetic studies (human, animals)
R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)
P01HL-15596-05 0020 Coagulation, fibrinolysis, hemostasis and hepatitis - Affinity chromatography
R01HL-15627-06 X-ray and chemical studies of metalloporphyrins
R01HL-15640-06 Thermodynamic studies on model oxygen carriers
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
R01HL-16087-05 Structural and dynamic study of model heme complexes (yeast)
** R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
R01HL-16101-05 Protein-lipid interaction (bacteria, models)
R01HL-16375-04 Investigation of hemoglobin S properties (human)
R01HL-16549-04 Cardiotonic steroid-NaK ATPase interactions (cattle)
** R01HL-16746-04 Design of ion-selective molecules
M P01HL-16833-04 Hemoglobin and red cell system in hemoglobinopathies
** P01HL-16833-04 0001 Hemoglobin and red cell system in hemoglobinopathies - Motility, association and ligand binding in hemoglobin--Hydrogen exchange
P01HL-16833-04 0002 Hemoglobin and red cell system in hemoglobinopathies - Polymerization and gel formation in solutions of hemoglobin A and S (human)
P01HL-16833-04 0006 Hemoglobin and red cell system in hemoglobinopathies - Role of water in function of hemoglobin and myoglobin (human)
P01HL-16833-04 0017 Hemoglobin and red cell system in hemoglobinopathies - Sulfhydryl group blockade antisickling effect (human)
** R01HL-17494-07 Mechanism of ligand binding to hemoglobin (human)
R01HL-17976-18 Chemical agents and heart glycolytic enzymes (sheep)
R01HL-18309-04 Oxygen transport--Hemoglobins with modified hemes (horse)
R01HL-19129-04 Cardiac glycosides--Mechanisms of cellular actions
R01HL-19423-03 Catecholamine action on the heart (cats, rats)
R01HL-19481-03 High-field NMR studies of respiratory proteins (human, horse, fish, microbes)
R01HL-19488-03 Picosecond laser studies of heme-proteins
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport
P01HL-20984-02 0002 Cellular mechanisms in cardiac hypertrophy - Thermodynamic, fluorescence, chemical modification of hypertrophied heart myosin
R01HL-20996-02 Structural and reactivity of iron and cobalt complexes
** P01HL-21016-02 0005 Sickle cell anemia and other hemoglobinopathies - Ligand kinetics in normal and Hb S containing erythrocytes (human)
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
R01HL-21461-01 Heme group protein interactions in hemoproteins
R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin
R01HL-21540-02 Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs)
R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)
R01HL-22265-02 Isozymes of heart glutamate aspartate transaminase (swine, ducks)
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
P01HL-22619-01 0004 Cellular mechanisms of heart failure - Mechanism of action of Na, K-ATPase (sheep, cattle)
R01HL-22780-01 Factors modifying the reaction properties of HgS (human)

METAL COMPLEXES, LIGANDS, CHELATING AGENTS

SEE ALSO SULFUR AMINO ACIDS, PENICILLAMINE
R01HL-16746-04 Design of ion-selective molecules
R01HL-17739-04 Acute myocardial infarct scintigraphy (human, dogs, rats)
** R01HL-17794-03 Chelating agents as blood substitutes
** R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R01HL-19491-03 Mechanism of iron storage and mobilization by ferritin (horse)
** R01HL-21273-02 Fibrinogen labeling with radiometals
** R01HL-23120-01 Chelating agents as blood substitutes

METAL DISORDERS AND IMBALANCES

SEE ALSO BODY FLUID BALANCE, IONIC, HYPERKALEMIA
SEE ALSO BODY FLUID BALANCE, IONIC, HYPOKALEMIA
SEE ALSO BODY FLUID BALANCE, IONIC, HYPONATREMIA
SEE ALSO IRON DISORDERS AND IMBALANCES
** R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)
P50HL-14214-07 0028 Newborn lung center for hyaline membrane disease - Relationship of trace metals to respiratory failure (dog, sheep, human)
** P60HL-16008-06 0015 Wayne State University comprehensive sickle cell center - Trace elements in sickle cell disease (human)

METAL DISORDERS AND IMBALANCES, HYPOCUPREMIA

SEE ALSO METABOLIC DISORDERS INBORN, KINKY HAIR SYNDROME
** R01HL-12561-11 Cardiovascular studies on copper deficiency (swine)
P50HL-14214-07 0028 Newborn lung center for hyaline membrane disease - Relationship of trace metals to respiratory failure (dog, sheep, human)
R01HL-18918-03 Characterization of lung elastins (rat, rabbit, chicken, Rhesus)

METAL DISORDERS AND IMBALANCES, MAGNESIUM DEFICIENCY

R01HL-23128-01 Cardiac contractility--Ischemia and hypoxia (rabbits, rats)

METAL METABOLISM

SEE ALSO IRON METABOLISM
** R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)

METAL METABOLISM DISORDERS

SEE METAL DISORDERS AND IMBALANCES

METALLIC COMPOUNDS ORGANIC

SEE ALSO METAL COMPLEXES
SEE ALSO METALLOPROTEINS
SEE ALSO PORPHYRINS, METALLOPORPHYRINS
SEE ALSO PORPHYROPROTEINS, METALLOPORPHYROPROTEINS
R01HL-20996-02 Structural and reactivity of iron and cobalt complexes

METALLOBORANES

SEE METALS, BORON COMPOUNDS, BORANES

METALLOENZYMES

SEE ENZYMES, METALLOENZYMES

METALLOPORPHYRINS

SEE PORPHYRINS, METALLOPORPHYRINS

METALLOPORPHYROPROTEINS

SEE PORPHYROPROTEINS, METALLOPORPHYROPROTEINS

METALLOPROTEINS

SEE ALSO ALBUMINS, CONALBUMIN
SEE ALSO ENZYMES, METALLOENZYMES
SEE ALSO METAL METABOLISM
SEE ALSO PORPHYROPROTEINS, METALLOPORPHYROPROTEINS
** R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
** R01HL-13652-08 Metal sites in metalloproteins (mushroom)
R01HL-21461-01 Heme group protein interactions in hemoproteins
R01HL-22252-01 Synthesis of labeled hemes for protein NMR studies

METALLOPROTEINS, CERULOPLASMIN

R01HL-16601-05 Structure and function of blood proteins (human, cattle)

METALLOPROTEINS, CYTOCUPREINS

** P01HL-07896-15 0039 Environmental biomedical research program - Development of resistance to lethal effects of oxygen (rats)
P01HL-07896-15 0047 Environmental biomedical research program - Pulmonary oxygen toxicity (chickens, rabbits)
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
R01HL-14663-07 Pulmonary oxygen toxicity in newborn lung (human, mice)
P50HL-15061-07 0009 Response of lung to injury - Alveolar macrophages (human, rabbits)
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
P50HL-18828-03 0008 Specialized center of research in thrombosis - Biochemistry, physiology--Platelets and subcellular platelet particles (human)
R01HL-19532-01 Oxygen toxicity in the red cell (human)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
R01HL-20352-02 Defenses of lung cells against oxygen toxicity (human, animals)
R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
** R01HL-21115-01 Prevention of O2 toxicity with superoxide dismutase (rats)

METALLOPROTEINS, FERREDOXIN

R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
R01HL-13652-08 Metal sites in metalloproteins (mushroom)

METALLOPROTEINS, FERRITIN

P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo--Capillary membrane in normal pulmonary hypertensive lung
P01HL-09011-15 0015 A research and resource program in blood - Regulation of synthesis and transport of diverse proteins in liver (rats)
** R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)
** R01HL-19491-03 Mechanism of iron storage and mobilization by ferritin (horse)
** R01HL-20141-02 Biochemical approaches to management of iron overload (human, sheep, dogs)
P01HL-22602-01 0002 Pathophysiology of the endothelium - Molecular charge and endothelial permeability (rats, mice)

METALLOPROTEINS, HEMERYTHRIN

** R01HL-08299-16 Molecular biology of hemerythrin and hemocyanin (invertebrates)
** R01HL-17828-04 Kinetic studies of hemerythrin reactions (marine worms)

METALLOPROTEINS, HEMOCYANIN

** R01HL-08299-16 Molecular biology of hemerythrin and hemocyanin (invertebrates)
R01HL-13157-09 Molecular oxygen carriers--Synthesis, structure, bonding
R01HL-22325-01 Thermodynamics in respiratory protein binding (human, trout)

METALLOPROTEINS, TRANSFERRIN

R01HL-06242-18 Kinetic studies of blood (human)
R01HL-07449-17 Formation and survival of red blood cells (human)
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
** R01HL-18619-03 Transferrin iron binding and transport properties (chicken, rabbit, human)
** R01HL-19132-04 Role of zinc transferrin in lymphocyte transformation (human)
P50HL-19155-02 0002 Pathophysiology of pulmonary edema - Non-invasive measurement of protein turnover in human lung (also sheep)
** R01HL-20141-02 Biochemical approaches to management of iron overload (human, sheep, dogs)
** R01HL-21170-01 Molecular structure of human serum transferrin

METALS

R01HL-20037-02 Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle)
P01HL-22619-01 0005 Cellular mechanisms of heart failure - Molecular mechanism of regulation of cardiac muscle contraction (cattle)

METALS, ALKALI METALS

SEE ALSO LITHIUM
SEE ALSO POTASSIUM
SEE ALSO SODIUM
R01HL-16474-05 Antibiotic-ion interactions (model membranes)

METALS, ALKALI METALS, CESIUM

R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)

METALS, ALKALI METALS, RUBIDIUM

SEE ALSO RADIOISOTOPES, RUBIDIUM
R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)

METALS, ALKALINE EARTH METALS

SEE ALSO CALCIUM
R01HL-16474-05 Antibiotic-ion interactions (model membranes)

METALS, ALKALINE EARTH METALS, BARIUM

P01HL-14388-07 0178 Regulation of the circulation in pathological states - Structural and functional consequences of denervation (rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-16746-04 Oesign ef ion-selective molecules
R01HL-18912-03 Mechanics of heert muscle contrection (cats, dogs)
R01HL-21670-01 Antierrhythmic studies on 2-substituted aminoindenes (dogs)

METALS, ALKALINE EARTH METALS, BERYLLIUM

SEE ALSO METALS POISONING, BERYLLIOSIS
P50HL-14212-07 0013 Correleted studies of pulmenery fibrosis - Mechenism of beryllium pethogenicity in the lung (humen, rebbit, guinee pig)

METALS, ALKALINE EARTH METALS, MAGNESIUM

SEE ALSO METAL OISOROERS ANO IMBALANCES, MAGNESIUM OEFICIENCY
R01HL-01974-24 Ion-pump in the erythrocyte (rebbits, guinee pigs)
P01HL-06312-17 0051 Surgical cardiology - Oiuretic therapy on myocardiel electrolyte cemposition and water content (humen)
R01HL-09364-14 Ion transport by heart mitochondria (cettle, rat, rabbit)
R01HL-10503-13 Cardiec ion transport and ultrastructure (rats, guinee pigs, rebbits)
** R01HL-12774-08 Ionic coupling in activation of cardiac muscle (frogs, guinea pigs)
R01HL-13193-09 Pethophysiology of post-traumetic end shock stetes (rodents, dogs)
R01HL-14020-06 Characterization of myosin from blood platelets (rabbit)
P01HL-14388-07 0179 Regulation ef the circuletion in pethological stetes - Cultured muscle cells end their cress-innervetion in vitro (rats, sheep)
** P01HL-14388-07 0192 Regulation ef tha circulation in pethological stetes - Renel tubuler secretien of magnesium (rats)
R01HL-15692-07 Force end speed in skeletel end cerdiac muscle
P01HL-15835-06 0001 Study of muscles related to heert disease - Control of contraction-relaxation of heert and muscle (rabbits, chickens)
P01HL-15835-06 0021 Study of muscles related to heart diseese - Fast kinetic studies in muscle subcellular orgenelles (animals)
R01HL-16010-16 Cellular basis of cardiec contrectility (frogs)
R01HL-16746-04 Oesign of ion-selective molecules
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
P60HL-17269-04 0019 National heart end blood vessel reseerch and demonstration center - Sarcoplesmic reticulum (dog, rebbit, hamster, cat)
R01HL-18179-03 Heert, platelet, and muscle myosins and actomyosins (cettle)
R01HL-18737-03 Human erythrocyte membrane structure
R01HL-19485-03 Calcium uptake by normel and failed cardiac ATPese (dogs)
R01HL-19673-03 Surgical aspects of shock and hypexie (dogs, monkeys, rats)
R01HL-20079-02 0001 Thromboresistant meterial - Active and passive thremboresistant surfeces
R01HL-20262-02 Cardiac glycosides and the mechenism of the sodium-potassium pump
R01HL-20464-01 Regulation of cardiac and skeletel muscle contrection (mammels)
** P01HL-20592-02 0003 Cell bielogy of cardiac and skeletel muscle - Celluler magnesium and enien ectivities in ion-specific microelectrodes (frogs)
P01HL-20592-02 0012 Cell biology of cerdiec and skeletal muscle - Contractile properties of skinned muscle fibers (frogs)
R01HL-21030-01 Celcium regulatien and hypertension (rats)
R01HL-21922-01 Trensient currents induced by strophanthidin in the heart
R01HL-22039-02 Ion transpert in cardiac muscle (dogs, rodents, cattle)
R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
R01HL-22401-01 Regulation of tension and active state in the heart
R01HL-23392-01 Membrane binding and transport of calcium and potassium ionophores
R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)
R01HL-23994-01 Biochemical properties of human cardiac myosin

METALS, ALLOYS

P01HL-11414-11 0027 Thrombosis and etherosclerosis program - Thermel memory wire filter to prevent pulmonary embolism (human, dogs)
** R01HL-20554-02 Memory-alloy-filtars for venous emboli (dogs)

METALS, BORON COMPOUNDS, BORANES

R01HL-22040-01 Regulation of lysyl-cross-linking in vescular tissue (rats, turkeys)

METALS, DIVALENT METALS

P01HL-06314 17 0057 Immunologic mechenisms in cerdiovesculer disease Antigens in cardiovescular diseese (human)
R01HL-16474-05 Antibiotic ion interactions (medel membranes)
R01HL-16746-04 Oesign of ion-selective molecules
P01HL-17430-05 0005 Control ef coaguletion The ectivation of prothrombin (human, cattle, degs)
R01HL-20544-02 Integreted reguletion of myocerdial energy metebolism (rets, guinee pigs)

METALS, HEAVY METALS

SEE ALSO CHEMICAL REACTIONS, SUBSTITUTION, ISOMORPHOUS
SEE ALSO IRON
SEE ALSO METALS, RARE EARTHS
SEE ALSO RAOIOISOTOPES, TECHNETIUM
R01HL-12528-10 NMR relaxation of liquid crystal systems

METALS, HEAVY METALS, CADMIUM

P01HL-08974-14 0005 Netural and experimental atherosclerosis - Atherosclerosis, corenery heert diseese and sudden deeth (humen)
R01HL-14913-06 Hypertensien--Genetic influence of kidney (rets)
** R01HL-16674-05 Airborne metels end lung permeebility (bullfrogs, rets)
P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhumen primetes - Effects of cigerette smoking on atherosclerosis (beboon)
R01HL-19668-03 Biochemistry ef lung connective tissue (rats)
P01HL-19717-02 0008 Response of the lung to injury - Experimental models of lung diseese
P01HL-20994-02 0003 Oynamics of neutrophil elestese in the lung - Neutrophil elestese flux in medels of lung diseese (degs)
** R01HL-22603-01 Trece metels, vesculer ectivity and hypertension (rets)

METALS, HEAVY METALS, CHROMIUM

SEE ALSO RAOIOISOTOPES, CHROMIUM
R01HL-13412-17 Synthetic exygen carriers

METALS, HEAVY METALS, COBALT

SEE ALSO VITAMIN B12
** R01HL-12395-10 X-ray study of oxygen-carrying cobalt complexes
R01HL-13157-09 Meleculer oxygen carriers--Synthesis, structure, bonding
** R01HL-13412-17 Synthetic exygen carriers
R01HL-13531-06 Coboglobins--Cobalt substituted myo- and hemeglebins
R01HL-15640-06 Thermodynamic studies on model oxygen carriers
** R01HL-20996-02 Structurel and reectivity of iron and cobalt complexes
R01HL-21461-01 Heme group protein interactions in hemoproteins
R01HL-23736-04 Sickle cell anemia and hemoglobin synthesis (monkeys)

METALS, HEAVY METALS, COPPER

SEE ALSO METAL OISORDERS ANO IMBALANCES, HYPOCUPREMIA
SEE ALSO METALLOPROTEINS, CERULOPLASMIN
SEE ALSO METALLOPROTEINS, CYTOCUPREINS
SEE ALSO METALLOPROTEINS, HEMOCYANIN
R01HL-10503-13 Cardiec ion trenspert and ultrastructure (rets, guinea pigs, rebbits)
R01HL-11614-11 Trace elements in nutrition (chickens, rats, humen)
R01HL-13399-16 Heme protein structure and functien (humen, horse, plants, bacterie)
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
P60HL-16008-06 0015 Weyne State University comprehensive sickle cell center - Trace elements in sickle cell disease (human)
R01HL-16686-04 Properties of cytochrome oxidese (cettle, bacteria)
R01HL-18095-04 Human dopemine-beta-hydroxylese (elso cettle)
P01HL-18708-03 0010 Oxygen, energy and contractility in cerdiec tissue - Tissue oxygen utilization (rats, dogs)
R01HL-18712-03 Iron deficiency-hyperlipidemia in developmant (rats)
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
R01HL-20996-02 Structural and reactivity of iron and cobalt complexes
** R01HL-22446-01 Chemicel and functional studies of low copper in lung (pigs)

METALS, HEAVY METALS, LEAD

SEE ALSO METALS POISONING, LEAD POISONING
R01HL-16746-04 Oasign of lon-selective molecules
P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of cigarette smoking on atherosclerosis (beboon)

METALS, HEAVY METALS, MANGANESE

P01HL 11351 12 0013 Celluler end melecular mechenisms ol myocerdiel function Ien exchange in the perfused septum high-resolution technique (rabbits, rats)
P01HL-14985 07 0012 Adeptetion to hypoxia Oirect effect of hypexie on pulmonary vesculer smoeth muscle (rets, degs)
P01HL-15194-07 0004 Pethophysiology of cerdiopulmonery dysfunctien - Specielized electrophysielegy fibers--Electrogenic besis ef glycesides (memmels)
R01HL-16010-16 Celluler basis of cardiec contrectility (fregs)
R01HL-16135-05 Mechanisms of cerdiac euterhythmicity (dogs, bets)
R01HL-21461-01 Heme group protein interactions in hemoproteins

METALS, HEAVY METALS, MERCURY

SEE ALSO METALS POISONING, MERCURY POISONING
** R01HL-16674-05 Airberne metels end lung permeebility (bullfrogs, rats)
R01HL-16746-04 Oesign of ion-selective molecules
R01HL-19463-02 Pethephysiology of acute renal failure (rats)

METALS, HEAVY METALS, NICKEL

R01HL-21120-02 Membrene dynemics in alveeler mecropheges (rabbits)

METALS, HEAVY METALS, RUTHENIUM

R01HL-14127-16 Methemeglobinemia and antihypertensive drugs (cats, mice, rets)

METALS, HEAVY METALS, TANTALUM

P01HL-11310-12 0055 Mechenisms of cerdiovasculer disease - Ventricular pressure-volume after intracerdiec surgery (human)
** P50HL-19156-02 0003 Pulmonery SCOR--Chronic diseases of airweys - Powdered tantelum to study airway morphology end mucociliery cleerance (humen)

METALS, HEAVY METALS, ZINC

** N01HB-72916-02 Crisis and pain symptem prophylexis by oral zinc therapy (human)
P01HL-08974-14 0005 Netural and experimental atherosclerosis - Atherosclerosis, coronery heart disease and sudden death (human)
R01HL-11614-11 Trace elements in nutrition (chickens, rats, humen)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (humen, rodents)
P50HL-14214-07 0028 Newborn lung center for hyaline membrane disease - Relationship of trace metals to respiratory failure (dog, sheep, human)
** P60HL-16008-06 0014 Wayne Stete University comprehensive sickle cell center - Zinc and red blood cell metabolism in sickle cell anemie (rats, human)
** P60HL-16008-06 0015 Wayne State University comprehensive sickle cell center - Trace elements in sickla cell diseese (humen)
R01HL-16674-05 Airberne metals and lung permeability (bullfrogs, rats)
P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopethies - Celcium-indiced membrane demage in Hb SS disease (human, enimals)
R01HL-18712-03 Iron deficiency-hyperlipidemia in development (rats)
R01HL-18737-03 Humen erythrocyte membrene structure
R01HL-18905-04 Acquisition of netive conformation of proteins (humen, cattle)
** R01HL-19132-04 Role of zinc transferrin in lymphocyte transformatien (human)
P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of cigarette smoking on etherosclerosis (baboon)
** R01HL-19633-02 Pethogenesis end pharmacelogy of lung fibrosis (rats, rabbits)
R01HL-19720-03 Evaluetion of anti-fibrotic agents in pulmonary fibrosis (rats)
R01HL-21120-02 Membrane dynamics in elveoler macrophages (rabbits)
R01HL-22446-01 Chemical and functional studies of low copper in lung (pigs)

METALS, METALLOIDS, SELENIUM

R01HL-13619-09 Microsemal electron transport in liver and heart (human, memmels)
R01HL-16330-06 Aging-tissue injury and repair (rats)
R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)

METALS, RARE EARTHS

R01HL-14508-10 Structure and function of respiratory hemoproteins
R01HL-18834-04 Metal-dependent complex formation in blood coegulation (human, cattle)
R01HL-19282-03 Regulation of the activation of human factor X
R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)
N01HV-72931-02 Non-invasive detection of atherosclerotic lesions (human, dogs)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for Investigeter's neme end grant number.

METALS, RARE EARTHS, LANTHANUM
P01HL-11351-12 0011 Cellular and molecular mechanisms of myocardial function - Comparative contractile tissue studies (animals)
P01HL-11351-12 0013 Cellular and molecular mechanisms of myocardial function - Ion exchange in the perfused septum high-resolution technique (rabbits, rats)
P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)

METALS POISONING
SEE ALSO METAL COMPLEXES, LIGANDS, CHELATING AGENTS
** P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)

METALS POISONING, BERYLLIOSIS
** P50HL-14212-07 0013 Correlated studies of pulmonary fibrosis - Mechanism of beryllium pathogenicity in the lung (human, rabbit, guinea pig)
P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic

METALS POISONING, LEAD POISONING
R01HL-18163-04 Red cell membrane effects due to oxidizing agents
R01HL-21817-01 Catecholamines, blood pressure and circulation

METALS POISONING, MERCURY POISONING
R01HL-17781-03 Hypertension, kidney disease and renal lymph (dogs, rats)
R01HL-19668-03 Biochemistry of lung connective tissue (rats)

METANEPHRINE
SEE PHENYLALKYLAMINES, CATECHOLAMINES, METANEPHRINE

METAPLASIA
SEE GROWTH ABNORMAL, METAPLASIA

METASTASIS
SEE NEOPLASTIC GROWTH, NEOPLASMS METASTASIS

METEOROLOGY
SEE ENVIRONMENT, ATMOSPHERE (WEATHER)

METHACHOLINE
SEE CHOLINE, METHACHOLINE

METHACRYLATES
SEE PLASTICS, ACRYLIC POLYMERS, METHACRYLATES

METHANE
SEE ALKANES, METHANE

METHANOL
SEE ALCOHOLS, METHANOL

METHEMOGLOBIN
SEE HEMOPROTEINS, HEMOGLOBIN, METHEMOGLOBIN

METHEMOGLOBINEMIA
SEE HEMOPROTEINS, METHEMOGLOBINEMIA

METHIONINE
SEE SULFUR AMINO ACIDS, METHIONINE

METHODOLOGY, ANALYTICAL CHEMISTRY
SEE CHEMISTRY, ANALYTICAL METHODS*

METHOPYRAPONE
SEE PYRIDINES, METYRAPONE

METHOTREXATE
SEE FOLIC ACID ANTAGONISTS, METHOTREXATE

METHOXAMINE
SEE PHENYLALKYLAMINES, METHOXAMINE

METHOXYFLURANE
SEE HALOETHERS, METHOXYFLURANE

METHOXYINDOLES
SEE BENZOPYRROLES, METHOXYINDOLES

METHYLATED RNA
SEE NUCLEIC ACIDS, METHYLATED RNA

METHYLATION
SEE ALKYL (GROUPS), METHYLATION

3-METHYLBUTYL NITRITE
SEE NITRITES, AMYL NITRITE

METHYLCHOLANTHRENE
SEE CYCLICS, CARBOPOLYCYCLICS, METHYLCHOLANTHRENE

ALPHA-METHYL DOPA
SEE CYCLIC AMINO ACIDS, DOPA, ALPHA-METHYL DOPA

1,2-METHYLENEDIOXYBENZENES
SEE 1,3-BENZODIOXOLES

1,2-METHYLENEDIOXYPHENYL COMPOUNDS
SEE 1,3-BENZODIOXOLES

O-METHYL GLUCOSE
SEE HEXOSES, GLUCOSE, O-METHYL GLUCOSE

O-METHYL INDOLES
SEE BENZOPYRROLES, METHOXYINDOLES

METHYLMALONYL-COA SYNTHETASE
SEE CARBON-CARBON LIGASES, PROPIONYL COA CARBOXYLASE (ATP-HYDROLYZING)

N-METHYLNICOTINAMIDE
SEE PYRIDINAMIDES, NICOTINAMIDE, N-METHYL-

METHYLPREDNISOLONE
SEE ADRENAL CORTEX HORMONES ANALOGS, METHYLPREDNISOLONE

METHYLSULFOXIDE
SEE SULFOXIDES, DIMETHYL SULFOXIDE

N-METHYL TRANSFERASES
SEE TRANSMETHYLASES, N-METHYL TRANSFERASES

METHYSERGIDE
SEE ALKALOIDS, ERGOT, METHYSERGIDE

METOPYRONE
SEE PYRIDINES, METYRAPONE

METYRAPONE
SEE PYRIDINES, METYRAPONE

MEVALONATE:NADP OXIDOREDUCTASE
SEE OXIDOREDUCTASES, HMG-COENZYME A REDUCTASE

MEVALONIC ACID
SEE FATTY ACIDS, MEVALONIC ACID

MEXICAN-AMERICANS
SEE SOCIAL GROUPS, ETHNIC, AMERICANS, MEXICAN-AMERICANS

MICE (LABORATORY)
SEE MAMMALS, RODENTS, MYOMORPHA, MICE (LABORATORY)*

MICELLE FORMATION (CHEMISTRY)
SEE CHEMICAL AGGREGATES, MICELLE FORMATION

MICROANGIOGRAPHY
SEE CARDIOVASCULAR VISUALIZATION, MICROANGIOGRAPHY*

MICROBACTERIUM MULTIFORME
SEE CHLAMYDIA, PSITTACOSIS AGENT

MICROBIAL ANTITOXINS
SEE IMMUNOLOGY, ANTITOXINS

MICROBIAL CHEMISTRY STUDY SECTION
** R01HL-22981-17 Membrane-associated functions in microorganisms (bacteria, protozoa)

MICROBIAL CULTURE
SEE GROWTH MICROORGANISMS, MICROBIAL CULTURE

MICROBIAL DISEASES (GENERAL)
SEE COMMUNICABLE DISEASES (GENERAL)

MICROBIAL GENETICS
SEE GENETICS, MICROBIAL

MICROBIAL IDENTIFICATION AND CLASSIFICATION (TECHNIQUES)
** P50HL-15389-07 0019 Pulmonary SCOR--Hypersensitivity pneumonitis - Microbiology core (human, animal)
P50HL-19171-02 0001 Pulmonary SCOR--Lung injury by childhood infections - Longitudinal study--Respiratory infections and lung growth in normal children
** P50HL-19171-02 0012 Pulmonary SCOR--Lung injury by childhood infections - Laboratory support core
P50HL-19362-02 0009 A/S SCOR--Atherosclerosis in nonhuman primates - Cholesterol metabolism and intestinal microflora (baboon)
** P60HL-23282-01 0004 Comprehensive hospital/community sickle cell center - Bacterial, viral and mycoplasmal infections and sickle cell disease complications

MICROBIAL IDENTIFICATION AND CLASSIFICATION, SEROTYPING
SEE ALSO IMMUNITY, CROSS IMMUNITY
R01HL-20314-02 Host defense against S pneumoniae in sickle cell disease (human)

MICROBIAL IDENTIFICATION AND CLASSIFICATION, VIRAL TYPING AND IDENTIFICATION
P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of arenavirus and Bunyamweraviruses
P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLD
P50HL-15389-07 0019 Pulmonary SCOR--Hypersensitivity pneumonitis - Microbiology core (human, animal)
R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)
P50HL-19157-02 0011 Studies in cystic fibrosis and bronchiolitis - Pathogenesis of bronchiolitis (children)
P60HL-23282-01 0004 Comprehensive hospital/community sickle cell center - Bacterial, viral and mycoplasmal infections and sickle cell disease complications

MICROBIAL IMMUNOLOGY
SEE IMMUNOLOGY, MICROBIAL

MICROBIAL ORAL FLORA
SEE ALSO BACTERIA, MICROCOCCACEAE, STAPHYLOCOCCUS*
SEE ALSO BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS*
R01HL-20963-01 Experimental lung abscess (rabbits)

MICROBIAL RESISTANCE TO DRUGS
SEE DRUGS RESISTANCE, MICROBIAL

MICROCIRCULATION
SEE CARDIOVASCULAR SYSTEM, MICROCIRCULATION

MICROELECTRODES
SEE ELECTRODES, MICROELECTRODES*

MICROFILAMENTS
SEE CELL COMPONENTS, MICROFILAMENTS

MICROINJECTIONS
SEE DOSAGE AND ROUTE, INJECTIONS, MICROINJECTIONS

MICROORGANISMS
SEE ALSO CHLAMYDIA
SEE ALSO FUNGI*
SEE ALSO GENETICS, MICROBIAL
SEE ALSO MICROBIAL ORAL FLORA
SEE ALSO VIRUSES
** P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)
** P01HL-08214-15 0048 Chemical and biological properties of lipids - Lipids in microorganisms and plants
** R01HL-22981-17 Membrane-associated functions in microorganisms (bacteria, protozoa)

MICROORGANISMS, AEROBES
SEE ALSO BACTERIA, HALOBACTERIACEAE*
SEE ALSO BACTERIA, STREPTOCOCCACEAE*
R01HL-20963-01 Experimental lung abscess (rabbits)

MICROORGANISMS, ANAEROBES
P50HL-19362-02 0009 A/S SCOR--Atherosclerosis in nonhuman primates - Cholesterol metabolism and intestinal microflora (baboon)
R01HL-20963-01 Experimental lung abscess (rabbits)

MICROORGANISMS VIRULENCE
SEE ALSO BACTERIAL DISEASES, CYTOPATHOGENIC EFFECT BACTERIAL
SEE ALSO DRUGS RESISTANCE, MICROBIAL
SEE ALSO VIRUS DISEASE CHARACTERISTICS, CYTOPATHOGENIC EFFECT VIRAL
R01HL-19381-03 Pathogenesis of viral induced atherosclerosis (human, chicken)

MICROPHONE, PROBE TUBE
SEE RESPIRATORY DISORDERS DIAGNOSIS, RESPIRATORY AIRFLOW MEASUREMENTS*

MICROPUNCTURE
SEE DIAGNOSTIC TESTS, BIOPSY, MICROPUNCTURE*

MICRORADIOGRAPHY
SEE RADIOGRAPHY, MICRORADIOGRAPHY*

MICROSCOPY (GENERAL)
SEE OPTICS, MICROSCOPY (GENERAL)*

MICROSOMES
SEE CELL COMPONENTS, MICROSOMES

MICROTUBULES
SEE CELL COMPONENTS, MICROTUBULES (GENERAL)

MICROWAVE HEATING
SEE TEMPERATURE, HEAT, MICROWAVE HEATING

MICROWAVE RADIATION
SEE RADIATION, ELECTROMAGNETIC WAVES, MICROWAVE RADIATION

MICROWAVE THERMOGRAPHY
SEE TEMPERATURE MEASUREMENT, THERMOGRAPHY*

MIDBRAIN
SEE BRAIN, MESENCEPHALON

MIDCHILDHOOD
SEE CHILDREN, MIDCHILDHOOD (6 TO 12 YRS)

MIDDLE AGE
SEE AGE (HUMAN), ADULT, MIDDLE AGE (45 TO 64 YRS)

MIDDLE EAR DISORDERS
SEE EAR DISORDERS, MIDDLE EAR DISORDERS

MIF (LYMPHOKINES)
SEE HYPERSENSITIVITY, LYMPHOKINES, MIGRATION INHIBITORY FACTOR

MIGRANTS
SEE SOCIOENVIRONMENT, RESIDENTIAL MOBILITY, MIGRANTS

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

MIGRANTS (SOCIOLOGY)
SEE SOCIOENVIRONMENT, RESIDENTIAL MOBILITY, MIGRANTS

MIGRATION, CELL
SEE CELL MIGRATION

MIGRATION INHIBITORY FACTOR
SEE HYPERSENSITIVITY, LYMPHOKINES, MIGRATION INHIBITORY FACTOR

MILK
SEE BODY FLUIDS, MILK

MILLIPORE-DOHP MEMBRANE
SEE BIOLOGICAL TRANSPORT, MEMBRANE MODELS

MIND CONTROL
SEE PSYCHOLOGY, BRAIN CONTROL

MINERAL BALANCE - METABOLISM
SEE CALCIUM (MINERAL) BALANCE (METABOLISM)

MINERALIZATION INHIBITORS
SEE CALCIFICATION INHIBITORS (CALCIUM NEGATIVE BALANCE DRUGS)

MINERALOCORTICOIDS
SEE ADRENAL CORTEX HORMONES, MINERALOCORTICOIDS

MINERALS
SEE CHEMICALS (GENERAL), MINERALS (GENERAL)

MINERALS IN THE DIET
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY TRACE ELEMENTS AND MINERALS

MINIATURE SWINE
SEE MAMMALS, ARTIODACTYLA, SWINE, MINIATURE SWINE*

MINING
SEE OCCUPATIONS, INDUSTRY, MINING

MINORITY GROUPS
SEE SOCIAL GROUPS, MINORITY GROUPS

MINOXIDIL
SEE PYRIMIDINES, MINOXIDIL

MIST TENT THERAPY, RESPIRATORY DISORDERS
SEE RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, AEROSOL THERAPY

MITOCHONDRIA
SEE CELL COMPONENTS, MITOCHONDRIA

MITOCHONDRIAL DNA (INHERITANCE)
SEE NUCLEIC ACIDS, MT DNA

MITOCHONDRIAL MEMBRANE
SEE CELL COMPONENTS, MITOCHONDRIAL MEMBRANE

MITOGENIC FACTORS, PLANT
SEE PLANTS PROTEINS, LECTINS

MITOGENS
SEE ALSO PLANTS PROTEINS, LECTINS
P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changes in lymphocytes (human, mice)
P01HL-06314-17 0053 Immunologic mechanisms in cardiovascular disease - Cellular functions controlled by cyclic GMP (human, mice, guinea pigs)
** P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease - Mitogenic and antigenic activation of lymphocyte sub-populations
R01HL-19819-03 Mitogen induced interstitial pneumonitis (rabbits)
R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)

MITOMYCIN
SEE ANTIBIOTICS, MITOMYCIN C

MITOSIS
SEE CELL DIVISION, MITOSIS

MITRAL INSUFFICIENCY
SEE HEART DISORDERS, VALVULAR INSUFFICIENCY, MITRAL INSUFFICIENCY

MITRAL STENOSIS
SEE HEART DISORDERS, VALVULAR, MITRAL STENOSIS

MITRAL VALVE
SEE HEART, VALVES, MITRAL VALVE

MIXED CELL CULTURES
SEE TISSUE (CELL) CULTURE, MIXED CULTURES

MIXED FUNCTION OXIDASES
SEE OXYGENASES, MIXED FUNCTION (GENERAL)

MIXED LEUKOCYTE CULTURE (TEST)
SEE TISSUE COMPATIBILITY-TRANSPLANT, HISTOCOMPATIBILITY TYPING, MLC

MIYAGAWANELLA
SEE CHLAMYDIA

MK 185
SEE PHENOXYACETIC ACIDS, HALOFENATE

MLC TEST (MIXED LEUKOCYTE CULTURE)
SEE TISSUE COMPATIBILITY TRANSPLANT, HISTOCOMPATIBILITY TYPING, MLC

MLV (MOUSE LEUKEMIA VIRUSES)
SEE VIRUSES, ONCORNA, LEUKEMIA MOUSE

MNSS SYSTEM
SEE BLOOD GROUPS, MNSS SYSTEM

MOBILITY, RESIDENTIAL
SEE SOCIOENVIRONMENT, RESIDENTIAL MOBILITY

MODEL CHANNEL
SEE BIOLOGICAL TRANSPORT, MEMBRANE MODELS

MODELS (GENERAL)
SEE ALSO COMPUTER SIMULATION
SEE ALSO ENZYME MODELS
P01HL-06314-17 0052 Immunologic mechanisms in cardiovascular disease - Role of cyclic nucleotides in neutrophil function (human)
R01HL-11717-09 Effect of stenotic obstructions on flow in arteries (dogs)
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
M P01HL-15194-07 Pathophysiology of cardiopulmonary dysfunction
R01HL-17407-05 Peripheral circulation and fluid balance (fish, mammals, human)
R01HL-17821-03 Cavitation phenomena near prosthetic devices
P01HL-18576-03 0010 Thrombosis research program project - Evaluation of non-thrombogenic materials (cattle)
R01HL-18647-03 Ischemic myocardial injury in cultured heart cells (rats)
R01HL-19118-03 Measurement of airways mechanics (human, dog)
R01HL-20607-02 Tissue analysis by mass spectrometer (dogs)
R01HL-20829-02 Fluid mechanics of heart valve prostheses (dogs, human)
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
P01HL-20948-02 0003 Molecular basis of cholesterol metabolism - LDL pathway in vivo (human, rats, guinea pigs)
R01HL-21429-02 Transport of LDL in arterial wall (human, mammals)
R01HL-22338-01 Platelet adhesion and aggregation in a flow chamber (human)
R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
** N01HV-62957-05 Coordinating center model for NHLI clinical trials

MODELS, BIOLOGICAL
SEE ALSO BIOLOGICAL TRANSPORT, MEMBRANE MODELS
R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
R01HL-01803-23 0001 Arteriosclerosis, glomerulonephritis, rheumatic fever - Post-streptococcal glomerulonephritis (rabbit)
R01HL-01803-23 0005 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic and dietary synergy in the pathogenesis of atherosclerosis (rabbits)
R01HL-01803-23 0010 Arteriosclerosis, glomerulonephritis, rheumatic fever - Atherosclerosis induction--Graft rejection and hypercholesterolemia (rabbits)
R01HL-01803-23 0011 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
R01HL-01803-23 0015 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic endothelial injury and lipid diet atherosclerosis (rabbits, monkey)
R01HL-01803-23 0019 Arteriosclerosis, glomerulonephritis, rheumatic fever - Pathogenesis of rheumatic heart disease (rabbit)
R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
R01HL-03180-21 Relation of lymphatics to cardiopulmonary function (dogs)
R01HL-03181-21 0028 Hemodynamics as applied to surgical problems - Extra-renal factors in the hypertension of coarctation (dog)
R01HL-05209-18 Lipid metabolism (monkeys)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
P01HL-06285-18 0153 Cardiovascular-respiratory physiology and biochemistry - Myocardial mechanics and pharmacology in isolated papillary muscle (animals)
P01HL-06285-18 0200 Cardiovascular-respiratory physiology and biochemistry - Medullary counter-current system (animals)
P01HL-06285-18 0204 Cardiovascular-respiratory physiology and biochemistry - Lipoprotein lipase and triglyceride transport in chylomicrons (guinea pig, rat)
P01HL-06296-18 0007 Cardiovascular and pulmonary adaptation to stress - Cardiovascular control during isometric exercise (cats)
P01HL-06308-18 0038 Mechanisms and therapy of circulatory disease - Electrophysiology of ventricular arrhythmias associated with ischemia (dogs)
P01HL-06312-17 0016 Surgical cardiology - Effect of hydralazine on infarct size following coronary occlusion (human)
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)
P01HL-06314-17 0061 Immunologic mechanisms in cardiovascular disease - Role of viruses in cardiovascular and renal disease (human, mice)
P01HL-06370-17 0001 Cardiopulmonary and renal pathology research center - The humoral and cellular mechanisms of allograft rejection (monkeys)
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
P01HL-06664-17 0036 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)
P01HL-06835-17 0037 Cardiovascular disease - Cardiac hypertrophy in spontaneously hypertensive rat
P01HL-06835-17 0040 Cardiovascular disease - Benign and malignant phase of renal hypertension (dogs)
P01HL-06835-17 0059 Cardiovascular disease - Metyrapone-induced hypertension in dog
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
P01HL-07896-15 0008 Environmental biomedical research program - Otologic studies under hyperbaric conditions (human, animals)
P01HL-07896-15 0009 Environmental biomedical research program - Decompression sickness and computation of safe diving tables (human, animals)
P01HL-07896-15 0036 Environmental biomedical research program - Respiratory heat loss in deep diving (infants, dogs)
** P01HL-07896-15 0050 Environmental biomedical research program - Fundamental decompression concepts using the rat animal model
P01HL-08682-15 0021 Regulation of the cardiovascular system - Hypoglycemia in pathogenesis of shock (dog)
P01HL-08974-14 0024 Natural and experimental atherosclerosis - Atherosclerosis, sterol and lipoprotein metabolism in nonhuman primates
R01HL-09234-13 Amino acids of contractile proteins of failing hearts (dogs, hamsters)
R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
R01HL-09902-13 Comparative study of coagulation and vascular disease (animals)
P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
P01HL-11310-12 0078 Mechanisms of cardiovascular disease - Ventricular arrhythmias in acute myocardial infarction (dogs)
** P01HL-11414-11 0034 Thrombosis and atherosclerosis program - Servo simulation--Experimental myocardial infarction (dogs)
P01HL-11678-11 Cardiovascular dynamics and their control
P01HL-11678-11 0069 Cardiovascular dynamics and their control - Nervous control of the cirulation (dogs)
R01HL-11717-09 Effect of stenotic obstructions on flow in arteries (dogs)
R01HL-11876-11 Regional myocardial blood flow and metabolism (dogs, swine)
** R01HL-11901-12 0020 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass--Endogenous animal model of obesity (rats)
R01HL-12307-08 Non-surgical treatment of congenital heart disease (human, dogs)
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
R01HL-12614-09 Microcirculatory control mechanisms and hypertension (bats, rats)
R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
P01HL-12738-10 0044 Physiologic pharmacology and its clinical applications - Cardioactive drugs and electrophysiological properties of cardiac cells (sheep)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications

P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
P01HL-12738-10 0098 Physiologic pharmacology and its clinical applications - Skeletal muscle support of the chronically failing heart (dogs)
P01HL-12738-10 0110 Physiologic pharmacology and its clinical applications - Physiology and pharmacology of arrhythmias (dogs)
P01HL-12738-10 0123 Physiologic pharmacology and its clinical applications - Ventricular assistance and preservation (human, dogs)
P01HL-12738-10 0132 Physiologic pharmacology and its clinical applications - Coronary occlusions and arrhythmias (dogs)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
R01HL-13193-09 Pathophysiology of post-traumatic and shock states (rodents, dogs)
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
R01HL-13454-08 Behavioral stress and cardiomyopathy (monkeys, cats)
R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)
P01HL-13480-09 0026 Cardiac electrophysiology - Neural influences on cardiac electrophysiology and contraction (dog, cat)
P01HL-13480-09 0028 Cardiac electrophysiology - Stress electrocardiography (human, dogs)
R01HL-13639-07 Factors altering the course of myocardial dysfunction (cats)
** R01HL-13645-11 Tryptophan-induced pulmonary emphysema (cattle, goats, rabbits)
R01HL-13929-06 Single nephron response to chronic obstruction (frogs, rats)
R01HL-13936-06 Microvascular responses in hypertension (human, rats)
P50HL-14136-07 0001 Pulmonary SCOR--Airways obstructive diseases - Experimental airway obstructive disease (dogs)
P50HL-14138-05 0015 Center for research on atherosclerosis - Arterial wall--Intermediary metabolism, enzyme activity and bioenergetics
P50HL-14141-05 0003 SCOR for atherosclerosis in childhood - Detection of abnormalities in lipid metabolism (human, rabbits, rats)
P50HL-14159-08 0024 Specialized center of research in hypertension - Core resources (clinical, animal models)
M P50HL-14164-07 A/S SCOR--Comparative and experimental atherosclerosis
** P50HL-14164-07 0027 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (squirrel monkey)
** P50HL-14164-07 0028 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (African green monkey)
** P50HL-14164-07 0029 A/S SCOR--Comparative and experimental atherosclerosis - Development of pigeon substrains
** P50HL-14164-07 0030 A/S SCOR--Comparative and experimental atherosclerosis - Morphology, angiochemistry--Diet induced lesions in African green monkey
** P50HL-14164-07 0031 A/S SCOR--Comparative and experimental atherosclerosis - Changes in endothelial permeability associated with atherosclerosis (pigeon)
P50HL-14164-07 0032 A/S SCOR--Comparative and experimental atherosclerosis - Plasma cholesterol, lesion regression and vascular function (Rhesus monkey)
P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
P50HL-14212-07 0014 Correlated studies of pulmonary fibrosis - Pulmonary lavage cells, secretions in diffuse intersititial lung disease (human)
** P50HL-14214-07 0035 Newborn lung center for hyaline membrane disease - Core--Animal care facility
R01HL-14271-07 Physico-chemical properties of tracheal mucus (dogs, frogs)
** P01HL-14388-07 0195 Regulation of the circulation in pathological states - General review of potential pathophysiologic factors in spontaneous hypertension
P01HL-14388-07 0196 Regulation of the circulation in pathological states - Altered vascular responsiveness in spontaneous hypertension (rats)
P01HL-14388-07 0218 Regulation of the circulation in pathological states - Regional myocardial dyskinesis--Cause assessment and reduction (dogs)
P01HL-14414-07 0004 Environmental influences on cardiorespiratory and cellular functions - Role of diffusion in gas exchange (chicken egg)
P01HL-14414-07 9002 Environmental influences on cardiorespiratory and cellular functions - Core--Computer facility
R01HL-14526-07 Oral contraceptives and hypertension (rats)
R01HL-14545-06 Mechanics of compensatory ventricular hypertrophy (dogs)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
R01HL-14799-07 Cardiac heterotransplantation--Immunologic modification (mice, rat)
R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
R01HL-14913-06 Hypertension--Genetic influence of kidney (rats)
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
** P50HL-15061-07 0010 Response of lung to injury - An animal model system for the study of bronchiolitis and its sequellae (dogs)
P50HL-15062-07 0020 Study of lipoproteins, artery wall, and atherosclerosis - Artery wall reactions--Elevated pressure and hyperlipemia (monkey)
** P50HL-15092-07 0008 Immune and fibrotic response to occupational environments - Animal models of asbestosis (hamsters)
** P50HL-15103-07 0013 A/S SCOR--Early natural history of arteriosclerosis - Experimental models of atherosclerosis (monkeys)
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
** P60HL-15160-07 0011 Center for sickle cell disease - Study of human sickle cells in an animal model (rats)
P60HL-15162-07 0019 Comprehensive sickle cell center - RBC-Blood rheology in sickle cell anemia and related disorders (human, animal)
R01HL-15247-05 Extending the life of implanted pacemakers (dogs, human)
R01HL-15270-06 Local mechanical properties of the aortic tissue (dogs, pigs)
R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
** P50HL-15389-07 0011 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits
** P50HL-15389-07 0012 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Immunologic lung disease in guinea pigs
R01HL-15444-06 Neonatal development of adrenergic receptor mechanisms (pigs)
R01HL-15504-05 Animal model for studies on averting atherosclerosis (swine)
** R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)
R01HL-15520-06 Total blood replacement by fluorocarbons and polyols (rats)
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
R01HL-15607-06 Physiological control of splanchnic circulation (dogs)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
R01HL-15852-06 Vascular ion transport and hypertensive mechanisms
P60HL-15999-05 0019 Miami comprehensive sickle cell center - Fetal-adult hemoglobin switch (mouse, monkey)
P60HL-16008-06 0014 Wayne State University comprehensive sickle cell center - Zinc and red blood cell metabolism in sickle cell anemia (rats, human)
R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
P01HL-16118-06 0005 Study of emphysema - Mechanisms of elastase emphysema (mice)
P01HL-16118-06 0006 Study of emphysema - Metabolism of elastin (hamsters)
R01HL-16119-05 Spleen and marrow allografts in hereditary anemia (mice)
R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
R01HL-16233-05 Molecular cardiology of MDP-induced left ventricular failure (dogs)
R01HL-16292-05 0018 Surgery and non-obstructive coronary insufficiency - Unavoidable subendocardial perfusion caused by venting and hypothermia (dogs)
R01HL-16292-05 0019 Surgery and non-obstructive coronary insufficiency - Distortion of subendocardial vessels in infant hearts (dogs)
R01HL-16292-05 0020 Surgery and non-obstructive coronary insufficiency - Limitation of transthoracic ECG in detecting subendocardial ischemia (dogs)
P01HL-16387-04 0003 The blood vessel and thrombogenesis - Blood vessel healing (rabbits)
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
R01HL-16490-04 Structural basis of nephron filtration (rats, rabbits)
R01HL-16587-04 Cholesterol binding saponins and atherosclerosis (monkeys)
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-16706-04 Excitation-contraction coupling and heart failure (dogs, rabbits)
P01HL-16769-05 0003 Pathobiologic and host defense reactions in the lung - Pathobiologic mechanisms of delayed sensitivity reactions in the lung (animals)
P01HL-16878-05 0001 Control of ventilation in health and disease - Ability of asthmatics to detect added resistive and elastic loads
R01HL-16916-04 0002 The role of albumins in lung water accumulation - Lung water balance--Forces, models and albumin concentrations (rabbits, dogs)
R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
R01HL-17091-05 Anesthetics and microvascular response to hemorrhage (rats)
R01HL-17243-05 Cause of chronic experimental renal hypertension (dogs, rabbits)
P60HL-17269-04 0007 National heart and blood vessel research and demonstration center - Correlative studies of experimental myocardial ischemia (dog)
** P60HL-17269-04 0024 National heart and blood vessel research and demonstration center - Section of experimental cardiovascular surgery--Core facility
P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
R01HL-17335-05 Contractile properties of hypertensive arterioles (rats)
** R01HL-17352-03 Physiological regulation during chronic hyperthermia (sheep)
R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
R01HL-17369-04 Arterial bypass surgery--Structure and metabolism (monkeys)
R01HL-17370-03 Synaptic chemistry and cardioregulation in Limulus
R01HL-17404-05 Immunologic mechanisms in heart disease (mice)
P01HL-17419-04 0001 Studies on mechanisms of hemostasis - Structure and metabolism of fibrinogen (human)
P01HL-17421-05 0001 Regulation and exchange in the microcirculation - Mass transfer and microcirculatory function (rats)
P01HL-17430-05 0001 Control of coagulation - Porcine von Willebrand's disease
R01HL-17458-04 Renal control of sodium excretion (rats)
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)
R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
R01HL-17564-03 Unsaturated fats--Mode of hypocholesterolemic action (minipig)
R01HL-17581-03 Patent ductus arteriosus and pulmonary hypertension (dogs)
R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
** P50HL-17646-04 0004 Study of ischemic heart disease - Core experimental animal laboratories
** P50HL-17648-04 0021 Study of ischemic heart disease - Biventricular contractile responses to acute myocardial infarction (mammals)
P50HL-17651-04 0016 Ischemic heart disease specialized center of research - Retroperfusion of coronary venus circulation with therapeutic agents (dogs)
** P50HL-17682-04 0018 Study of ischemic heart disease - Biochemistry of ischemia--Heart cell and organ culture (mice, rats, cattle)
R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
R01HL-17781-03 Hypertension, kidney disease and renal lymph (dogs, rats)
R01HL-17809-04 Effects of exercise on the coronary vasculature (rat, dog)
R01HL-17847-04 Cardiovascular and renal functions of marmots
R01HL-17853-03 Peripheral circulation in heart failure (animals)
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-17871-04 0010 Kidney, sodium, cardiac output, arterioles and hypertonsion - Renal prosteglandins metabolism in hypertonsion (rats, dogs)
P01HL-17871-04 0013 Kidney, sodium, cardiac output, arterioles and hypertension - Perfusion pressure and renel sodium excretion (rats)
R01HL-17902-04 Mammelian renal microcirculation (hamstors)
R01HL-17907-04 Brain regulation ot cardiac arrhythmia (pigs, cets, rats)
R01HL-17944-03 Studies in lung preservation (dogs)
R01HL-17970-04 Vasculer ettects of inhibitory behavioral adaptations (dogs)
R01HL-18024-03 Regional myocardial tlow end tunction relationships (dogs)
R01HL-18027-03 New vasoactive factors and their role in hypertension (human, dogs, rats)
R01HL-18060-04 Exercise and coronary atherosclerotic heart disease (monkeys)
R01HL-18097-04 Pathogenesis of acute renal tailure (rats)
R01HL-18148-04 Adrenal catecholamine secretion
R01HL-18186-04 Cardiac allogratts in autologous radiation chimeras (rats, dogs)
* R01HL-18191-04 Models ot hypoxic pulmonary hypertension (cattle, minipigs)
R01HL-18308-03 Comprehensive studies ot mucociliary transport (dogs)
* P50HL-18318-03 0002 Pathogenesis and complications ot hypertension - Core experimental animal tacility (rats, rabbits)
P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal tunction in experimental hypertension (rats)
P50HL-18318-03 0014 Pathogenesis and complications of hypertension - Arterial metabolism and atherogenesis (rat, rabbit)
R01HL-18340-04 Electron microscopy ot the juxtaglomerular apparatus (rats)
R01HL-18398-04 Mechanisms ot delayed and asymetric ventricular conduction (human, dogs)
R01HL-18468-03 The distribution ot tlow in the myocardium (dog, pig)
R01HL-18492-03 Measurement of regional coronary flow reserve (human, dogs)
R01HL-18527-03 Subcellular response of heart to tunctional overload (hamsters, rats)
R01HL-18537-04 Regional blood tlow after acute myocardial injury (dogs)
P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
M P01HL-18575-03 Mechanisms of vascular changes in hypertension
P01HL-18575-03 0001 Mechanisms ot vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
** P01HL-18575-03 0010 Mechanisms of vascular changes in hypertension - Hypertensive pig Core
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
P01HL-18576-03 0009 Thrombosis research program project - Biology ot factor VII (human, rabbits, cattle)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
R01HL-18607-03 Metabolic and drug studies on experimental tat embolism (mice)
R01HL-18629-04 Influence of aging and hypertension on the myocardium (rats)
M P01HL-18645-03 Biology ot the artery wall and atherosclerosis
P01HL-18645-03 0001 Biology ot the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
** P01HL-18645-03 0006 Biology ot the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
P01HL-18645-03 0007 Biology ot the artery wall and atherosclerosis - Lipoprotein metabolism in subhuman primates
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection ot rejection (dogs)
P01HL-18708-03 0010 Dxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-18749-03 Ventricular mechanics in the overloaded heart (dogs)
R01HL-18798-04 0003 Nervous and ionic factors in sudden cardiac death - Left stellectomy in the prevention ot sudden death (dogs)
** R01HL-18831-03 Microscopy ot spontaneously hypertensive arterial lesion (rats)
R01HL-18848-03 Etiology and development ot congenital heart disease (dogs, cats)
R01HL-18875-03 Angiotension, prostaglandins, pressure and the kidney (rats)
R01HL-18936-02 Heart preservation and transplantation studies (rat)
R01HL-18938-03 Pulmonary tatty acid and phospholipid metabolism (rats)
R01HL-18952-03 Metabolism in perfused tetal and newborn rabbit lungs

** P01HL-18974-03 0006 Experimontal neurogenic hypertension program Model of sustained arterial hypertension (cats)
R01HL-18977-03 Non-invasive diagnosis ot peripheral arteriel disease (human, dogs)
R01HL-18997-02 Ischemic therapy in experimental hypersplenism (rats, dogs)
R01HL-19012-03 Smooth muscle ot resistance vessels in hypertension (rats)
R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
R01HL-19062-03 Pharmacologic control of mast cell phosphodiesterase (human, rats)
R01HL-19072-03 Moditication ot tissue injury in myocardial infarction (dogs, human)
R01HL-19091-02 Sustained increase in cardiac output (dogs)
R01HL-19109-03 Regression ot chronic atherosclerosis (rabbits)
P50HL-19153-02 0007 SCDR--Pulmonary edemas--Etiology, pathogenesis - Core--Experimental laboratories and support tacilities
P50HL-19157-02 0004 Studies in cystic fibrosis and bronchiolitis - Macromolecular regulators ot mucus secretion--Invertebrate model
P50HL-19160-02 0001 Mucus abnormality in cystic tibrosis - Regulation ot respiratory secretions (rat, human)
P50HL-19160-02 0002 Mucus abnormality in cystic tibrosis - Ultrastructure, cytochemistry ot pulmonary secretion (human, rat)
** P50HL-19171-02 0006 Pulmonary SCDR--Lung injury by childhood intections - Development ot model systems (bacteria, viruses, hamsters)
P50HL-19187-02 0013 Pediatric pulmonary SCDR--Hyaline membrane disease - Research resources core
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
R01HL-19204-03 Environmental factors in hypertension (Rhesus monkeys)
M R01HL-19225-02 Types and mechanims ot pulmonary hypertension
R01HL-19225-02 0001 Types and mechanims ot pulmonary hypertension - Structural changes (human, animals)
R01HL-19225-02 0002 Types and mechanims ot pulmonary hypertension - Effect of aorto-pulmonary shunt (pigs)
R01HL-19225-02 0003 Types and mechanims ot pulmonary hypertension - Cardiopulmonary function in pigs and rats
R01HL-19225-02 0004 Types and mechanims ot pulmonary hypertension - Structural changes in human pulmonary circulation (human, animals)
R01HL-19251-03 An index of sympathetic activity in hypertension (rats)
P01HL-19259-03 0004 Digoxin-specitic antibody in human therapy - Digitalis-specitic antibodies pharmacological studies (human, dogs, sheep)
R01HL-19287-03 The antihypertensive function ot the renal medulla (human, rats, rabbits)
M P50HL-19362-02 A/S SCOR--Atherosclerosis in nonhuman primates
** P50HL-19362-02 0004 A/S SCDR--Atherosclerosis in nonhuman primates - Selective breeding for characters related to atherosclerosis (baboons)
** P50HL-19362-02 0005 A/S SCOR--Atherosclerosis in nonhuman primates - Hybridization to produce primate model ot atherosclerosis (baboon, Rhesus)
P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects ot cigarette smoking on atherosclerosis (baboon)
P50HL-19362-02 0016 A/S SCDR--Atherosclerosis in nonhuman primates - Core laboratory--Animal services (baboon)
R01HL-19374-03 Pharmacology ot kinins in cardiovascular disease (rats, rabbits)
R01HL-19398-03 Regional conduction abnormalities and arrhythmias (dogs)
R01HL-19425-03 Cardiac tunction in hypertrophy (dog)
R01HL-19461-03 Myocardial energetics in hypertrophy and heart tailure (rabbits)
R01HL-19467-03 Regulation ot blood pressure (rats, dogs)
R01HL-19486-03 Dipole moment measurement ot cardiac mass (rabbits, pigs)
R01HL-19538-03 Synthesis of potential antihypertensive agents
R01HL-19539-03 Pathology of hypertensive-associated arteritis (rabbits)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
R01HL-19648-03 Myocardial protein degradation (dogs, rabbits)
R01HL-19673-03 Surgical aspects ot shock and hypoxia (dogs, monkeys, rats)
M P01HL-19717-02 Response ot the lung to injury
P01HL-19717-02 0003 Response ot the lung to injury - The role ot elastolysis in emphysema (hamsters, rabbits)
P01HL-19717-02 0005 Response ot the lung to injury - Studies on proteolysis and lung disease (human, animals)
P01HL-19717-02 0006 Response ot the lung to injury - Glycosaminoglycans and proteoglycans ot the lung (human, rats, hamsters)

** P01HL-19717-02 0008 Response ot the lung to injury Experimontal models of lung disoase
** P01HL-19717-02 0010 Response ot the lung to injury Proteoglycans in lung function and structure (hamsters)
** P01HL-19717-02 0011 Response ot the lung to injury Physiological charecterization of the elastaso modol (hamsters)
P01HL-19717-02 0012 Response ot the lung to injury Connective tissue biochemistry and enzyme injury ot the lung (hamsters)
P01HL-19717-02 0013 Response ot the lung to injury Handling of biologically active substances by the diseased lung (guinea pigs)
P01HL-19717-02 0014 Response of the lung to injury Stereology of epithelialized bronchi in evolving elastase emphysema (hamsters)
P01HL-19717-02 0015 Response of the lung to injury - Chronic bronchitis and emphysema (hamsters)
P01HL-19717-02 0016 Response of the lung to injury - The alveolar macrophage in elastase emphysema (guinea pigs, hamsters)
** P01HL-19717-02 0019 Response ot the lung to injury - Animal model of fibrosing alveolitis (hamsters, guinea pigs, rabbits)
** P01HL-19717-02 0020 Response of the lung to injury - Recording of lung sounds in animal models of disease (animals)
** P01HL-19717-02 0021 Response of the lung to injury - Gallium lung scans in fibrosing alveolitis (hamsters)
P01HL-19717-02 0022 Response ot the lung to injury - Localization ot enzymes and sites ot action in experimental emphysema (hamsters)
P01HL-19717-02 0026 Response ot the lung to injury - Protein depletion and postnatal lung development (rats)
P01HL-19717-02 0028 Response ot the lung to injury - Compensatory growth ot the lung following pneumonectomy (rabbits)
P01HL-19717-02 0037 Response ot the lung to injury - Catecholamines, prostaglandins and nucleotides in pulmonary function (animals)
P01HL-19717-02 0039 Response ot the lung to injury - Lung scanning in alveolitis and asbestolic interstitial pneumonia (human, animal)
P01HL-19717-02 0044 Response ot the lung to injury - Lung sound analysis (human)
P01HL-19717-02 0045 Response ot the lung to injury - Ultrasound studies (human, hamsters)
R01HL-19741-03 Murine CRD--A model ot chronic pulmonary intlammation (mice, rats)
R01HL-19760-01 Cellular immune responses of the lung (mice, guinea pigs)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-19825-02 Renin-volume interactions in coarctation hypertension (dogs)
R01HL-19873-03 Pulmonary responses to inhaled antigen (rabbits, guinea pigs)
R01HL-19937-02 Vasodilators in experimental myocardial infarction (dogs)
R01HL-20080-02 Surgically induced myocardial edema (dogs)
R01HL-20087-02 Developmental processes in pulmonary hypertension (rats)
R01HL-20163-02 Competitive coronary tlow in native and graft vessels (dog)
R01HL-20170-02 Pulmonary intection in splenectomized animals (mice)
R01HL-20183-02 Portacaval shunt as treatment for hyperlipemia (pigs)
R01HL-20197-02 Maintenance and repair ot vascular endothelium (human, animals)
R01HL-20199-02 Drug-induced alterations in intarct size in the rat
R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
R01HL-20226-02 Cardiac bypass and coronary collateral physiology (dogs)
R01HL-20254-02 Probes ot heart and nerve membranes--Fluorescent dyes
R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
R01HL-20400-03 Diabetic neuropathy and peripheral vascular diseases (human, hamsters)
R01HL-20426-03 Myocardial tunction in diabetes mellitus (dog, rat)
M P01HL-20552-02 The development and regression ot cardiac hypertrophy
P01HL-20552-02 9001 The development and regression ot cardiac hypertrophy - Core A--Pathology
M R01HL-20572-02 Hemodynamic relations to metabolism in hypertension
R01HL-20572-02 0001 Hemodynamic relations to metabolism in hypertension - Hemodynamic and myocardial tunctional studies in the SHR (rat)
R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood tlow in hypertension (rats)
P01HL-20592-02 0010 Cell biology of cardiac and skeletal muscle - Mitochondrial genesis during myocardial cell hypertrophy and hyperplasia (rats)
R01HL-20604-03 Sympathectomy--Cardiovascular and molecular pharmacology (animals)

(contd)

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R01HL-20610-02 Nerve growth factor and obstructive cardiomyopathy (dogs)
R01HL-20612-02 Chronic animal model of pulmonary vascular injury (dogs)
R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)
R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
R01HL-20690-02 Pulmonary hemodynamics in lung edema during PEEP (dogs)
R01HL-20719-02 Cold induced pulmonary hypertension (cattle)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-20768-02 Mechanisms of circulatory regulation in heart failure (guinea pigs)
R01HL-20815-02 Validation of indirect tests of small airways function (human, dogs, ponies)
R01HL-20827-02 Effects of hypertrophy on the coronary circulation (dogs)
R01HL-20829-02 Fluid mechanics of heart valve prostheses (dogs, human)
R01HL-20847-02 Respiratory neurochemical control (human, goats)
R01HL-20859-02 Beta adrenergic catecholamine receptor
R01HL-20895-03 0006 Cineangiographic studies of cardiovascular system - Cardiomyopathy--Hemodynamic, radiologic, morphologic abnormalities (dog, rabbit)
R01HL-20895-03 0007 Cineangiographic studies of cardiovascular system - Determinants of collateral formation (dogs, hamsters)
R01HL-20895-03 0008 Cineangiographic studies of cardiovascular system - Intercoronary anastomotic circulation--Stenosis and occlusion (dogs)
R01HL-20895-03 0010 Cineangiographic studies of cardiovascular system - Cortical necrosis and acute renal failure (human, dogs, rats, rabbits)
R01HL-20912-02 Control on non-alpha chain synthesis in thassemic mice
P01HL-20948-02 0003 Molecular basis of cholesterol metabolism - LDL pathway in vivo (human, rats, guinea pigs)
R01HL-20954-02 Hyperlipoproteinemia (rats, human)
R01HL-20956-02 Early events following stimulation of human platelets
R01HL-20963-01 Experimental lung abscess (rabbits)
M P01HL-20984-02 Cellular mechanisms in cardiac hypertrophy
P01HL-20984-02 0001 Cellular mechanisms in cardiac hypertrophy - Contractile proteins in cardiac hypertrophy (rabbits, calves)
P01HL-20984-02 0004 Cellular mechanisms in cardiac hypertrophy - Myofibril accumulation in cardiac and vascular muscle cells in hypertrophy
P01HL-20984-02 0006 Cellular mechanisms in cardiac hypertrophy - Early biochemical aspects of cardiac hypertrophy (rats)
** P01HL-20984-02 9001 Cellular mechanisms in cardiac hypertrophy - Animal models and preparation of contractile proteins
M P01HL-20993-02 Population dynamics of arterial cells in atherogenesis
P01HL-20993-02 0001 Population dynamics of arterial cells in atherogenesis - Arterial SMC population dynamics in atherogenesis (swine)
P01HL-20993-02 0002 Population dynamics of arterial cells in atherogenesis - Arterial endothelial dynamics in atherogenesis (swine)
P01HL-20993-02 0003 Population dynamics of arterial cells in atherogenesis - Clonal phenomena in atherogenesis (human, hares)
P01HL-20993-02 0004 Population dynamics of arterial cells in atherogenesis - Modifications of cholesterol balance related to arterial cell divisions (swine)
P01HL-20993-02 0005 Population dynamics of arterial cells in atherogenesis - Drugs other than hypolipidemic drugs affecting atherosclerosis (swine, rabbits)
P01HL-20993-02 0006 Population dynamics of arterial cells in atherogenesis - Mechanism of regression of atherosclerosis by diet and injury (swine)
P01HL-20993-02 0008 Population dynamics of arterial cells in atherogenesis - Angiotoxicity of cholesterol oxidation in atherogenesis (rabbits)
** P01HL-20993-02 0010 Population dynamics of arterial cells in atherogenesis - Animal care and development and standardization of animal models--Core
M P01HL-20994-02 Dynamics of neutrophil elastase in the lung
P01HL-20994-02 0001 Dynamics of neutrophil elastase in the lung - Dynamics of neutrophil elastase in normal animals (dogs, rabbits)
** P01HL-20994-02 0003 Dynamics of neutrophil elastase in the lung - Neutrophil elastase flux in models of lung disease (dogs)
P01HL-20994-02 0005 Dynamics of neutrophil elastase in the lung - Protease inhibitors in pulmonary inflammation and emphysema (rabbits)
P01HL-20994-02 0007 Dynamics of neutrophil elastase in the lung - The etiology of experimental emphysema (dogs)
P01HL-20994-02 0008 Dynamics of neutrophil elastase in the lung - Structure-function correlation in experimental emphysema (human, dogs)
P01HL-20994-02 0009 Dynamics of neutrophil elastase in the lung - Biosynthesis and degradation of elastin in emphysema (human, hamsters)
R01HL-21008-02 Effect of pollutants on organotypic lung cultures (rats)
R23HL-21051-02 Adrenergic receptors and the adenylate cyclase system (frog RBC)
R01HL-21071-02 Mechanisms of hypertension in coarctation of the aorta (dog)
R01HL-21076-02 Lung fluid, protein exchange after hemorrhagic shock (sheep)
R01HL-21099-02 Subcellular changes of blood vessels in hypertension (rats)
R01HL-21103-01 Parametric mechanical studies of hypertensive arteries (dogs, rats)
R01HL-21105-02 Organ specific drugs--Cardiovascular and renal effects (dogs)
R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)
R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
R23HL-21167-02 The electrophysiology of cardiac hypertrophy (rats)
** R01HL-21176-02 Phospholipid exchange proteins in lung tissue (lambs)
R23HL-21203-02 Effect of vasoactive agents on left-to-right shunts (lambs)
R23HL-21213-01 A model for calcium homeostasis in excitable tissue (marine worms)
R23HL-21234-02 The regulation of cardiac hypertrophy (rabbits)
R01HL-21257-02 Breathing in sleep--Airway control and blood gases (cats)
R01HL-21260-02 Risk factor relationships of atherosclerosis (monkeys)
R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
R23HL-21327-02 Molecular mechanisms of chemical myocardiopathies (rats)
R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
R01HL-21416-02 Atherosclerosis in new modles of diabetes mellitus
R01HL-21418-02 Experimental myocardial infarction (rats)
R01HL-21500-02 Performance of respiratory muscles under stress (dogs)
P01HL-21584-02 0004 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on respiratory mechanics (dogs)
R01HL-21592-01 Lipoproteins and coagulation factors in atherosclerosis (pigeons)
R01HL-21632-02 Development of a transcutaneous power transfer system (cattle)
R23HL-21663-01 Regulation of collagen biosynthesis (chick, embryo)
R01HL-21697-01 Myocardium infarct sizing by 82Rb emission tomography (dogs, human)
R01HL-21735-01 Electrophysiology after healed myocardial infarction (cats)
R01HL-21751-02 0001 Thallium and antimyosin in ischemia and infarction - In vitro models of ischemia and infarction (rats, mice)
R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
R01HL-21779-01 Steroids in adrenal regeneration hypertension (rats)
R01HL-21796-01 Applied pulsatile hemodynamics in vascular surgery (dogs)
R01HL-21820-01 Regulatory role of myosin in cardiac hypertrophy (dogs)
R01HL-21829-01 Etiology of obstructive airway disease in children (also monkeys)
R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
R01HL-21912-01 Biosynthesis of lipoic acid and atherosclerosis (birds, chick embryos)
R23HL-21918-01 Hypersensitivity pneumonitis in guinea pigs
R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)
R23HL-21997-01 Pulmonary immunopathology in the compromised host (guinea pigs)
R01HL-22005-01 Intermittent retroperfusion of ischemic myocardium (dogs)
R01HL-22008-01 Left ventrivular calcium content and contractility (rats)
R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
R01HL-22069-02 Experimental renal arterial hypertension (dogs)
R01HL-22098-01 Is postoperative infarction due to reperfusion injury? (human, dogs)
R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
R01HL-22178-01 Lung airway properties by acoustic impulse reflection
R01HL-22216-02 Vascular mechanisms in renal hypertension (dogs)
R01HL-22274-01 Quantitating in series effects in cardiac arrhythmias (dogs)
** R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)
R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
R01HL-22327-01 Transport of arterial blood gases through skin (swine)
R01HL-22367-01 Estrogen receptors in very low density lipoproteins (chicken livers)
R01HL-22411-01 Neuroendocrine involvement in hypertension (rats)
R23HL-22438-01 The etiology of genetic hypertension (rats)
R01HL-22446-01 Chemical and functional studies of low copper in lung (pigs)
R23HL-22448-01 Modulation of heart graft antigenicity by perfusion (rats)
R01HL-22470-01 Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice)
R01HL-22546-02 Baroreceptor reflex mechanisms in man
R01HL-22550-02 Genetic cardiomyopathies in salamanders and hamsters
R01HL-22562-02 Mechanism of cardiac action potential propagation (tunicates)
R01HL-22563-02 Prostaglandins, the kidney and hypertension (rats)
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
P01HL-22602-01 0004 Pathophysiology of the endothelium - Endothelium, platelets smooth muscle and atherosclerosis (rabbits)
** P01HL-22619-01 9001 Cellular mechanisms of heart failure - Experimental pathological models core
R01HL-22661-01 Chronic total cardiopulhonary mechanical substitution (sheep)
R01HL-22664-01 Regulation of myocardial cell growth (rats, guinea pigs)
R01HL-22671-01 Removal of senescent and stored human red cells
R01HL-22676-01 Pathogenesis in experimental interstitial pneumonitis (rabbits)
R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)
** R01HL-22767-01 Model system for cardiac action potentials (squid, axons)
R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)
R01HL-22783-01 Hemodynamic induction of intimal fibromuscular lesion
R01HL-22784-01 Ductus arteriosus closure--An arterial lesion model (rabbits)
R01HL-22801-01 Analysis of coronary artery behavior (dogs)
** R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R01HL-22894-01 Two dimensional ultrasound and cardiac surgery (human, dogs)
R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
R01HL-23171-01 Coronary collateral circulation in myocardial ischemia (dog, pig, rat, human)
R01HL-23224-01 Hypoxia and pulmonary vascular smooth muscle (rat, cat)
P60HL-23282-01 0001 Comprehensive hospital/community sickle cell center - Fetoscopy for intrauterine diagnosis of hemoglobinopathy (human, monkeys)
R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)
R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
R01HL-23595-01 Experimental emphysema--Depression of protease inhibitors (rats, hamsters)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)
R01HL-23653-01 Protection of the ischemic myocardium (dogs)
R01HL-23980-01 Effects of digoxin therapy in newborn and adult sheep
N01HR-62901-04 Measure pulmonary function in infants and children (also dogs, rabbits)
** N01HV-53029-04 Nonhuman primate models of atherosclerosis
** N01HV-53030-05 Nonhuman primate models of atherosclerosis and hypertension
** N01HV-53031-04 Nonhuman primate models of atherosclerosis and hypertension
** N01HV-62905-02 Non-human primate models of arteriosclerosis
N01HV-72925-04 Non-invasive detection of atherosclerotic lesions (human, monkeys, dogs)
N01HV-72933-01 Electrical energy transmission technique development (dogs)
** N01HV-72978-02 Development of models of hypertension
** N01HV-72980-02 Development of models of hypertension

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

MODELS, CHEMICAL

SEE ALSO ENZYME MODELS

R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
P01HL-06285-18 0199 Cardiovascular-respiratory physiology and biochemistry - Renal tubular reabsorption of sodium chloride (hamsters, rabbits)
P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changes in lymphocytes (human, mice)
R01HL-09739-13 Biophysical studies of proteins (human)
R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
R01HL-12395-10 X-ray study of oxygen-carrying cobalt complexes
R01HL-12526-09 Raman spectra of heme proteins and related molecules
R01HL-13157-09 Molecular oxygen carriers--Synthesis, structure, bonding
R01HL-13164-07 Interaction of the alpha and beta chains of human hemoglobin
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
R01HL-13581-11 Reactions of oxygen with heme proteins
R01HL-13652-08 Metal sites in metalloproteins (mushroom)
R01HL-14111-07 Cholesteryl esters in membranes and atherosclerosis (human, swine)
** P50HL-14147-08 0014 Specialized center of research in thrombosis - Theoretical models for electrostatic effects in blood clot formation
P50HL-14237-07 0003 Support for arteriosclerosis center - Structure of lipoproteins and apolipoproteins (human, rabbits)
R01HL-14680-07 Specific enrichment of myoglobins for carbon 13 NMR (catacea)
R01HL-15155-05 Rheology of pulmonary secretions (dogs)
R01HL-15293-07 Sickle cell hemoglobin--Interactions and aggregation (human)
** R01HL-15640-06 Thermodynamic studies on model oxygen carriers
P01HL-15835-06 0006 Study of muscles related to heart disease - Ultrastructural and chemical studies of muscle (animals)
R01HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin
** R01HL-16087-05 Structural and dynamic study of model heme complexes (yeast)
P01HL-16607-05 0001 Calcium ion and control of cardiovascular function - Bilayer lipid membranes, antibiotic probes, and SR function
R01HL-16860-05 Mossbauer studies of respiratory hemoproteins
R01HL-18253-03 Structure of the palytoxins
R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
** R01HL-19514-03 Proteinase inhibitor model with clinical potential
R01HL-20073-02 Blood compatible materials by fluid perfusion (human, dogs)
R01HL-22771-01 Thrombogenic phospholipid surfaces (cattle)
R01HL-23598-01 Dietary fat, cholesterol and bile acid turnover (rats)

MODELS, MATHEMATICAL

SEE ALSO COMPUTER SIMULATION

R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
P01HL-06285-18 0210 Cardiovascular-respiratory physiology and biochemistry - Physicochemical and enzymatic studies of lung surfactant (Halobacterium)
R01HL-07575-15 Analysis of time-coherent cardiovascular data
P01HL-07896-15 0036 Environmental biomedical research program - Respiratory heat loss in deep diving (infants, dogs)
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
P01HL-08899-14 0020 Tolerance to respiratory gases in health and disease - Oxygen tolerance (human, rats, guinea pigs)
P01HL-08974-14 0028 Natural and experimental atherosclerosis - Geographic pathology of atherosclerosis and coronary heart disease (human)
** P01HL-09011-15 0012 A research and resource program in blood - Theoretical population genetics (human)
P01HL-09011-15 0017 A research and resource program in blood - Operations research laboratory
R01HL-09510-14 Control of cholesterol metabolism--Bile acid transport
R01HL-10330-11 Physiological mechanics of the heart and arteries (dogs, rabbits, horses)
R01HL-10417-12 Multiple systems in electrocardiography (human)
P01HL-11307-12 0002 Biophysical studies in pediatric cardiology - Cardiac extracellular electrophysiology (human, dog, chimpanzee)
P01HL-11307-12 0003 Biophysical studies in pediatric cardiology - Cellular biophysics (animals)
P01HL-11307-12 9001 Biophysical studies in pediatric cardiology - Core support--computer science
P01HL-11307-12 9002 Biophysical studies in pediatric cardiology - Biomedical engineering
** P01HL-11310-12 0054 Mechanisms of cardiovascular disease - Mathematical model of ventricular pressure-volume (human, dogs)
P01HL-11310-12 0056 Mechanisms of cardiovascular disease - Cardiac output response to blood pressure reduction in infants (human)
P01HL-11310-12 0057 Mechanisms of cardiovascular disease - Blood pressure reduction after heart surgery in adults (human)
P01HL-11310-12 0069 Mechanisms of cardiovascular disease - Factors affecting mortality and morbidity after heart surgery (human)
P01HL-11310-12 0070 Mechanisms of cardiovascular disease - Factors affecting long-term mortality and morbidity after heart surgery (human)
P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
** P01HL-11351-12 0013 Cellular and molecular mechanisms of myocardial function - Ion exchange in the perfused septum high-resolution technique (rabbits, rats)
M P01HL-11678-11 Cardiovascular dynamics and their control
** P01HL-11678-11 0009 Cardiovascular dynamics and their control - Control of respiration (cat, human)
** P01HL-11678-11 0017 Cardiovascular dynamics and their control - Overall control of circulation--Mathematical analyses
P01HL-11678-11 0064 Cardiovascular dynamics and their control - Renal medulla--Control of renal hemodynamics, electrolyte excretion (dogs)
P01HL-11678-11 9001 Cardiovascular dynamics and their control - Core--Computer services
** R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
R01HL-11919-08 Pulmonary circulation in surgical heart disease (human, dogs)
P01HL-12157-11 0054 Functions and mechanisms of cell membrane ion transport - Simulation of electrogenic ion transport in cardiac muscle
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
R01HL-12607-10 Dynamics of pulsatile blood flow (human, dogs, rats)
** R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
R01HL-12820-09 In vitro regulation of prothrombin activation
M R01HL-12879-09 Pulmonary transport and metabolism in vivo
** R01HL-12879-09 0002 Pulmonary transport and metabolism in vivo - Osmotic compartmental model of barrior exchange
R01HL-12879-09 0008 Pulmonary transport and metabolism in vivo - Stop-flow technique for permeability measurements
R01HL-12879-09 0011 Pulmonary transport and metabolism in vivo - Membrane characteristics of lung cells (human, animals)
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
** R01HL-13233-08 Cardiorespiratory control in exercise (human)
R01HL-13323-08 Intrarenal pressure and renal function (human, dogs)
P01HL-13330-08 0031 Mechanical circulatory support - Hemodynamics of cardiac prosthesis
R01HL-13596-07 Clearance of plasma proteins from alveoli
R01HL-13803-07 Advanced cardiac valvular and vascular prosthesis (dogs, baboons)
R01HL-13824-06 Defense mechanisms in pathogenesis of emphysema (human, dogs)
P50HL-14138-05 0016 Center for research on atherosclerosis - Computer analysis of angiograms
** P50HL-14147-08 0013 Specialized center of research in thrombosis - Mathematical models of blood coagulation kinetics
** P50HL-14214-07 0033 Newborn lung center for hyaline membrane disease - Statistical modeling, predictive classification in clinical management of HMD
** P01HL-14388-07 0214 Regulation of the circulation in pathological states - Deformation pattern and stress analysis of the left ventricle
** P01HL-14388-07 0215 Regulation of the circulation in pathological states - Left ventricle model in pathophysiologic states
P01HL-14388-07 0217 Regulation of the circulation in pathological states - Fluid mechanics of aortic flow (dogs, human)
** P01HL-14414-07 0003 Environmental influences on cardiorespiratory and cellular functions - Exposure to abnormal gaseous environments (human, dogs, rabbits)
** R01HL-14495-05 Solid and structural mechanics of lungs (mammals)
P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
P01HL-14580-07 0002 Program project in respiratory mechanics - Airway aerodynamics (human, dogs)
P01HL-14580-07 0005 Program project in respiratory mechanics - Development and evaluation of tests of pulmonary function (human)
R01HL-14614-07 Voltage control of contraction in heart (sheep)
** R01HL-14651-05 Mechanical behavior of left ventricle (dogs, rats)
R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
M P01HL-15194-07 Pathophysiology of cardiopulmonary dysfunction
R01HL-15378-06 Ultrastructure of antihypertensive prostaglandins
** R01HL-15622-05 Computer simulation in cardiology (rats, dogs)
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
** P01HL-15832-06 0005 Chemical-structural predispositions to lung injury - Pulmonary structure and stress-strain relationships (rats)
R01HL-16325-03 Breathing patterns in man
** R01HL-16580-04 Mathematical models for studying sickle-cell disease
** P01HL-16851-04 0003 Human red cell membrane in health and disease - Modeling membrane mechanics and blood rheology
P01HL-16910-05 0005 Regulation of the peripheral circulation - Control of circulation by baroreceptor and chemoreceptor reflexes (dog, monkey)
** R01HL-16916-04 0001 The role of albumins in lung water accumulation - Capillary permeability (dogs, human)
R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
P01HL-17421-05 0001 Regulation and exchange in the microcirculation - Mass transfer and microcirculatory function (rats)
P01HL-17421-05 0002 Regulation and exchange in the microcirculation - Metabolic and myogenic blood flow regulation in microcirculation (animals)
P01HL-17421-05 0004 Regulation and exchange in the microcirculation - Localization of flow regulation in the microcirculation (cats, human)
R01HL-17452-04 Depolarization induced cardiac automaticity (human, animals)
R01HL-17517-03 Arterial wall oxygen transport in atherosclerosis (rabbits, dogs)
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
P50HL-17646-04 0005 Study of ischemic heart disease - Biochemical markers and mediators of myocardial ischemic injury
** P50HL-17646-04 0006 Study of ischemic heart disease - Mathematical models for predicting infarct size using CPK and other markers
P50HL-17651-04 0039 Ischemic heart disease specialized center of research - Measurement and prediction of infarct size (human, dog)
P50HL-17667-04 0041 Study of ischemic heart disease - Biophysical sciences core--Data collection and retrieval
** P01HL-17731-04 0007 Physiological basis of pulmonary disease - Theoretical gas exchange
P01HL-17731-04 0010 Physiological basis of pulmonary disease - Gas exchange kinetics (dogs)
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)
** R01HL-17859-04 Computational methods in cardiac fluid dynamics
R01HL-17998-04 Regulatory mechanisms in blood circulation (dogs)
** R01HL-18022-03 Role of multicomponent diffusion in gas exchange (avian eggs)
R01HL-18040-04 Waveform dependency in defibrillation (calves)
R01HL-18145-03 Oxygen transport mechanisms in hypoxia (dogs, rats, rabbits)
P50HL-18323-04 0042 SCOR hypertension center - Blood viscosity and blood volume in hypertensive disease (human, dog)
R01HL-18426-04 Regulation of renal hemodynamics (dogs)
R01HL-18630-03 Pulmonary hemodynamics in atelectasis and hypoxia (dogs)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-18736-03 Protein transport through arterial tissue (rabbits)
R01HL-18749-03 Ventricular mechanics in the overloaded heart (dogs)
** R01HL-18912-03 Mechanics of heart muscle contraction (cats, dogs)
R01HL-18968-03 Computer technology for transaxial tomography
** R01HL-19076-03 Vagal control of heart rate--A biophysical model (rabbits)
R01HL-19135-04 Heterogeneity of regional myocardial blood flow (dogs)
R01HL-19139-03 Dispersion of diffusible indicators in the body (human, cats, dogs)
** P50HL-19153-02 0004 SCDR--Pulmonary edemas--Eitology, pathogenesis - Physical mechanisms in lung transvascular transport--Math models (sheep)
** P50HL-19153-02 0005 SCDR--Pulmonary edemas--Eitology, pathogenesis - Lung vascular permeability measured by indicator dilution methods (sheep)
P50HL-19153-02 0008 SCDR--Pulmonary edemas--Eitology, pathogenesis - Core--Biomedical engineering
R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
** R01HL-19248-03 Breathing pattern variation and mechanical influences
R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)
R01HL-19350-02 Prevention of thrombosis by applied electric fields (sheep)
R01HL-19370-03 Coronary capillary exchange--The effects of ischemia (dogs, sheep)
R01HL-19454-02 Rheological factors in transport across arterial wall (dogs)
** R01HL-19460-03 Mechanics of the papillary muscle and the left ventricle (cats, rabbits)
R01HL-19487-03 Cardiac actions of digitalis (dogs, cats)
R01HL-19700-03 Deposition of hygroscopic aerosols (models)
** R01HL-19704-03 Aerosol therapy (models, dogs, human)
R01HL-19722-03 Aerosol growth in the respiratory system (models)
P01HL-19737-02 0005 Cellular and molecular aspects of respiratory physiology - Interaction of respiratory exchanges and blood gas parameters (human, animals)
P01HL-19737-02 0010 Cellular and molecular aspects of respiratory physiology - Effects of pulsatile flow and volume on capillary exchanges (dogs, rats)
** R01HL-19824-02 Mass transfer in the microcirculation
R01HL-19946-03 Reduction of iron overload in thalassemia (children, rabbits, dogs, monkeys)
R01HL-20080-02 Surgically induced myocardial edema (dogs)
R01HL-20105-02 Deposition of hygroscopic aerosols in bronchi (dogs, human, models)
R01HL-20273-02 Cardiac fiber direction and the QRS complex (dogs)
P01HL-20552-02 9002 The development and regression of cardiac hypertrophy - Core B--Biomathematics
** P01HL-20592-02 0004 Cell biology of cardiac and skeletal muscle - Excitation, conduction and contraction--Modelling in Purkinje fibers
R01HL-20829-02 Fluid mechanics of heart valve prostheses (dogs, human)
R01HL-20847-02 Respiratory neurochemical control (human, goats)
R01HL-21052-01 Evaluation of a digitalis therapy advisor
R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
R01HL-21188-02 Pulsatory water flux and endothelial cell desquamation
R23HL-21197-02 Right ventricular contraction and relaxation (dogs)
R01HL-21435-02 Control, cardiovascular and renal effects of potassium (dogs)
** R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
** R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin
P01HL-21584-02 0001 Respiratory mechanics in normal and abnormal states - Engineering analysis of lung deformation (human, animals)
** R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL-21796-01 Applied pulsatile hemodynamics in vascular surgery (dogs)
** R23HL-21855-01 Mathematical models of branching in the human lung
R01HL-22118-02 Microcirculation in patients with diabetes mellitus
R01HL-22136-02 Histamine and cardiac adenyl cyclase
R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
R01HL-22201-01 Pharmacology and chemistry of nudibranch toxins (guinea pigs, rats, mice)
** R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
R01HL-22235-01 Mechanism of cardiac pacemaking (rabbits)
R01HL-22265-02 Isozymes of heart glutamate aspartate transaminase (swine, ducks)
R01HL-22313-01 Lung elastic recoil--Age and disease (human)
R01HL-22327-01 Transport of arterial blood gases through skin (swine)
R01HL-22402-01 Heparin-biophysical, chemical and biological aspects (mice, human)
R01HL-22562-02 Mechanism of cardiac action potential propagation (tunicates)
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
R01HL-22604-01 Non-invasive system for arteriosclerosis studies (human)
R01HL-22801-01 Analysis of coronary artery behavior (dogs)
R23HL-22933-01 Transvascular fluid and protein exchange in the lung (sheep)
R01HL-22955-01 inetics of prothrombin activation
** R23HL-22975-01 Dynamics of autoregulation of muscle blood flow (dogs)
R01HL-22976-01 Nonuniform ventilation and diffusing capacity (human)
R01HL-22980-01 Kinetic and mechanistic studies of blood coagulation (human, cattle)
** R01HL-23194-02 Genetics of hypertension and associated variables (human)
** R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)
R01HL-23982-01 Control of coronary flow by carbon dioxide tension (dogs)
R01HL-23983-01 Quantitative radiocardiography (human, dogs)
N01HR-62901-04 Measure pulmonary function in infants and children (also dogs, rabbits)

MODELS, PHANTOM

P01HL-07293-17 0050 Non-invasive cardiovascular measurements - Cardiac dimensions measurements engineering evaluation and error analysis
P01HL-07293-17 0051 Non-invasive cardiovascular measurements - Physiologic evaluation of duplex scanner (dogs)
** R01HL-12083-11 Flow field in aorta and its major branches (dogs, phantom models)
** R01HL-15722-06 Hemorrheology studies related to in vivo blood flow (human)
R01HL-18156-02 Hemodynamics in curved arteries
R01HL-18969-02 Arterial wall oxygenation (rabbits, dogs)
P01HL-19717-02 0046 Response of the lung to injury - Bioengineering section
R01HL-21697-01 Myocardium infarct sizing by 82Rb emission tomography (dogs, human)
R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)
** R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
N01HV-52966-01 Development and evaluation of an ultrasonic imaging system (swine)
** N01HV-62969-03 Cardiology patient simulator evaluation
N01HV-72930-02 Atherosclerosis assessment--Angiography and ultrasound (dogs, human)
N01HV-72931-02 Non-invasive detection of atherosclerotic lesions (human, dogs)
N01HV-72932-00 Non-invasive detection of atherosclerotic lesions (human, phantoms)

MOLECULAR BASIS OF NEOPLASTIC DISEASE

SEE NEDPLASMS CHARACTERISTICS, MOLECULAR LEVEL STUDIES

MOLECULAR BIOLOGY

SEE ALSO NEDPLASMS CHARACTERISTICS, MDLECULAR LEVEL STUDIES

P01HL-03174-23 0010 Mechanisms of acute vascular reaction to injury - Search for mutagens in the human blood (bacteria, animals)
P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
P01HL-06285-18 0193 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Aldosterone (rats, toads)
P01HL-06285-18 0194 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--RNA synthesis (rats, toads)
P01HL-06285-18 0195 Cardiovascular-respiratory physiology and biochemistry - Thyroid thermogenesis and sodium transport (rats)
P01HL-06285-18 0196 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Epithelial cell membranes (toads)
** P01HL-06285-18 0215 Cardiovascular-respiratory physiology and biochemistry - Conformation of biopolymers
R01HL-08299-16 Molecular biology of hemerythrin and hemocyanin (invertebrates)
** P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
P01HL-11351-12 0006 Cellular and molecular mechanisms of myocardial function - Molecular physiology and energetics of muscle (frogs)
P01HL-11351-12 0019 Cellular and molecular mechanisms of myocardial function - Mechano-chemical kinetics of small perturbations
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
R01HL-15696-06 Mechanism and role of cyclic GMP in heart (animals)
P01HL-15835-06 0006 Study of muscles related to heart disease - Ultrastructural and chemical studies of muscle (animals)
P01HL-15835-06 0007 Study of muscles related to heart disease - Structure and function of Limulus striated and cardiac muscle
** R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
P01HL-16137-05 0008 Alveolar biology - Macromolecular events in pulmonary cells in toxic environments (animals)
R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
M P01HL-16411-04 Blood systems in coagulation and vessel disease
** P01HL-16411-04 0001 Blood systems in coagulation and vessel disease - Molecular studies of the role of complement in blood coagulation (human, rabbits)
** P01HL-16411-04 0003 Blood systems in coagulation and vessel disease - Molecular events involving the late stages of coagulation (rabbits)
P01HL-16411-04 0006 Blood systems in coagulation and vessel disease - Factor VII--Immunochemistry and immunobiology (human, mice)
** P01HL-16683-04 0001 Function and growth of cardiac and skeletal muscle - Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)
P01HL-16683-04 0002 Function and growth of cardiac and skeletal muscle - Myosin, actin, ATP, interaction in solution
P01HL-16851-04 0006 Human red cell membrane in health and disease - Hexose transport and erythrocyte membrane proteins (human)
R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)
** P01HL-18576-03 0002 Thrombosis research program project - Molecular basis of fibrin formation (human, cattle, lamprey)
M P01HL-18577-03 Lipoproteins--Cell surface interactions
P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
P01HL-18577-03 0003 Lipoproteins--Cell surface interactions - Mechanism of lipid exchange in lipoproteins and cell membranes
P01HL-18577-03 0004 Lipoproteins--Cell surface interactions - Analysis and chemical modification of proteins in lipid transport (human, dogs)
M P01HL-18708-03 Dxygen, energy and contractility in cardiac tissue
P01HL-18708-03 0003 Dxygen, energy and contractility in cardiac tissue - Structural-functional studies on cytochrome c oxidase
** P01HL-18708-03 0004 Dxygen, energy and contractility in cardiac tissue - Structural-functional studies on sarcoplasmic reticulum (rabbits)
P01HL-18708-03 0005 Dxygen, energy and contractility in cardiac tissue - Cytosolic calcium homeostasis and bioenergetics of cardiac tissue (animals)
P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
P01HL-18708-03 0010 Dxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-19423-03 Catecholamine action on the heart (cats, rats)
R01HL-19455-03 Role of endothelial cells in vascular permeability (tissue culture)
R01HL-19653-03 Circulatory system effects of angiotensin analogs (rats)
R01HL-20262-02 Cardiac glycosides and the mechanism of the sodium-potassium pump
R01HL-20339-02 Vascular alpha-adrenergic receptor molecular properties
R01HL-20365-03 Molecular mechanisms of anion transport
** P01HL-20592-02 0001 Cell biology of cardiac and skeletal muscle - Molecular mechanism of muscle contraction (animals)
P01HL-20984-02 0002 Cellular mechanisms in cardiac hypertrophy - Thermodynamic, fluorescence, chemical modification of hypertrophied heart myosin
R23HL-21051-02 Adrenergic receptors and the adenylate cyclase system (frog RBC)
** R01HL-21139-02 Molecular biology of factor XIII (human)
R01HL-21140-01 Studies of pulmonay alveolar macrophage function (rabbits)
** R01HL-21342-02 Isolation and analysis of sodium channel from heart (frogs)
R01HL-22040-01 Regulation of lysyl-cross-linking in vascular tissue (rats, turkeys)
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
M P01HL-22619-01 Cellular mechanisms of heart failure
** P01HL-22619-01 0001 Cellular mechanisms of heart failure - Cell membrane isolation and reconstitution (dogs, lambs)
** P01HL-22619-01 0002 Cellular mechanisms of heart failure - Structure of sodium, potassium-adenosine triphosphatase (lambs, dogs)

(contd)

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See Appendix for investigator's name and grant number.

P01HL-22619-01 0005 Celluler mechanisms of heart failure - Molecular mechanism of regulation of cardiac muscle contraction (cattle)
P01HL-22619-01 0008 Cellular machanisms of heart failure - Molaculer mechanisms and differential contractile responsiveness in VSM (dogs)
P01HL-22633-01 Cellular and molacular biology of lipoprotein metabolism
P01HL-22633-01 0004 Cellular and molacular biology of lipoprotein matebolism - Lipid-lipid and lipid-protein interactions in serum lipoproteins (human, rats)
R01HL-22664-01 Regulation of myocardial call growth (rats, guinea pigs)
R01HL-23010-01 Control and mechenism of platelet aggregation (human)
R13HL-23072-01 Gordon Research Conference--Cardiac and skeletal muscle (New Hampshire)
R01HL-23108-01 Membrane biochemistry of RH antigens (human)
* R01HL-23115-01 Regulation of ective sodium transport (frogs, rats)
R01HL-23183-01 Voltage dependent conductance in membranes

MOLECULAR BIOLOGY STUDY SECTION

* R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, enimals)
* R01HL-09125-14 Ultrestructurel cytochemistry (humen, chick)
* R01HL-13831-08 Fectors regulating embryonic cardiac morphogenesis (chick, salemandra)
* R01HL-16637-04 Development and regression of cerdiac hypertrophy (rats)
** R01HL-16730-03 Physiology of mucociliary transport (rets, frogs, rabbits)
** R01HL-17080-05 Localizetion of pore systems in capillary wells (rats, mice, rabbits)
** R01HL-17525-03 Molecular basis of collagen-pletelet interaction (human, rat)
** R01HL-17551-04 Biosynthesis end metabolism of procollagen (human, monkeys, mice)
** R01HL-17879-04 Molecular structure of the ouebein sensitive ATPase (dogs)
** R01HL-19068-03 Chenges in membrene properties during erythropoiesis (chick embryo)
** R01HL-20300-02 Histone H5 end avien erythropoiesis (chickens, rebbits)
** R01HL-22174-01 Assembly of membrenes in heart end yeest mitochondria
** R01HL-22550-02 Genetic cerdiomyopathies in salamanders end hamsters
** R23HL-22839-01 Cellular translation of liposomally-delivered mRNA (humen, mammels)

MOLECULAR CONDENSATIONS

P01HL-15486-06 0001 Studies on thrombosis - Studies on chemistry of fibrinogen (humen, dogs)
** P60HL-16008-06 0017 Wayne State University comprehensive sickle cell center - Oxygen transport kinetics of pre- and post-sickling cells (human)
R01HL-21617-02 Biochemistry of lung proteoglycans (rabbits, cattle)
** R01HL-21622-02 Structure and interactions of lung proteoglycans (cattle)
R01HL-21646-02 Biosynthesis of fractionated proteoglycens of lung (rabbits)

MOLECULAR CONDENSATIONS, COPOLYMERS

M P01HL-15195-04 Program project in biologicel meteriels
P01HL-15195-04 0001 Program project in biological materials - Design end synthesis
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
P01HL-15195-04 0003 Progrem project in biological meterials - Mechanical evaluetion and fabrication
P01HL-15195-04 0004 Program project in biological materials - Biological evaluetion and surface interaction studies (dogs)
R01HL-15293-07 Sickle cell hemoglobin--Interactions and aggregetion (human)
P01HL-18576-03 0003 Thrombosis research program project - Biocompatible materiels

MOLECULAR CONDENSATIONS, DIMERS

P01HL-06285-18 0164 Cardiovascular-respiratory physiology and biochemistry - CPK MB isoenzyme concentration to quantify infarct size (human, animals)
R01HL-15284-06 Hemoglobin and myoglobin kinetic studies (human, animals)
P60HL-17269-04 0014 National heart and blood vessel research and demonstration center - Physio-chemical nature of lipid deposits in arterial wall (human)

MOLECULAR CONDENSATIONS, MONOMERS

P60HL-17269-04 0014 National heart and blood vessel research and demonstretion center - Physio-chemical nature of lipid deposits in arterial wall (human)
R01HL-21194-02 Development of entithrombogenic plastic biomaterials
N01HV-32913-11 Study electrodeless glow discharge for modifying polymer surface

MOLECULAR CONDENSATIONS, POLYMERIZATION-DEPOLYMERIZATION

** R01HL 01662-25 Equilibrie in tha fibrinogen-fibrin conversion (human, cettle)
P01HL-03174-23 0002 Mechenisms of acuta vascular reaction to injury - Chemical structura, pathological significance of emyloid substance (human, mice)
R01HL-05791-18 Structure and function in hemoglobins (human)
P01HL-06350-17 0020 Hemostasis research program project - Structure and function of coagulant venom proteases
R01HL-07379-13 Structure end function of fibrinogen (human)
R01HL-10383-12 Physical-chemicel studies of hemoglobins and erythrocyte (human)
P01HL-11310-12 0103 Mechanisms of cardiovescular diseese - Heparin--Metabolism and function
** R01HL-12256-15 Polymerization of sickle-cell hemoglobin (humen)
R01HL-13164-07 Interaction of the alphe end bete chains of human hemoglobin
R01HL-13870-09 Control of myocerdial sarcotubular calcium stores (dogs)
P60HL-15157-07 0018 Comprehensive center for sickle cell diseese - Red blood cell membrane physiology in sickle cell anemie (human)
** P60HL-15168-07 0009 Comprehensive sickle cell disease center - Spin-label study of sickling (human)
** P01HL-15195-04 0001 Program project in biological materials - Design and synthesis
** R01HL-15226-06 Interaction of blood cells with fibrinogen end fibrin (human, animals)
R01HL-15293-07 Sickle cell hemoglobin--Interactions and aggregation (human)
P01HL-16833-04 0001 Hemoglobin and red cell system in hemoglobinopethies - Motility, association end ligand binding in hemoglobin--Hydrogen exchange
** P01HL-16833-04 0002 Hemoglobin end red cell system in hemoglobinopethies - Polymerization end gel formation in solutions of hemoglobin A and S (humen)
P01HL-16833-04 0017 Hemoglobin and red cell system in hemoglobinopathies - Sulfhydryl group blockade antisickling effect (human)
** R01HL-16927-05 Structure and function of normal and abnormal hemoglobin (human)
R01HL-17411-04 Molecular studies of red blood cell spectrin (human)
P01HL-17419-04 0001 Studies on mechanisms of hemostasis - Structure and metabolism of fibrinogen (human)
** R01HL-17552-03 Sickling inhibition by chemicel modification of hemoglobin (human)
R01HL-17828-04 Kinetic studies of hemerythrin reections (merine worms)
** R01HL-18030-04 The role of contractile proteins in platelets (human, rabbits)
R01HL-18533-03 Microcrystalline end crystalline fibrinogen (cattle, bacteria)
R01HL-18672-03 Dynamic studies of clot structure formetion (human)
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (humen)
R01HL-19323-03 Studies of platelet microtubule protein
R01HL-19419-03 Celluler interactions with foreign meterials (mammels)
R01HL-19456-03 Immunoglobulins associated with serum hyperviscosity (human)
R01HL-20106-02 Coupling of platelet contrectile proteins to fibrin (human)
R01HL-20902-02 Studies on merginal band system of erythrocytes (amphibians, reptiles, fish)
** P60HL-20985-01 0003 Northern California sickle cell center - Kinetics of sickling and clinical manifestations in sickling disorders (human)
P01HL-21016-02 0002 Sickle cell anemia end other hemoglobinopethies - Molecular events proceeding gelation of Hb S
P01HL-21016-02 0003 Sickle cell anemia and other hemoglobinopethies - Role of non-S hemoglobin in gelation and sickling
P01HL-21016-02 0004 Sickle cell enemia end other hemoglobinopathies - Kinetics of sickling
P01HL-21016-02 0005 Sickle cell anemia and other hemoglobinopethies - Ligend kinetics in normal and Hb S containing erythrocytes (human)
P01HL-21016-02 0006 Sickle cell anemia and other hemoglobinopathies - Analysis of the oxygen dissociation curve of Hb S-containing red cells
P01HL-21016-02 0007 Sickle cell anemia and other hemoglobinopathies - Cellular determinants of red cell sickling
P01HL-21016-02 0008 Sickle cell anemia and other hemoglobinopathies - The clinical variations of sickle cell enemia
P01HL-21016-02 0009 Sickle cell anemia and other hemoglobinopathies - Nitrogen mustards and their potential use as antisickling agent
P01HL-21016-02 0010 Sickle cell anemia and other hemoglobinopathies - Alkylureas es potential enti-sickling agents
R01HL-22505-01 Moleculer pethology of fibrinogen and fector XIII (human, animals)
R01HL-23267-01 Rheology end kinetics of hemoglobin S gelation (human)
N01HV-32913-11 Study electrodeless glow discharge for modifying polymer surface

MOLECULAR CONDENSATIONS, POLYMERS (GENERAL)

SEE ALSO MOLECULAR CONDENSATIONS, RESINS
SEE ALSO MOLECULAR FILMS
SEE ALSO PLASTICS
** P01HL-06285-18 0215 Cardiovescular-respiratory physiology and biochemistry - Conformation of biopolymers
P01HL-11310-12 0103 Mechanisms of cardiovascular disease - Heparin--Metabolism and function
R01HL-11418-09 Poly dieminophosphazenes
P01HL-13738-08 0004 Cerdiac assist devices and artificial hearts - Hematological evaluation of prosthetic materials (calves)
P01HL-13738-08 0005 Cardiac assist devices and artificial heerts - Development of new materiels for artificial heart end assist devices (sheep, dog)
R01HL-15155-05 Rheology of pulmonery secretions (dogs)
** P01HL-15195-04 0003 Program project in biologicel materials - Mechenical evaluation and fabrication
** R01HL-15520-06 Total blood replacement by fluorocerbons end polyols (rats)
R01HL-18764-03 Biosorbable thromboresistant surfeces (dogs, rats, swine, human)
R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
** R01HL-19419-03 Cellular interections with foreign materials (mammels)
R01HL-20073-02 Blood compatible materiels by fluid perfusion (human, dogs)
** R01HL-20251-02 A novel approech to nonthrombogenic polymer surfaces (sheep, cettle)
** R01HL-20313-02 Surface-induced thrombosis--Modificetion of albumin variants (human, goat)
** R01HL-21001-01 Protein and thrombus deposition on vascular grafts
P01HL-21016-02 0001 Sickle cell enemia and other hemoglobinopathies - Supremolecular models of Hb S--Mutetional end EM approech
R01HL-21194-02 Development of antithrombogenic plastic biomaterials
R01HL-21329-02 Bete-receptor regulation end cerdiac sites of drug action (cat, guinea pig, ret)
** R01HL-21769-01 Blood compatible benzamidine containing polymers
R23HL-21805-01 Tissue cell interactions with vascular prostheses (humen, rets, mice)
M P01HL-22163-01 Surfece thrombogenesis--Mechanisms and prevention
** P01HL-22163-01 0001 Surface thrombogenesis--Mechanisms and prevention - Initial blood protein and pletelet interactions with biomaterials (baboons)
** P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)
** P01HL-22163-01 0003 Surfece thrombogenesis--Mechanisms and prevention - In vivo mechanisms of biomaterial thrombogenesis and its prevention (baboons)
** P01HL-22163-01 9001 Surfece thrombogenesis--Mechanisms and prevention - Polymers for studing blood-meterial interections core
P01HL-22602-01 0003 Pathophysiology of the endothelium - Mechanisms of endotheliel proliferetion (human, animals)
R01HL-23120-01 Chelating agents es blood substitutes
** N01HV-12017-15 Fabrication of grefted hydrogel coetings for plastic heert essist devices
N01HV-12065-16 Febrication of implanteble ertificial heart devices (animals)
** N01HV-32913-11 Study electrodeless glow discherge for modifying polymer surface
** N01HV-42984-05 Interactions of modified biopolymers with blood (humans, rats)
** N01HV-72918-01 Test polymers for circulatory assist devices
** N01HV-72919-01 Test polymers for circulatory assist divices

MOLECULAR CONDENSATIONS, RESINS

SEE ALSO PLASTICS
** P01HL-15596-05 0020 Coagulation, fibrinolysis, hemostasis and hepatitis - Affinity chromatography

MOLECULAR CYTOLOGY STUDY SECTION

** R01HL-19132-04 Role of zinc transferrin in lymphocyte transformation (human)
** R01HL-21096-02 Sickle cell crisis--Role of the erythrocyte membrane (human)
** R23HL-21189-01 Regulation of pulmonary endothelial cell activities (human, cattle)
** R01HL-21217-01 Ion and 5-hydroxytryptamine transport by platelets
** R01HL-21845-01 Human red cell membrene--Structure and function
** R01HL-21970-01 Myofibrillar assembly and breakdown in cardiac muscle (rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-22367-01 Estrogen receptors in very low density lipoproteins (chicken livers)
** R01HL-23593-01 Mast cell granules--Structure and secretion (rats)

MOLECULAR FILMS
SEE ALSO MOLECULAR CONDENSATIONS, POLYMERS (GENERAL)
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
P01HL-15195-04 0003 Program project in biological materials - Mechanical evaluation and fabrication
** N01HV-42928-07 Continued development of carbon film deposits for prosthetics

MOLECULAR FILMS, MONOMOLECULAR FILMS
P01HL-06285-18 0213 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gas vacuole membrane (Halobacterium)
P50HL-14147-08 0003 Specialized center of research in thrombosis - Surface thrombogenicity and phospholipid vesicle physical properties
P50HL-14147-08 0014 Specialized center of research in thrombosis - Theoretical models for electrostatic effects in blood clot formation
P50HL-14147-08 0015 Specialized center of research in thrombosis - Charge related properties of phospholipid surfaces in monolayers and vesicles
P50HL-15062-07 0007 Study of lipoproteins, artery wall, and atherosclerosis - Physical chemistry of lipid-protein interaction (human)
P50HL-15062-07 0008 Study of lipoproteins, artery wall, and atherosclerosis - Lipid modifying enzymes (human, monkey)
** P01HL-16607-05 0001 Calcium ion and control of cardiovascular function - Bilayer lipid membranes, antibiotic probes, and SR function

MOLECULAR FRICTIONAL PROPERTIES
SEE ALSO PHYSICAL PROPERTIES, VISCOSITY-VISCOELASTICITY
R01HL-18004-02 Transport through arterial wall--Biophysical aspects (rabbits)

MOLECULAR INTERACTIONS NONBONDING
R01HL-10383-12 Physical-chemical studies of hemoglobins and erythrocyte (human)
R01HL-13909-27 Physiochemistry and immunology of macromolecules
P50HL-14147-08 0014 Specialized center of research in thrombosis - Theoretical models for electrostatic effects in blood clot formation
P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
R01HL-21791-01 Precipitation of proteins with poly (ethylene glycol) (human)

MOLECULAR LEVEL STUDIES OF NEOPLASMS
SEE NEOPLASMS CHARACTERISTICS, MOLECULAR LEVEL STUDIES

MOLECULAR MONOLAYERS
SEE MOLECULAR FILMS, MONOMOLECULAR FILMS

MOLECULAR ORBITALS
SEE ELECTRONIC SPECTRA, MOLECULAR ORBITALS

MOLECULAR POLARITY
R01HL-16101-05 Protein-lipid interaction (bacteria, models)
R01HL-21096-02 Sickle cell crisis--Role of the erythrocyte membrane (human)

MOLECULAR REARRANGEMENT
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
R01HL-09544-12 Biochemistry of contractile proteins (animals)
R01HL-10383-12 Physical-chemical studies of hemoglobins and erythrocyte (human)
R01HL-12524-10 Reaction of hemoglobin with ligands and antibodies (human, carp)
R01HL-12526-09 Raman spectra of heme proteins and related molecules
** R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-13035-08 Heart mitochondrial malate dehydrogenase regulation
R01HL-13164-07 Interaction of the alpha and beta chains of human hemoglobin
R01HL-14508-10 Structure and function of respiratory hemoproteins
R01HL-14680-07 Specific enrichment of myoglobins for carbon 13 NMR (catacea)
R01HL-15284-06 Hemoglobin and myoglobin kinetic studies (human, animals)
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)
R01HL-17494-07 Mechanism of ligand binding to hemoglobin (human)
R01HL-17552-03 Sickling inhibition by chemical modification of hemoglobin (human)
R01HL-17878-04 Structural studies of the human erythrocyte membrane
R01HL-18226-04 Mechanism of oxygen supply to tissue (human, animals)
R01HL-18304-03 FT-infrared spectroscopy of heart muscle energetics (cattle)
R01HL-18309-04 Oxygen transport--Hemoglobins with modified hemes (horse)
R01HL-18533-03 Microcrystalline and crystalline fibrinogen (cattle, bacteria)
R01HL-19481-03 High-field NMR studies of respiratory proteins (human, horse, fish, microbes)
R01HL-19982-02 Blood coagulation--Protein-metal ion-lipid interactions
R01HL-20464-01 Regulation of cardiac and skeletal muscle contraction (mammals)
R01HL-22461-01 Cardiac tropomyosin and tropomyosin-action interactions (rabbit)
R01HL-22729-01 Intracellular degradation of newly synthesized collagen (human, chick, rabbit)

MOLECULAR SHAPE
SEE CHEMICAL STRUCTURE, MOLECULAR SHAPE

MOLECULAR SIEVES
SEE PHYSICAL SEPARATION, MOLECULAR SIEVES*

MOLECULAR SIZE
SEE ALSO CHEMICAL STRUCTURE, CHAIN LENGTH
SEE ALSO MOLECULAR WEIGHT
SEE ALSO MOLECULES, MACROMOLECULES
P01HL-16851-04 0008 Human red cell membrane in health and disease - Force balance in red cell interactions (human)
R01HL-18004-02 Transport through arterial wall--Biophysical aspects (rabbits)
R01HL-19095-03 Laser spectroscopy of lipoproteins (human)
R01HL-19491-03 Mechanism of iron storage and mobilization by ferritin (horse)
R01HL-21622-02 Structure and interactions of lung proteoglycans (cattle)
R01HL-21877-01 Iso-renins in the hypertensive rat
** P01HL-22602-01 0002 Pathophysiology of the endothelium - Molecular charge and endothelial permeability (rats, mice)

MOLECULAR STABILITY
SEE CHEMICAL STABILITY

MOLECULAR STRUCTURE
SEE CHEMICAL STRUCTURE

MOLECULAR STRUCTURE-BIOLOGICAL ACTIVITY
SEE CHEMICAL STRUCTURE--BIOLOGICAL ACTIVITY

MOLECULAR VIBRATIONS
SEE CHEMICAL BONDS, VIBRATIONS

MOLECULAR WEIGHT
SEE ALSO MOLECULAR SIZE
P01HL-03174-23 0002 Mechanisms of acute vascular reaction to injury - Chemical structure, pathological significance of amyloid substance (human, mice)
P01HL-09011-15 0019 A research and resource program in blood - The transport mechanism of mRNA (rat, yeast, ascites cells)
R01HL-12256-15 Polymerization of sickle-cell hemoglobin (human)
R01HL-13164-07 Interaction of the alpha and beta chains of human hemoglobin
R01HL-14938-06 Contractile proteins of heart muscle (dogs, rabbits)
P01HL-15596-05 0007 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of urokinase (human)
** P01HL-15596-05 0008 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of antihemophilic factor (human)
P01HL-15835-06 0004 Study of muscles related to heart disease - Actomyosin systems and cell motility (slime molds, human)
P01HL-16137-05 0001 Alveolar biology - Chemical characterization of surfactant system--Lipid and lipid protein fractions
P01HL-16387-04 0008 The blood vessel and thrombogenesis - Factor VIII in hemostasis (human, rabbits)
R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)
R01HL-17402-04 Mechanism of contact activation of intrinsic clotting (human)
R01HL-18028-03 Absorption of nonvolatile compounds from the lung
R01HL-18068-02 Chemistry and activity of homologous heparin fractions (rodents)
P01HL-18577-03 0004 Lipoproteins--Cell surface interactions - Analysis and chemical modification of proteins in lipid transport (human, dogs)
R01HL-18618-04 Purification and function of human HMW kininogen
R01HL-18746-02 Chemical studies on proteolipid apoproteins (cattle)
P01HL-18974-03 0009 Experimental neurogenic hypertension program - Biochemistry of brain tyrosine hydroxylase (rats)
P01HL-18974-03 0011 Experimental neurogenic hypertension program - Biochemistry and regulation of brain tryptophane hydroxylase (rats)
P50HL-19190-02 0005 Pulmonary SCOR--Pathophysiology, management of IROS - Glycoproteins in mucous secretions (human, cattle)
R01HL-19331-03 Hirudin isolation and utilization (leeches)
R01HL-20500-02 Diabetic human brain microvascular basement membrane (human)
R01HL-20547-02 Glycoproteins in pulmonary alveolar proteinosis (human)
R01HL-21096-02 Sickle cell crisis--Role of the erythrocyte membrane (human)
R23HL-21369-02 Tracheal mucin synthesis in experimental bronchitis (rats)
R01HL-21617-02 Biochemistry of lung proteoglycans (rabbits, cattle)
R01HL-21622-02 Structure and interactions of lung proteoglycans (cattle)
R01HL-21641-02 Structural studies of lung proteoglycans (pigs, cattle, rabbits)
R01HL-21686-02 Purification of erythropoietin (human)
R01HL-21701-02 Purification of erythropoietin (human)
R01HL-21791-01 Precipitation of proteins with poly (ethylene glycol) (human)
R01HL-22288-01 Renin and precursors--Structure and function (mice)
R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)
R01HL-23200-01 Isolation of CA binding proteins from erythrocytes (human)
N01HR-72920-01 Identify and quantify cystic fibrosis factors (human)
N01HR-72923-01 Cystic fibrosis factor identification and quantification (human)

MOLECULES, MACROMOLECULES
SEE ALSO MOLECULAR CONDENSATIONS, POLYMERS (GENERAL)
** P01HL-06285-18 0214 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function-EM of macromolecules
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
P01HL-08805-15 0025 Regulation of ventilation and pulmonary circulation - Pulmonary edema (rabbits)
P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo-Capillary membrane in normal pulmonary hypertensive lung
** P01HL-11310-12 0098 Mechanisms of cardiovascular disease - Protein chemistry of thy-1 and related synaptosomal proteins (mice)
R01HL-15270-06 Local mechanical properties of the aortic tissue (dogs, pigs)
** R01HL-15793-06 Molecular aspects of erythrocyte membrane resealing (human)
P01HL-16137-05 0008 Alveolar biology - Macromolecular events in pulmonary cells in toxic environments (animals)
P01HL-16607-05 0007 Calcium ion and control of cardiovascular function - Ultrastructure and conformation in sarcoplasmic reticulum (rabbits)
R01HL-16666-05 Micropinocytosis in isolated capillary endothelium
** R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)
P01HL-18827-02 0002 Platelet vessel wall interactions in thrombogenesis - Interactions of vessel wall macromolecules with factor XII (human, rats)
P50HL-19157-02 0004 Studies in cystic fibrosis and bronchiolitis - Macromolecular regulators of mucus secretion--Invertebrate model
R01HL-19454-02 Rheological factors in transport across arterial wall (dogs)
R23HL-19594-01 Tropocollagen and tropoelastin uptake in lung cells (human)
R01HL-21188-02 Pulsatory water flux and endothelial cell desquamation
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
R01HL-21438-02 Structure and permeability of arterial endothelium (pigs)
R01HL-22463-02 Pinocytotic vesicles and pulmonary edema (rats)
P01HL-22602-01 0003 Pathophysiology of the endothelium - Mechanisms of endothelial proliferation (human, animals)
R01HL-22883-01 Lung epithelial cell interactions in vitro
** R01HL-22924-01 The airway mucosal barrier (guinea pigs)

MOLLUSKS*
R01HL-09283-14 Pharmacology of molluscan hearts (also rabbits)

MOLLUSKS, GASTROPODS*
** R01HL-22201-01 Pharmacology and chemistry of nudibranch toxins (guinea pigs, rats, mice)

MONITORING DEVICES
SEE BIOMEDICAL SYSTEMS AUTOMATED, MONITORING DEVICES

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

NITORING DEVICES (ENVIRONMENTAL)
SEE AIR SAMPLING-MONITORING

NITORING DEVICES FOR PATIENT MONITORING
SEE BIOMEDICAL SYSTEMS AUTOMATED, PATIENT MONITORING (MONITORING DEVICES)

NITORING OF PATIENTS (AUTOMATED)
SEE BIOMEDICAL SYSTEMS AUTOMATED, PATIENT MONITORING (MONITORING DEVICES)

NOAMINE OXIDASE
SEE OXIDOREDUCTASES, AMINE OXIDASE (FLAVIN CONTAINING)
SEE OXIDOREDUCTASES, MONOAMINE OXIDASE

NOAMINE OXIDASE INHIBITORS
SEE ENZYME INHIBITORS, MONOAMINE OXIDASE INHIBITORS

NOCROTALINE
SEE ALKALOIDS, MONOCROTALINE

NOCYTES
SEE BLOOD CELLS, MONOCYTES

NOMERS
SEE MOLECULAR CONDENSATIONS, MONOMERS

NOMOLECULAR FILMS
SEE MOLECULAR FILMS, MONOMOLECULAR FILMS

NOPHENOL MONOOXYGENASE
SEE OXYGENASES, MONOPHENOL MONOOXYGENASE

NOPHENOL OXIDASE
SEE OXYGENASES, MONOPHENOL MONOOXYGENASE

NOSACCHARIDES
SEE CARBOHYDRATES, MONOSACCHARIDES

ORBIDITY STATISTICS
SEE POPULATION STUDIES HUMAN, MORBIDITY

ORPHINES
SEE ALKALOIDS, MORPHINES

ORPHOGENESIS
SEE GROWTH AND DEVELOPMENT, HISTOGENESIS

ORTALITY STATISTICS
SEE POPULATION STUDIES HUMAN, MORTALITY

OSAICISM
SEE TISSUE MOSAICISM

OSQUITOES
SEE ARTHROPODS, INSECTS, DIPTERA, CULICIDS, MOSQUITOES*

OSSES
SEE PLANTS, BRYOPHYTES, MOSSES*

OTION
SEE ENVIRONMENT, GRAVITY-MOTION

OTION IMAGES, SCANNING
SEE RADIOGRAPHY, SCANNING, OSR

OTION PICTURES
SEE OPTICS, PHOTOGRAPHY, CINEMATOGRAPHY*

OTIVATION
SEE PSYCHOLOGY, MOTIVATION

OTOR CORTEX
SEE BRAIN, CEREBRAL CORTEX, MOTOR CORTEX

OTOR IMPULSES
SEE PSYCHOMOTOR FUNCTION

OTOR NEURONS
SEE NEUROMOTOR SYSTEM, MOTOR NEURONS

OUSE LEUKEMIA VIRUS (GENERAL)
SEE VIRUSES, ONCORNA, LEUKEMIA MOUSE

OUSE LEUKEMIA VIRUS, RAUSCHER
SEE VIRUSES, ONCORNA, LEUKEMIA MOUSE RAUSCHER

OVEMENT DISORDERS
SEE NEUROMOTOR DISORDERS

OVEMENT PERCEPTION, BODY
SEE SENSORY-PERCEPTUAL PROCESSES, PROPRIOCEPTION

MRL-41
SEE STILBENES, CLOMIPHENE

MRNA
SEE NUCLEIC ACIDS, MRNA

MT DNA
SEE NUCLEIC ACIDS, MT DNA

MUCIN
SEE PROTEOGLYCANS, MUCIN

MUCINASE
SEE CARBOHYDRASES, HYALURONIDASE

MUCINASE (HYALURONATE LYASE)
SEE POLYSACCHARIDE C O LYASES, HYLURONATE LYASE

MUCOIDS
SEE PROTEOGLYCANS

MUCOLIPIDOSIS II
SEE METABOLIC DISORDERS INBORN, MUCOPOLYSACCHARIDOSIS, I CELL DISEASE

MUCOLYTIC AGENTS
SEE RESPIRATORY DRUGS, EXPECTORANTS AND MUCOLYTICS

MUCOPOLYSACCHARIDES
SEE POLYSACCHARIDES, GLYCOSAMINOGLYCANS

MUCOPROTEINS
SEE PROTEOGLYCANS

MUCOSA, INTESTINAL
SEE GASTROINTESTINAL SYSTEM, INTESTINES, MUCOSA

MUCOUS MEMBRANE
SEE MEMBRANE, MUCOUS MEMBRANE

MUCOVISCIDOSIS
SEE METABOLIC DISORDERS INBORN, CYSTIC FIBROSIS

MUCUS
SEE BODY FLUIDS, MUCUS

MULTILAYER MEMBRANES
SEE MEMBRANE, MULTILAYER MEMBRANES

MULTIPLE DRUG THERAPY
SEE DRUGS, CHEMOTHERAPY, DRUGS COMBINATION

MULTIPLE MYELOMA
SEE NEOPLASMS OF BLOOD AND RE SYSTEM, BONE MARROW NEOPLASMS, MULTIPLE MYELOMA

MULTIPLE RADIOTRACER
SEE RADIOTRACERS, DOUBLE (MULTIPLE)*

MULTIPLE SCLEROSIS
SEE NERVOUS DISORDERS, MYELINOPATHIES, MULTIPLE SCLEROSIS

MULTIPLE TREATMENT WITH DRUGS
SEE DOSAGE AND ROUTE, RATE AND DURATION OF ADMINISTRATION

MUNICIPAL HEALTH PLANNING
SEE HEALTH CARE (SERVICES)(RESOURCES)PLANNING, REGIONAL MEDICAL PLANNING

MURAMIDASE
SEE CARBOHYDRASES, LYSOZYME

MUSCARINIC AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, PARASYMPATHOMIMETIC

MUSCARINIC RECEPTORS
SEE NEUROTRANSMITTER RECEPTORS, CHOLINERGIC RECEPTORS

MUSCLE CELLS

P01HL-06285-18 0179 Cardiovascular-respiratory physiology and biochemistry - Regulation of myocardial cell growth (rats, chick embryo)
P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
P50HL-14164-07 0035 A/S SCOR--Comparative and experimental atherosclerosis - Lipid metabolism--Interaction with arterial metabolism (monkey, pigeon)
P50HL-14164-07 0036 A/S SCOR--Comparative and experimental atherosclerosis - Connective tissue metabolism--Interaction with arterial metabolism (monkeys)
P50HL-14230-07 0095 A/S SCOR--Lipids, atherosclerosis and thrombosis - Blood platelet adherence to endothelial smooth muscle cells, fibroblast (human)
P50HL-14230-07 9002 A/S SCOR--Lipids, atherosclerosis and thrombosis - Core tissue culture laboratory
P01HL-14388-07 0178 Regulation of the circulation in pathological states - Structural and functional consequences of denervation (rats)
** P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)
P50HL-15062-07 0012 Study of lipoproteins, artery wall, and atherosclerosis - Lipoprotein stimulation of arterial smooth muscle cell proliferation (mammals)
P50HL-15062-07 0019 Study of lipoproteins, artery wall, and atherosclerosis - Factors regulating lipoprotein-smooth muscle cell interaction (monkey)
R01HL-15646-03 Lipid studies in vascular smooth muscle cells (human, monkeys)
P01HL-15832-06 9001 Chemical-structural predispositions to lung injury - Tissue culture studies of lung cell function--Core facility
** P01HL-15835-06 0021 Study of muscles related to heart disease - Fast kinetic studies in muscle subcellular organelles (animals)
** P50HL-17648-04 0026 Study of ischemic heart disease - Control of muscle cell proliferation (organ culture)
P50HL-17682-04 0023 Study of ischemic heart disease - Core cell and organ culture laboratory (mice)
R01HL-17998-04 Regulatory mechanisms in blood circulation (dogs)
** R01HL-18077-04 Smooth muscle cell organization and Ca20 concentration control (chickens)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
P01HL-18645-03 0004 Biology of the artery wall and atherosclerosis - Human arterial smooth muscle cell and lipoprotein interaction
R01HL-19299-03 Myoglobin and oxygen supply to heart and muscle cells (rats, pigeons)
R01HL-19325-03 Phosphodiesterase inhibition and muscle contraction
** P01HL-20592-02 0013 Cell biology of cardiac and skeletal muscle - Sarcoplasmic reticulum in skinned muscle cells (frogs)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
P01HL-20948-02 9001 Molecular basis of cholesterol metabolism - Tissue culture core laboratory
** P01HL-20984-02 0004 Cellular mechanisms in cardiac hypertrophy - Myofibril accumulation in cardiac and vascular muscle cells in hypertrophy
** P50HL-21006-02 0004 Specialized center of research in arteriosclerosis - Regulation of growth of human arterial smooth muscle cells by platelets
R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)
R01HL-21195-02 Innervation of the heart--Acetylcholine receptors (frogs)
R23HL-21539-02 Mechanical properties of isolated small bronchioles (rabbits)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
R01HL-23161-01 0004 Biology of myocardial ischemia - Structure of myofibrils and membranes in early ischemia (dogs, rabbit, rodents)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
R01HL-23542-01 Pulmonary vascular smooth muscle cell dynamics (rat, rabbit)
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)

MUSCLE CELLS, MYOBLASTS

R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)

MUSCLE CELLS, MYOEPITHELIAL CELLS

P50HL-14138-05 0015 Center for research on atherosclerosis - Arterial wall--Intermediary metabolism, enzyme activity and bioenergetics
P50HL-14147-08 0012 Specialized center of research in thrombosis - Tissue culture study of arterial cells (human, hamster)
R01HL-20391-03 Polydisperse LDL--Structure, metabolism and function (human)

MUSCLE CELLS, SARCOMERES

** P01HL-11307-12 0003 Biophysical studies in pediatric cardiology - Cellular biophysics (animals)
P01HL-11351-12 0003 Cellular and molecular mechanisms of myocardial function - Mechanical and electrical properties of cardiac muscle (rabbits)
P01HL-12373-10 0001 Cardiopulmonary physiology and pathophysiology - Mechanics of myocardial contraction (dogs, rats, swine)
P01HL-15835-06 0007 Study of muscles related to heart disease - Structure and function of Limulus striated and cardiac muscle
P01HL-15835-06 0011 Study of muscles related to heart disease - Energetics and mechanism of muscle contraction (frogs, rabbits)
** P01HL-15835-06 0023 Study of muscles related to heart disease - Cellular basis of the Frank-Starling curve (frogs, rats)
** R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
R01HL-16606-11 Contraction in heart and other striated muscles (frogs)
** P01HL-16607-05 0006 Calcium ion and control of cardiovascular function - Sarcomere and contractile dynamics of striated muscle cells (animals)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-18077-04 Smooth muscle cell organization and Ca20 concentration control (chickens)
** R01HL-18676-03 Myocardial sarcomere mechanics (rat)
R01HL-18900-03 Intercellular factors in function of cardiac cells
R01HL-18943-03 Contractile activity of single cardiac cells
R01HL-19848-02 Contractile activation by rapid temperature jumps (frogs)
R01HL-21145-02 Response of atria to hyperosmolality--Mechanisms (rabbits)
R23HL-21167-02 The electrophysiology of cardiac hypertrophy (rats)
R01HL-21182-02 Active tension and shortening in cardiac hypertrophy (rabbits)
** R01HL-21312-01 Sarcomere mechanics in disrupted ventricular muscle (guinea pigs)
** R23HL-21325-02 Sarcomere kinematics in cardiac contraction (rats, rabbits)

MUSCLE CELLS, SARCOPLASMIC RETICULUM

R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
P01HL-06312-17 0033 Surgical cardiology - Studies in cryopreservations (rats)
R01HL-09234-13 Amino acids of contractile proteins of failing hearts (dogs, hamsters)
R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
P01HL-11351-12 0011 Cellular and molecular mechanisms of myocardial function - Comparative contractile tissue studies (animals)
R01HL-12186-09 Calcium transients in striated muscle and other cells (mammals, frogs)
** R01HL-12486-10 Structure-function correlation in the atrium (rabbits)
R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
** R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
P01HL-14388-07 0153 Regulation of the circulation in pathological states - Subcellular distribution of calcium (rats)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
R01HL-15498-06 Effects of physical training on heart (rats)
R01HL-15764-05 C-AMP dependent protein kinase in cardiac contraction (dogs)
R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
P01HL-15835-06 0009 Study of muscles related to heart disease - Aspects of cardiac and skeletal myogenesis (chick embryo)
P01HL-15835-06 0010 Study of muscles related to heart disease - Muscle structure and reaction to injury (mice, rats)
P01HL-15835-06 0019 Study of muscles related to heart disease - Vascular smooth muscle--Electron microscopy, excitation contraction (animal)
P01HL-15835-06 0021 Study of muscles related to heart disease - Fast kinetic studies in muscle subcellular organelles (animals)
P01HL-15835-06 0023 Study of muscles related to heart disease - Cellular basis of the Frank-Starling curve (frogs, rats)
P01HL-15835-06 0027 Study of muscles related to heart disease - Core II--Intermediate voltage EM of muscle
R01HL-15888-05 Comparative stereology of the myocardium (birds, mammals)
R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
P01HL-16117-05 0001 Ion movements and membranes in cardiovascular control - Developmental studies of contractile cell junctions (rats, rabbits, elasmobranch)
P01HL-16117-05 0002 Ion movements and membranes in cardiovascular control - Fluorescence and excitation-contraction coupling in heart (frogs)
P01HL-16117-05 0003 Ion movements and membranes in cardiovascular control - Fast kinetic study of calcium membrane interactions
P01HL-16117-05 0004 Ion movements and membranes in cardiovascular control - Optical studies of excitation-contraction coupling (frogs, snakes)
R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
R01HL-16233-05 Molecular cardiology of MDP-induced left ventricular failure (dogs)
** P01HL-16607-05 0001 Calcium ion and control of cardiovascular function - Bilayer lipid membranes, antibiotic probes, and SR function
** P01HL-16607-05 0003 Calcium ion and control of cardiovascular function - Calcium transport in sarcoplasmic membranes (animals)
** P01HL-16607-05 0005 Calcium ion and control of cardiovascular function - Chemical modifications of the sarcoplasmic reticulum membranes (rabbits)
** P01HL-16607-05 0007 Calcium ion and control of cardiovascular function - Ultrastructure and conformation in sarcoplasmic reticulum (rabbits)
R01HL-16637-04 Development and regression of cardiac hypertrophy (rats)
R01HL-16706-04 Excitation-contraction coupling and heart failure (dogs, rabbits)
P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
P60HL-17269-04 0007 National heart and blood vessel research and demonstration center - Correlative studies of experimental myocardial ischemia (dog)
** P60HL-17269-04 0019 National heart and blood vessel research and demonstration center - Sarcoplasmic reticulum (dog, rabbit, hamster, cat)
P60HL-17269-04 0021 National heart and blood vessel research and demonstration center - Growth and development of heart--Ultrastructure (dog, guinea pig, rat, cat)
R01HL-17592-03 Activation and contraction heat in enlarged hearts (rabbits)
P50HL-17648-04 0025 Study of ischemic heart disease - Destruction and repair of cardiac muscle cell constituents (rat)
P50HL-17648-04 0031 Study of ischemic heart disease - Ultrastructural consequences of myocardial ischemia (rat)
R01HL-17702-04 Electro-optical dyes as probes of heart excitability
R01HL-18032-03 Development of normal and myopathic mammalian heart (hamsters)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18255-04 Lipid-protein interactions and calcium transport (models)
R01HL-18280-03 Regulation of cardiac contractility and metabolism (rats)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
R01HL-18631-03 Ultrastructural correlates of myocardial ischemia (rats, swine)
** P01HL-18708-03 0004 Oxygen, energy and contractility in cardiac tissue - Structural-functional studies on sarcoplasmic reticulum (rabbits)
P01HL-18708-03 0005 Oxygen, energy and contractility in cardiac tissue - Cytosolic calcium homeostasis and bioenergetics of cardiac tissue (animals)
R01HL-19044-03 Effect of drugs on development of cardiac failure (cats)
R01HL-19138-03 Contractile activation of skinned cardiac cells (mammals)
R01HL-19485-03 Calcium uptake by normal and failed cardiac ATPase (dogs)
P01HL-19737-02 0002 Cellular and molecular aspects of respiratory physiology - Airway smooth muscle in health and disease (human, animals)
R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
** P01HL-20592-02 0013 Cell biology of cardiac and skeletal muscle - Sarcoplasmic reticulum in skinned muscle cells (frogs)
R01HL-20754-02 Anesthetic-induced myocardial depression (rabbits)
R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
R01HL-21030-01 Calcium regulation and hypertension (rats)
R01HL-21145-02 Response of atria to hyperosmolality--Mechanisms (rabbits)
R01HL-21371-02 Energy loss microanalysis of myocardial cations
R01HL-21493-02 Contractility in cardiac failure (hamsters)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
** R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
R01HL-21850-01 Calcium transport in the hypertrophied myocardium (rats, animals)
R01HL-22008-01 Left ventrivular calcium content and contractility (rats)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
** R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)
R01HL-22137-02 Structure-function pathology of isolated heart cells (mice, rats)
R01HL-22361-01 Regulation of cardiac adaptation to exercise (rats)
P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
** P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
R01HL-22685-01 Drugs and excitation-contraction coupling in heart (animals)
R01HL-22813-01 Palmitylcarnitine inhibition of ion pumps in ischemia (dogs)
R01HL-23128-01 Cardiac contractility--Ischemia and hypoxia (rabbits, rats)
R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)
R01HL-23161-01 0002 Biology of myocardial ischemia - Palmitylcarnitine inhibition of ion pumps in myocardial ischemia (dog, sheep)
** R01HL-23161-01 0003 Biology of myocardial ischemia - Phosphorylase coupling to myocardial sarcoplasmic reticulum (dog)
R01HL-23161-01 0004 Biology of myocardial ischemia - Structure of myofibrils and membranes in early ischemia (dogs, rabbit, rodents)
R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
R01HL-23392-01 Membrane binding and transport of calcium and potassium ionophores

MUSCLE CELLS, SARCOSOMES

P50HL-17648-04 0027 Study of ischemic heart disease - Phospholipid metabolism following cardiac injury and repair (rat)
R01HL-20749-01 Developing heart--Biophysical aspects (sheep)

MUSCLE CONTRACTION

SEE MUSCLE FUNCTION, MUSCLE CONTRACTION

MUSCLE FUNCTION

R01HL-05883-18 0003 Reflex control of resistance and capacitance vessels - Cardiac glycosides and sympathetic nerve terminals in vascular smooth muscle
M P01HL-11351-12 Cellular and molecular mechanisms of myocardial function
R01HL-13233-08 Cardiorespiratory control in exercise (human)
** P01HL-14388-07 0175 Regulation of the circulation in pathological states - Functional studies of selected proteins from cardiac muscle
P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
R01HL-16420-02 Effect of training-detraining on the rat heart
P01HL-16607-05 0005 Calcium ion and control of cardiovascular function - Chemical modifications of the sarcoplasmic reticulum membranes (rabbits)
M P01HL-16683-04 Function and growth of cardiac and skeletal muscle
P01HL-17813-04 0007 Lung disease and the oxygenation of blood and tissue - Studies on the function of myoglobin (dogs)
R01HL-18082-03 Erythrocyte phosphates and vertebrate gas transport (amphibians, reptiles)
P50HL-19170-02 0009 Harvard pulmonary SCOR--Chronic diseases of the airways - Ventilatory muscle training in chronic obstructive pulmonary disease (human)
R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
R01HL-22216-02 Vascular mechanisms in renal hypertension (dogs)
R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
** R01HL-22401-01 Regulation of tension and active state in the heart
** R23HL-22975-01 Dynamics of autoregulation of muscle blood flow (dogs)
R01HL-23013-01 Smooth muscle development in vitro (chick embryo)
** R01HL-23239-01 Functional characteristics of pulmonary vascular smooth muscle (dogs)

MUSCLE FUNCTION, ELECTROMYOGRAPHY*

P01HL-14580-07 0003 Program project in respiratory mechanics - Chest wall mechanics and respiratory control (human, dogs)
R01HL-17314-04 Effects of anesthesia and loading on respiration (human, cats)
R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
R23HL-21405-01 Respiratory muscles in regulation of infant breathing (human)

MUSCLE FUNCTION, MUSCLE CONTRACTION

SEE ALSO CARDIOVASCULAR FUNCTION, VASOMOTION
SEE ALSO GASTROINTESTINAL PRESSURE-MOTILITY
SEE ALSO HEART FUNCTION, HEART CONTRACTION
SEE ALSO NEUROMOTOR SYSTEM, NEUROMUSCULAR TRANSMISSION
SEE ALSO RESPIRATORY FUNCTION, BRONCHOMOTION
R01HL-02953-17 Autonomic and cardiovascular pharmacology (rats, rabbits, dogs, guinea pigs)

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**Oriented significantly to above subject.

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** R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
R01HL-05883-18 0002 Reflex control of resistance and capacitance vessels - Adenosine, adenine nucleotides and vascular smooth muscle (dog)
R01HL-05883-18 0007 Reflex control of resistance and capacitance vessels - Prostaglandins and skeletal muscle blood flow (dogs)
** R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
** P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
P01HL-06314-17 0053 Immunologic mechanisms in cardiovascular disease - Cellular functions controlled by cyclic GMP (human, mice, guinea pigs)
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
M P01HL-08682-15 Regulation of the cardiovascular system
** P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
** R01HL-09544-12 Biochemistry of contractile proteins (animals)
P01HL-11351-12 0001 Cellular and molecular mechanisms of myocardial function - Ionic control of myocardial contractility (animals)
** P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
** P01HL-11351-12 0006 Cellular and molecular mechanisms of myocardial function - Molecular physiology and energetics of muscle (frogs)
P01HL-11351-12 0021 Cellular and molecular mechanisms of myocardial function - Muscle energetics (frogs)
** P01HL-11351-12 0022 Cellular and molecular mechanisms of myocardial function - Energetic sequelae of shortening--Myothermal and biochemical (frogs)
** P01HL-11351-12 0023 Cellular and molecular mechanisms of myocardial function - Energetics of mammalian muscle (rats)
** P01HL-11351-12 0024 Cellular and molecular mechanisms of myocardial function - Steady state and transient kinetics of frog myosin, S-1, and ATPase
R01HL-12186-09 Calcium transients in striated muscle and other cells (mammals, frogs)
R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
P50HL-14217-08 0061 Specialized center of research in thrombosis - Pharmacology--Comparison of platelets and vascular smooth muscle (animal)
** P01HL-14388-07 0154 Regulation of the circulation in pathological states - Energetics of smooth muscle contraction (rats)
** P01HL-14388-07 0167 Regulation of the circulation in pathological states - Increased reactivity of artery vascular muscle in spontaneously hypertensive rat
** R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)
P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
** R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-15562-05 Regulation of skeletal muscle blood flow (dogs)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
** R01HL-15692-07 Force and speed in skeletal and cardiac muscle
** P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
M P01HL-15835-06 Study of muscles related to heart disease
** P01HL-15835-06 0001 Study of muscles related to heart disease - Control of contraction-relaxation of heart and muscle (rabbits, chickens)
P01HL-15835-06 0002 Study of muscles related to heart disease - Proteins of smooth muscle system (cattle, rabbits)
P01HL-15835-06 0006 Study of muscles related to heart disease - Ultrastructural and chemical studies of muscle (animals)
** P01HL-15835-06 0007 Study of muscles related to heart disease - Structure and function of Limulus striated and cardiac muscle
P01HL-15835-06 0010 Study of muscles related to heart disease - Muscle structure and reaction to injury (mice, rats)
** P01HL-15835-06 0011 Study of muscles related to heart disease - Energetics and mechanism of muscle contraction (frogs, rabbits)
** P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
P01HL-15835-06 0018 Study of muscles related to heart disease - Pharmacology of excitation coupling in muscle (frog, barnacles)
** P01HL-15835-06 0019 Study of muscles related to heart disease - Vascular smooth muscle-Electron microscopy, excitation contraction (animal)
** P01HL-15835-06 0021 Study of muscles related to heart disease - Fast kinetic studies in muscle subcellular organelles (animals)
R01HL-16003-08 Sources and roles of calcium in smooth muscle excitation (rats)
R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
P01HL-16117-05 0002 Ion movements and membranes in cardiovascular control - Fluorescence and excitation-contraction coupling in heart (frogs)
P01HL-16117-05 0003 Ion movements and membranes in cardiovascular control - Fast kinetic study of calcium membrane interactions
P01HL-16117-05 0006 Ion movements and membranes in cardiovascular control - Neuroreceptors and cellular excitation (fish)
** P01HL-16117-05 0008 Ion movements and membranes in cardiovascular control - Arterial smooth muscle calcium fluxes and contractility (rabbits)
** R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
M P01HL-16607-05 Calcium ion and control of cardiovascular function
P01HL-16607-05 0003 Calcium ion and control of cardiovascular function - Calcium transport in sarcoplasmic membranes (animals)
** P01HL-16607-05 0006 Calcium ion and control of cardiovascular function - Sarcomere and contractile dynamics of striated muscle cells (animals)
** P01HL-16683-04 0001 Function and growth of cardiac and skeletal muscle - Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)
** P01HL-16683-04 0003 Function and growth of cardiac and skeletal muscle - Movements of S-1 moieties in muscle fibers
** P01HL-16683-04 0006 Function and growth of cardiac and skeletal muscle - Chemical studies of the contractile system--Development of new reagents
R01HL-16746-04 Design of ion-selective molecules
P01HL-16910-05 0001 Regulation of the peripheral circulation - Quantitative studies of microcirculatory control (bats)
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
** R01HL-17335-05 Contractile properties of hypertensive arterioles (rats)
** P01HL-17813-04 0006 Lung disease and the oxygenation of blood and tissue - Assessment of respiratory muscle contractile force (human, dogs)
P01HL-17871-04 0010 Kidney, sodium, cardiac output, arterioles and hypertension - Renal prostaglandins metabolism in hypertension (rats, dogs)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18077-04 Smooth muscle cell organization and Ca20 concentration control (chickens)
** R01HL-18516-03 Atherosclerosis and the arterial contractile proteins (pigs, rabbits)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
P01HL-18575-03 0007 Mechanisms of vascular changes in hypertension - Microscopy of hypertensive arterial lesions (rats)
R01HL-18831-03 Microscopy of spontaneously hypertensive arterial lesion (rats)
R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
M P01HL-19242-02 Study of vascular smooth muscle
P01HL-19242-02 0001 Study of vascular smooth muscle - Energy metabolism and protein turnover in vascular smooth muscle (rats)
** P01HL-19242-02 0006 Study of vascular smooth muscle - The contractile system of vascular smooth muscle (swine, rats)
P01HL-19242-02 0009 Study of vascular smooth muscle - Electrophysiology of vascular smooth muscle (rats, chick embryo)
** R01HL-19325-03 Phosphodiesterase inhibition and muscle contraction
R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
** R01HL-19848-02 Contractile activation by rapid temperature jumps (frogs)
** R01HL-20196-02 Regulation of coronary arterial smooth muscle
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
** R01HL-20464-01 Regulation of cardiac and skeletal muscle contraction (mammals)
P01HL-20581-01 0002 Vascular neuroeffector mechanisms in health and disease - Trophic interaction between adrenergic nerves and vascular smooth muscle
P01HL-20581-01 0004 Vascular neuroeffector mechanisms in health and disease - Neuroeffector characteristics of mesenteric and pulmonary blood vessels (rabbits)
M P01HL-20592-02 Cell biology of cardiac and skeletal muscle
** P01HL-20592-02 0001 Cell biology of cardiac and skeletal muscle - Molecular mechanism of muscle contraction (animals)
** P01HL-20592-02 0003 Cell biology of cardiac and skeletal muscle - Cellular magnesium and anion activities in ion-specific microelectrodes (frogs)
** P01HL-20592-02 0004 Cell biology of cardiac and skeletal muscle - Excitation, conduction and contraction--Modelling in Purkinje fibers
** P01HL-20592-02 0005 Cell biology of cardiac and skeletal muscle - Quantitative voltage studies
** P01HL-20592-02 0006 Cell biology of cardiac and skeletal muscle - Permeability and ultrastructure of cardiac nexuses (rabbits, cattle, rats)
** P01HL-20592-02 0011 Cell biology of cardiac and skeletal muscle - Myosin and cytochrome oxidase messenger RNAs (chicken)
** P01HL-20592-02 0012 Cell biology of cardiac and skeletal muscle - Contractile properties of skinned muscle fibers (frogs)
** R01HL-20613-02 Mechanical properties of isolated myocardium
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-20847-02 Respiratory neurochemical control (human, goats)
** R01HL-21103-01 Parametric mechanical studies of hypertensive arteries (dogs, rats)
** R23HL-21213-01 A model for calcium homeostasis in excitable tissue (marine worms)
R01HL-21239-02 Isolation and mechanism of action of thromboxane A2 (human, rabbits)
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
** R23HL-21409-02 Perinatal control of the ductus arteriosus (sheep)
** R23HL-21488-01 Myosin-linked regulation in vertebrate smooth muscle (calf aorta)
** R01HL-21498-02 Pathophysiology of edema (rats, cats)
** R01HL-21500-02 Performance of respiratory muscles under stress (dogs)
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
R01HL-21860-18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)
** R23HL-21914-01 Studies of vasomotor control (rats)
R01HL-22022-01 Respiratory muscle dysfunction in respiratory failure (human)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
** R01HL-22177-02 Mechanisms of control of pulmonary smooth muscle (dogs)
** R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
** R01HL-22461-01 Cardiac tropomyosin and tropomyosin-action interactions (rabbit)
R01HL-22538-01 Myosin as a multi-enzyme complex (dogs, rabbits)
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
** P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)
R23HL-22984-01 Cyclic AMP dependent protein kinases in hypertension (rat)
R01HL-23013-01 Smooth muscle development in vitro (chick embryo)
R13HL-23072-01 Gordon Research Conference--Cardiac and skeletal muscle (New Hampshire)
** R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
** R01HL-23240-01 Pulmonary vascular muscle metabolism and contractility (rats, cattle)
R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)
** R01HL-23614-02 Pharmacology of relaxation in smooth muscle (mollusks)
** R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)
R01HL-23980-01 Effects of digoxin therapy in newborn and adult sheep
** R01HL-23985-01 Role of the diaphragm in regional lung mechanics (dogs)

MUSCLE FUNCTION, MUSCLE RELAXATION

SEE ALSO MUSCLE RELAXANTS

** P01HL-10539-12 0023 Pathophysiology of circulation - The relaxation response and therapy of disease states (human)
P01HL-10539-12 0031 Pathophysiology of circulation - Post myocardial infarction care--Psychological aspects (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-10539-12 0064 Pathophysiology of circulation - Exercise physiology and pathophysiology (human)
** P01HL-10539-12 0065 Pathophysiology of circulation - Physiologic correlates of relaxation (human)
** P01HL-10539-12 0066 Pathophysiology of circulation - Usefulness of relaxation response in industrial settings
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
R01HL-12711-09 Mathematical approach to cardiovascular mechanics (human, animals)
R01HL-14127-16 Methemoglobinemia and antihypertensive drugs (cats, mice, rats)
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
R01HL-16606-11 Contraction in heart and other striated muscles (frogs)
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
** R01HL-19082-01 Hypoxia-induced relaxation of vascular smooth muscle
R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
** R01HL-19568-03 Hypertension--Analysis of drug and behavioral therapies (human)
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
** R01HL-20613-02 Mechanical properties of isolated myocardium
** R23HL-21197-02 Right ventricular contraction and relaxation (dogs)
R01HL-21312-01 Sarcomere mechanics in disrupted ventricular muscle (guinea pigs)
R23HL-21409-02 Perinatal control of the ductus arteriosus (sheep)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
** R01HL-23614-02 Pharmacology of relaxation in smooth muscle (mollusks)
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

MUSCLE FUNCTION, MUSCLE STRESS

R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
P01HL-04664-18 0004 Cardiovascular and lung dynamics - X-ray cross section imaging of the circulation (dogs)
P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
P01HL-11310-12 0054 Mechanisms of cardiovascular disease - Mathematical model of ventricular pressure-volume (human, dogs)
R01HL-11876-11 Regional myocardial blood flow and metabolism (dogs, swine)
P01HL-12373-10 0001 Cardiopulmonary physiology and pathophysiology - Mechanics of myocardial contraction (dogs, rats, swine)
P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Determinants of performance of the whole heart (dogs)
P01HL-13737-07 0007 Assisted circulation - Determination of cardiac status by use of balloon pump (dogs)
R01HL-14545-06 Mechanics of compensatory ventricular hypertrophy (dogs)
** R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
** R01HL-18087-03 Development and regression of cardiac hypertrophy (rats, rabbits)
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
P01HL-20552-02 0004 The development and regression of cardiac hypertrophy - Ventricular function in experimentally induced hypertrophy (hogs, sheep, baboons)
P01HL-20552-02 9002 The development and regression of cardiac hypertrophy - Core B-Biomathematics
R23HL-21234-02 The regulation of cardiac hypertrophy (rabbits)
R01HL-21425-02 Servo-simulated compliance changes--A reversible MI (dogs)
** R01HL-21500-02 Performance of respiratory muscles under stress (dogs)
R01HL-23542-01 Pulmonary vascular smooth muscle cell dynamics (rat, rabbit)

MUSCLE FUNCTION, MUSCLE STRETCH (RECEPTORS)

R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
P01HL-06296-18 0007 Cardiovascular and pulmonary adaptation to stress - Cardiovascular control during isometric exercise (cats)
P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation of renal function (dogs)
P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
** R01HL-13623-08 Atrial receptors (dogs)
P01HL-14388-07 0204 Regulation of the circulation in pathological states - Reflex control of vascular resistance in spontaneously hypertensive rats
P01HL-14414-07 0007 Environmental influences on cardiorespiratory and cellular functions - Neural control of respiration (human, cats)
R01HL-19133-03 Contractile and elastic properties of cardiac muscle (cats)
R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)

MUSCLE FUNCTION, MUSCLE STRETCH REFLEX

SEE ALSO SKELETAL MOVEMENT, POSTURE
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
P01HL-11351-12 0003 Cellular and molecular mechanisms of myocardial function - Mechanical and electrical properties of cardiac muscle (rabbits)
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
** R01HL-13623-08 Atrial receptors (dogs)
P01HL-14414-07 0007 Environmental influences on cardiorespiratory and cellular functions - Neural control of respiration (human, cats)
P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
P01HL-20552-02 0001 The development and regression of cardiac hypertrophy - Biochemical events in cardiac hypertrophy (rats)
** R01HL-23542-01 Pulmonary vascular smooth muscle cell dynamics (rat, rabbit)

MUSCLE FUNCTION, MUSCLE TENSION

P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
** P01HL-08899-14 0040 Tolerance to respiratory gases in health and disease - Metabolic gas influence on brain vascular tissue (animals)
** P01HL-10539-12 0067 Pathophysiology of circulation - Mechanical, electrophysiological studies--Isolated heart muscle (dog, rat)
P01HL-11307-12 0003 Biophysical studies in pediatric cardiology - Cellular biophysics (animals)
P01HL-11310-12 0085 Mechanisms of cardiovascular disease - Mechanics of isolated cardiac muscle (animals)
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
P01HL-14388-07 0173 Regulation of the circulation in pathological states - Mechanisms of cardiac myosin ATPase
R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
P01HL-15835-06 0010 Study of muscles related to heart disease - Muscle structure and reaction to injury (mice, rats)
** P01HL-15835-06 0011 Study of muscles related to heart disease - Energetics and mechanism of muscle contraction (frogs, rabbits)
P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
** P01HL-15835-06 0023 Study of muscles related to heart disease - Cellular basis of the Frank-Starling curve (frogs, rats)
R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
P01HL-16117-05 0005 Ion movements and membranes in cardiovascular control - Properties of isolated cell membranes (rabbits, cats)
R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
P01HL-16683-04 0003 Function and growth of cardiac and skeletal muscle - Movements of S-1 moieties in muscle fibers
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
** R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
** R01HL-17592-03 Activation and contraction heat in enlarged hearts (rabbits)
R01HL-18460-01 Effects of prolonged hypoperfusion on the myocardium (rabbits)
R01HL-18676-03 Myocardial sarcomere mechanics (rat)
R01HL-18900-03 Intercellular factors in function of cardiac cells
R01HL-18943-03 Contractile activity of single cardiac cells
R01HL-19138-03 Contractile activation of skinned cardiac cells (mammals)
R01HL-19226-03 Vascular smooth muscle in hypertension (rats)
P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
R01HL-19848-02 Contractile activation by rapid temperature jumps (frogs)
P01HL-20592-02 0012 Cell biology of cardiac and skeletal muscle - Contractile properties of skinned muscle fibers (frogs)
R01HL-21145-02 Response of atria to hyperosmolality--Mechanisms (rabbits)
** R01HL-21182-02 Active tension and shortening in cardiac hypertrophy (rabbits)
R23HL-21234-02 The regulation of cardiac hypertrophy (rabbits)
R01HL-21312-01 Sarcomere mechanics in disrupted ventricular muscle (guinea pigs)
R23HL-21325-02 Sarcomere kinematics in cardiac contraction (rats, rabbits)
R23HL-21409-02 Perinatal control of the ductus arteriosus (sheep)
R01HL-21922-01 Transient currents induced by strophanthidin in the heart
R01HL-22269-01 Excitation-contraction coupling in enlarged hearts (rabbits)
R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)
R01HL-23240-01 Pulmonary vascular muscle metabolism and contractility (rats, cattle)
R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)
R01HL-23542-01 Pulmonary vascular smooth muscle cell dynamics (rat, rabbit)
** R01HL-23614-02 Pharmacology of relaxation in smooth muscle (mollusks)

MUSCLE FUNCTION, MUSCLE TONE

R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
** P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0198 Regulation of the circulation in pathological states - Humoral factors in vascular reactivity in spontaneously hypertensive rats
** R01HL-15805-06 Cerebral arterial tone and reactivity (rabbits)
P50HL-19156-02 0005 Pulmonary SCOR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
R01HL-19325-03 Phosphodiesterase inhibition and muscle contraction
** P01HL-19737-02 0002 Cellular and molecular aspects of respiratory physiology - Airway smooth muscle in health and disease (human, animals)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-21187-01 Potassium, norepinephrine, and coronary arterial tone (dogs)
P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)
R01HL-22177-02 Mechanisms of control of pulmonary smooth muscle (dogs)
R01HL-22486-01 Enzyme regulation in cultured arterial cells (swine)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
R01HL-23240-01 Pulmonary vascular muscle metabolism and contractility (rats, cattle)
R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)

MUSCLE HYPERTROPHY

P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
P01HL-16387-04 0003 The blood vessel and thrombogenesis - Blood vessel healing (rabbits)
P01HL-16683-04 0001 Function and growth of cardiac and skeletal muscle - Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
R01HL-21312-01 Sarcomere mechanics in disrupted ventricular muscle (guinea pigs)
R01HL-21970-01 Myofibrillar assembly and breakdown in cardiac muscle (rats)

MUSCLE METABOLISM

** R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P50HL-17670-04 0022 Study of ischemic heart disease Myocardial metabolism in hypoxia and recover (rabbit, toad, dog)
P50HL-17670-04 0023 Study of ischemic heart disease Energy metabolism in acute myocardial ischemic injury (dogs)
** P50HL-17682-04 0020 Study of ischemic heart disease Nucleotide and nucleoside metabolism in ischemic myocardium
R01HL-21851-01 Cerebral microcirculation in experimental hypertension (cats, rabbits)
R01HL-21970-01 Myofibrillar assembly and breakdown in cardiac muscle (rats)
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)
R01HL-23161-01 0001 Biology of myocardial ischemia Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)
R01HL-23161-01 0002 Biology of myocardial ischemia - Palmitylcarnitine inhibition of ion pumps in myocardial ischemia (dog, sheep)
R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)
R01HL-23224-01 Hypoxia and pulmonary vascular smooth muscle (rat, cat)
** R01HL-23240-01 Pulmonary vascular muscle metabolism and contractility (rats, cattle)

MUSCLE NECROSIS

SEE MUSCULAR DISORDERS, MUSCLE NECROSIS

MUSCLE PHARMACOLOGY

SEE ALSO MUSCLE METABOLISM
SEE ALSO MUSCULAR DISORDERS CHEMOTHERAPY
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
** R01HL-09283-14 Pharmacology of molluscan hearts (also rabbits)
P01HL-11351-12 0011 Cellular and molecular mechanisms of myocardial function - Comparative contractile tissue studies (animals)
R01HL-12186-09 Calcium transients in striated muscle and other cells (mammals, frogs)
P01HL-14388-07 0178 Regulation of the circulation in pathological states - Structural and functional consequences of denervation (rats)
** P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
** P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
M P01HL-15835-06 Study of muscles related to heart disease
P01HL-15835-06 0009 Study of muscles related to heart disease - Aspects of cardiac and skeletal myogenesis (chick embryo)
P01HL-15835-06 0010 Study of muscles related to heart disease - Muscle structure and reaction to injury (mice, rats)
P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
** P01HL-15835-06 0018 Study of muscles related to heart disease - Pharmacology of excitation coupling in muscle (frog, barnacles)
P01HL-15835-06 0019 Study of muscles related to heart disease - Vascular smooth muscle-Electron microscopy, excitation contraction (animal)
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
R01HL-18676-03 Myocardial sarcomere mechanics (rat)
** R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
R01HL-19226-03 Vascular smooth muscle in hypertension (rats)
M P01HL-19242-02 Study of vascular smooth muscle
** P01HL-19242-02 0004 Study of vascular smooth muscle - Cyclic nucleotide metabolism in smooth muscle cultures (human, rats)
P01HL-19242-02 0007 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (animals)
P01HL-19242-02 0008 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (rats)
P01HL-19242-02 0009 Study of vascular smooth muscle - Electrophysiology of vascular smooth muscle (rats, chick embryo)
** R01HL-20184-02 Desensitization of tracheal muscle to isoproterenol (rats, rabbits)
R01HL-20749-01 Developing heart--Biophysical aspects (sheep)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-21195-02 Innervation of the heart--Acetylcholine receptors (frogs)
R23HL-21325-02 Sarcomere kinematics in cardiac contraction (rats, rabbits)
R01HL-21570-01 The mechanical basis of myocardial energetics (cats)
** R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
P01HL-22619-01 0006 Cellular mechanisms of heart failure Phosphorylation of contractile proteins in cardiac muscle contraction (dogs, rabb
P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
** R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
R01HL-23239-01 Functional characteristics of pulmonary vascular smooth muscle (dogs)
** R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)
R01HL-23542-01 Pulmonary vascular smooth muscle cell dynamics (rat, rabbit)

MUSCLE PROTEINS (AND CONTRACTILE PROTEINS)

SEE ALSO HEMOPROTEINS, MYOGLOBIN
SEE ALSO PROTEINS, MEMBRANE PROTEINS, SPECTRIN
** R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
** P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
** R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
M P01HL-11351-12 Cellular and molecular mechanisms of myocardial function
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
P01HL-11351-12 0006 Cellular and molecular mechanisms of myocardial function - Molecular physiology and energetics of muscle (frogs)
R01HL-12561-11 Cardiovascular studies on copper deficiency (swine)
** P01HL-14388-07 0175 Regulation of the circulation in pathological states - Functional studies of selected proteins from cardiac muscle
** R01HL-15391-07 EPR studies on rotational motion of myosin and actin
** R01HL-15679-06 Heart and smooth muscle contractile protein (swine, cattle, rabbits, chickens)
** R01HL-15692-07 Force and speed in skeletal and cardiac muscle
P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
M P01HL-15835-06 Study of muscles related to heart disease
** P01HL-15835-06 0001 Study of muscles related to heart disease - Control of contraction-relaxation of heart and muscle (rabbits, chickens)
** P01HL-15835-06 0002 Study of muscles related to heart disease - Proteins of smooth muscle system (cattle, rabbits)
** P01HL-15835-06 0006 Study of muscles related to heart disease - Ultrastructural and chemical studies of muscle (animals)
P01HL-15835-06 0010 Study of muscles related to heart disease - Muscle structure and reaction to injury (mice, rats)
** R01HL-16637-04 Development and regression of cardiac hypertrophy (rats)
** R01HL-16678-03 Fluorescent probe studies of heart muscle proteins (rabbit, dog)
M P01HL-16683-04 Function and growth of cardiac and skeletal muscle
R01HL-17376-04 Analysis of Z bands in heart by optical diffraction (mammals)
R01HL-17592-03 Activation and contraction heat in enlarged hearts (rabbits)
R01HL-18077-04 Smooth muscle cell organization and Ca20 concentration control (chickens)
** R01HL-18551-03 Spectrin, actin, lipid and red cell membrane structure
P01HL-18708-03 0008 Oxygen, energy and contractility in cardiac tissue - Cardiac cell culture facility
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
R01HL-19012-03 Smooth muscle of resistance vessels in hypertension (rats)
R01HL-19226-03 Vascular smooth muscle in hypertension (rats)
R01HL-19429-03 Phagocytosis--Ingestion in alveiolar macrophages (rabbits)
** R01HL-19648-03 Myocardial protein degradation (dogs, rabbits)
** R01HL-20666-02 Cell biology of platelet preservation (human)
R01HL-20695-02 Stored plateletes (human)
R01HL-20902-02 Studies on marginal band system of erythrocytes (amphibians, reptiles, fish)
M P01HL-20984-02 Cellular mechanisms in cardiac hypertrophy
** P01HL-20984-02 0001 Cellular mechanisms in cardiac hypertrophy Contractile proteins in cardiac hypertrophy (rabbits, calves)
P01HL-20984-02 9001 Cellular mechanisms in cardiac hypertrophy Animal models and preparation of contractile proteins
R01HL-21096-02 Sickle cell crisis-Role of the erythrocyte membrane (human)
** R23HL-21128-02 ATP utilization in platelet contractile mechanisms (human, rabbits)
R01HL-21469-01 Active transport and effect of CA00 in sickle cell (human)
R01HL-21970-01 Myofibrillar assembly and breakdown in cardiac muscle (rats)
R01HL-21988-01 Biochemistry of human platelet chemotaxis
[illegible] Cardiac energy metabolism and protein synthesis (mice)
R01HL-22550-02 Genetic cardiomyopathies in salamanders and hamsters
M P01HL-22619-01 Cellular mechanisms of heart failure
** P01HL-22619-01 0007 Cellular mechanisms of heart failure - Regulation of contractile protein levels in heart muscle (rats)
** P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
** R01HL-22651-01 Control of protein metabolism in heart muscle
R01HL-23128-01 Cardiac contractility-Ischemia and hypoxia (rabbits, rats)
R01HL-23161-01 0004 Biology of myocardial ischemia - Structure of myofibrils and membranes in early ischemia (dogs, rabbit, rodents)
** R01HL-23233-01 Pulmonary artery intermediate filament structure (cattle)
** R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
** R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)

MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), ACTIN

R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
P01HL-11351-12 0022 Cellular and molecular mechanisms of myocardial function - Energetic sequelae of shortening--Myothermal and biochemical (frogs)
R01HL-14020-06 Characterization of myosin from blood platelets (rabbit)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
R01HL-14938-06 Contractile proteins of heart muscle (dogs, rabbits)
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-15679-06 Heart and smooth muscle contractile protein (swine, cattle, rabbits, chickens)
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
P01HL-15835-06 0001 Study of muscles related to heart disease - Control of contraction-relaxation of heart and muscle (rabbits, chickens)
P01HL-15835-06 0004 Study of muscles related to heart disease - Actomyosin systems and cell motility (slime molds, human)
P01HL-15835-06 0009 Study of muscles related to heart disease - Aspects of cardiac and skeletal myogenesis (chick embryo)
P01HL-15835-06 0025 Study of muscles related to heart disease - Cellular biology of vascular smooth muscle (guinea pig)
R01HL-16678-03 Fluorescent probe studies of heart muscle proteins (rabbit, dog)
P01HL-16683-04 0001 Function and growth of cardiac and skeletal muscle - Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)
** P01HL-16683-04 0002 Function and growth of cardiac and skeletal muscle - Myosin, actin, ATP, interaction in solution
** P01HL-16683-04 0006 Function and growth of cardiac and skeletal muscle - Chemical studies of the contractile system--Development of new reagents
R01HL-18030-04 The role of contractile proteins in platelets (human, rabbits)
R01HL-18077-04 Smooth muscle cell organization and Ca20 concentration control (chickens)
R01HL-18179-03 Heart, platelet, and muscle myosins and actomyosins (cattle)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-18208-04 0007 Center for the study of blood cell rheology RBC membrane protein (human)
R01HL-18516-03 Atherosclerosis and the arterial contractile proteins (pigs, rabbits)
R01HL-18551-03 Spectrin, actin, lipid and red cell membrane structure
P01HL-19242-02 0006 Study of vascular smooth muscle - The contractile system of vascular smooth muscle (swine, rats)
R01HL-19429-03 Phagocytosis--Ingestion in alveiolar macrophages (rabbits)
** R01HL-20106-02 Coupling of platelet contractile proteins to fibrin (human)
R01HL-20464-01 Regulation of cardiac and skeletal muscle contraction (mammals)
R01HL-20666-02 Cell biology of platelet preservation (human)
R01HL-20695-02 Stored plateletes (human)
P01HL-20984-02 0003 Cellular mechanisms in cardiac hypertrophy - Fast-kinetics of myosin ATPase from normal and hypertrophied heart (rabbits)
R23HL-21128-02 ATP utilization in platelet contractile mechanisms (human, rabbits)
R01HL-21469-01 Active transport and effect of CA00 in sickle cell (human)
** R01HL-21471-02 Structure-function studies on actin and myosin (human, protozoa, rabbits, cattle)
R23HL-21488-01 Myosin-linked regulation in vertebrate smooth muscle (calf aorta)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
** R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
** R01HL-22461-01 Cardiac tropomyosin and tropomyosin-action interactions (rabbit)
R01HL-22845-01 Response of cardiac myosin to hypertrophic stress (rabbits)
R01HL-23200-01 Isolation of CA binding proteins from erythrocytes (human)
R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)
** R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)
R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)
R01HL-23994-01 Biochemical properties of human cardiac myosin

MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), ALPHA-ACTININ

R01HL-15679-06 Heart and smooth muscle contractile protein (swine, cattle, rabbits, chickens)

MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), ACTOMYOSIN

** R01HL-01803-23 0017 Arteriosclerosis, glomerulonephritis, rheumatic fever - Contractile and relaxing proteins of blood vessels and platelets (mammals, human)
R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)
R01HL-14020-06 Characterization of myosin from blood platelets (rabbit)
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-15498-06 Effects of physical training on heart (rats)
P01HL-15596-05 0012 Coagulation, fibrinolysis, hemostasis and hepatitis - Platelet function--Phorbol ester and zymosan-induced release activity
R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
** P01HL-15835-06 0004 Study of muscles related to heart disease - Actomyosin systems and cell motility (slime molds, human)
P50HL-17682-04 0024 Study of ischemic heart disease - Phosphorylation of cardiac contractile proteins during ischemia (rat, guinea pig)
** R01HL-18179-03 Heart, platelet, and muscle myosins and actomyosins (cattle)
R01HL-18516-03 Atherosclerosis and the arterial contractile proteins (pigs, rabbits)
** P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
R01HL-20196-02 Regulation of coronary arterial smooth muscle
** P01HL-20592-02 0001 Cell biology of cardiac and skeletal muscle - Molecular mechanism of muscle contraction (animals)
** R01HL-20718-02 Microstructural integrity of stored human platelets
R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
R23HL-21413-02 Structure and function of platelet calcium-binding protein (human)
R01HL-21471-02 Structure-function studies on actin and myosin (human, protozoa, rabbits, cattle)
** R01HL-22194-02 Allosteric function of platelet contractile proteins (human)
R01HL-22401-01 Regulation of tension and active state in the heart
** P01HL-22619-01 0005 Cellular mechanisms of heart failure - Molecular mechanism of regulation of cardiac muscle contraction (cattle)
R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)
R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), MEROMYOSIN

P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
P01HL-15835-06 0006 Study of muscles related to heart disease - Ultrastructural and chemical studies of muscle (animals)
P01HL-15835-06 0009 Study of muscles related to heart disease - Aspects of cardiac and skeletal myogenesis (chick embryo)
R01HL-16678-03 Fluorescent probe studies of heart muscle proteins (rabbit, dog)
P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)

MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), MYOSIN

SEE ALSO PHOSPHATASES, ADENOSINE TRIPHOSPHATASE
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
** R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
R01HL-09544-12 Biochemistry of contractile proteins (animals)
R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
P01HL-11351-12 0006 Cellular and molecular mechanisms of myocardial function - Molecular physiology and energetics of muscle (frogs)
** P01HL-11351-12 0024 Cellular and molecular mechanisms of myocardial function - Steady state and transient kinetics of frog myosin, S-1, and ATPase
R01HL-13831-08 Factors regulating embryonic cardiac morphogenesis (chick, salamandra)
R01HL-14020-06 Characterization of myosin from blood platelets (rabbit)
** P50HL-14212-07 0007 Correlated studies of pulmonary fibrosis - Protein metabolism in alveolar macrophages (rabbits, guinea pigs, human)
** P01HL-14388-07 0173 Regulation of the circulation in pathological states - Mechanisms of cardiac myosin ATPase
R01HL-14938-06 Contractile proteins of heart muscle (dogs, rabbits)
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-15498-06 Effects of physical training on heart (rats)
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
P01HL-15835-06 0001 Study of muscles related to heart disease - Control of contraction-relaxation of heart and muscle (rabbits, chickens)
** P01HL-15835-06 0002 Study of muscles related to heart disease - Proteins of smooth muscle system (cattle, rabbits)
P01HL-15835-06 0004 Study of muscles related to heart disease - Actomyosin systems and cell motility (slime molds, human)
** P01HL-15835-06 0006 Study of muscles related to heart disease - Ultrastructural and chemical studies of muscle (animals)
P01HL-15835-06 0007 Study of muscles related to heart disease - Structure and function of Limulus striated and cardiac muscle
P01HL-15835-06 0009 Study of muscles related to heart disease - Aspects of cardiac and skeletal myogenesis (chick embryo)
P01HL-15835-06 0010 Study of muscles related to heart disease - Muscle structure and reaction to injury (mice, rats)
P01HL-15835-06 0025 Study of muscles related to heart disease - Cellular biology of vascular smooth muscle (guinea pig)
** P01HL-16683-04 0001 Function and growth of cardiac and skeletal muscle - Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)
** P01HL-16683-04 0002 Function and growth of cardiac and skeletal muscle - Myosin, actin, ATP, interaction in solution
** P01HL-16683-04 0003 Function and growth of cardiac and skeletal muscle - Movements of S-1 moieties in muscle fibers
** P01HL-16683-04 0006 Function and growth of cardiac and skeletal muscle - Chemical studies of the contractile system--Development of new reagents
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
P60HL-17269-04 0007 National heart and blood vessel research and demonstration center - Correlative studies of experimental myocardial ischemia (dog)
R01HL-17592-03 Activation and contraction heat in enlarged hearts (rabbits)
R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
P50HL-17648-04 0025 Study of ischemic heart disease - Destruction and repair of cardiac muscle cell constituents (rat)
P50HL-17648-04 0026 Study of ischemic heart disease - Control of muscle cell proliferation (organ culture)
** P50HL-17665-04 0011 Study of ischemic heart disease - Development of new methods for the determination of infarct size (dog, human)
P50HL-17665-04 0028 Study of ischemic heart disease - Pathologic and biochemical studies of ischemic myocardium (human, dog)
** P50HL-17665-04 0032 Study of ischemic heart disease - Myocardial infarct sizing--Immunoassay for cardiac myosin light chains (dogs)
** P50HL-17669-04 0002 Ischemic heart disease center (SCOR) - Myocardial infarction sizing by radioimmunoassay of cardiac myosin (dogs)
R01HL-18030-04 The role of contractile proteins in platelets (human, rabbits)
R01HL-18077-04 Smooth muscle cell organization and Ca20 concentration control (chickens)
R01HL-18176-02 Effect of thyroid hormone on cultured cardiac cells (rats)
** R01HL-18179-03 Heart, platelet, and muscle myosins and actomyosins (cattle)
R01HL-18516-03 Atherosclerosis and the arterial contractile proteins (pigs, rabbits)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
P01HL-19242-02 0006 Study of vascular smooth muscle - The contractile system of vascular smooth muscle (swine, rats)
R01HL-19425-03 Cardiac function in hypertrophy (dog)
R01HL-19429-03 Phagocytosis--Ingestion in alveiolar macrophages (rabbits)
R01HL-19461-03 Myocardial energetics in hypertrophy and heart failure (rabbits)
** R01HL-20106-02 Coupling of platelet contractile proteins to fibrin (human)
R01HL-20388-03 Regulation of protein turnover in diabetic heart (rat)
R01HL-20464-01 Regulation of cardiac and skeletal muscle contraction (mammals)
P01HL-20592-02 0001 Cell biology of cardiac and skeletal muscle - Molecular mechanism of muscle contraction (animals)
** P01HL-20592-02 0011 Cell biology of cardiac and skeletal muscle - Myosin and cytochrome oxidase messenger RNAs (chicken)
R01HL-20666-02 Cell biology of platelet preservation (human)
P01HL-20984-02 0001 Cellular mechanisms in cardiac hypertrophy - Contractile proteins in cardiac hypertrophy (rabbits, calves)
** P01HL-20984-02 0002 Cellular mechanisms in cardiac hypertrophy - Thermodynamic, fluorescence, chemical modification of hypertrophied heart myosin
** P01HL-20984-02 0003 Cellular mechanisms in cardiac hypertrophy - Fast-kinetics of myosin ATPase from normal and hypertrophied heart (rabbits)
R23HL-21128-02 ATP utilization in platelet contractile mechanisms (human, rabbits)
** R23HL-21234-02 The regulation of cardiac hypertrophy (rabbits)
** R01HL-21471-02 Structure-function studies on actin and myosin (human, protozoa, rabbits, cattle)
** R23HL-21488-01 Myosin-linked regulation in vertebrate smooth muscle (calf aorta)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
M R01HL-21751-02 Thallium and antimyosin in ischemia and infarction
R01HL-21751-02 0001 Thallium and antimyosin in ischemia and infarction - In vitro models of ischemia and infarction (rats, mice)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction
R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies--Ischemia and infarction
** R01HL-21820-01 Regulatory role of myosin in cardiac hypertrophy (dogs)
R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
** R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
R01HL-22361-01 Regulation of cardiac adaptation to exercise (rats)
** R01HL-22401-01 Regulation of tension and active state in the heart
** R01HL-22538-01 Myosin as a multi-enzyme complex (dogs, rabbits)
** P01HL-22619-01 0006 Cellular mechanisms of heart failure - Phosphorylation of contractile proteins in cardiac muscle contraction (dogs, rabb
P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
** R01HL-22845-01 Response of cardiac myosin to hypertrophic stress (rabbits)
R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)
R01HL-23232-01 Effect of hypoxia on PVSM and its precursor cells
** R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)
R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses
** R01HL-23994-01 Biochemical properties of human cardiac myosin

MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), PARAMYOSIN

** P01HL-15835-06 0007 Study of muscles related to heart disease - Structure and function of Limulus striated and cardiac muscle

MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), TROPOMYOSIN

SEE ALSO MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), TROPONIN

** R01HL-01803-23 0017 Arteriosclerosis, glomerulonephritis, rheumatic fever - Contractile and relaxing proteins of blood vessels and platelets (mammals, human)
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
R01HL-09544-12 Biochemistry of contractile proteins (animals)
R01HL-14938-06 Contractile proteins of heart muscle (dogs, rabbits)
R01HL-15679-06 Heart and smooth muscle contractile protein (swine, cattle, rabbits, chickens)
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
P01HL-15835-06 0001 Study of muscles related to heart disease - Control of contraction-relaxation of heart and muscle (rabbits, chickens)
P01HL-15835-06 0009 Study of muscles related to heart disease - Aspects of cardiac and skeletal myogenesis (chick embryo)
R01HL-16678-03 Fluorescent probe studies of heart muscle proteins (rabbit, dog)
R01HL-16706-04 Excitation-contraction coupling and heart failure (dogs, rabbits)
R01HL-18030-04 The role of contractile proteins in platelets (human, rabbits)
R01HL-18077-04 Smooth muscle cell organization and Ca20 concentration control (chickens)
** R01HL-18612-03 Thin filament control of heart contraction (cattle)
R01HL-20464-01 Regulation of cardiac and skeletal muscle contraction (mammals)
R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
** R01HL-22461-01 Cardiac tropomyosin and tropomyosin-action interactions (rabbit)
R01HL-22651-01 Control of protein metabolism in heart muscle
R01HL-23200-01 Isolation of CA binding proteins from erythrocytes (human)
R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)
R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)

MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), TROPONIN

R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
R01HL-09544-12 Biochemistry of contractile proteins (animals)
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function Molecular mechanisms of contractile function and differentiation (animals)
R01HL-14938-06 Contractile proteins of heart muscle (dogs, rabbits)
R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
P01HL-15835-06 0001 Study of muscles related to heart disease - Control of contraction-relaxation of heart and muscle (rabbits, chickens)
R01HL-16678-03 Fluorescent probe studies of heart muscle proteins (rabbit, dog)
R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
** P50HL-17682-04 0024 Study of ischemic heart disease - Phosphorylation of cardiac contractile proteins during ischemia (rat, guinea pig)
R01HL-18280-03 Regulation of cardiac contractility and metabolism (rats)
** R01HL-18612-03 Thin filament control of heart contraction (cattle)
** R01HL-20464-01 Regulation of cardiac and skeletal muscle contraction (mammals)
R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
R23HL-21413-02 Structure and function of platelet calcium-binding protein (human)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
R01HL-22461-01 Cardiac tropomyosin and tropomyosin-action interactions (rabbit)
** P01HL-22619-01 0005 Cellular mechanisms of heart failure - Molecular mechanism of regulation of cardiac muscle contraction (cattle)
** P01HL-22619-01 0006 Cellular mechanisms of heart failure - Phosphorylation of contractile proteins in cardiac muscle contraction (dogs, rabb
** P01HL-22619-01 0007 Cellular mechanisms of heart failure - Regulation of contractile protein levels in heart muscle (rats)
R01HL-22651-01 Control of protein metabolism in heart muscle
R01HL-23200-01 Isolation of CA binding proteins from erythrocytes (human)
R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

MUSCLE RELAXANTS

P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
P01HL-06664-17 0010 Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
** P01HL-07896-15 0056 Environmental biomedical research program - Neuromuscular blocking effects of nondepolarizing muscular relaxants (frogs)
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
P01HL-12738-10 0109 Physiologic pharmacology and its clinical applications - Effects of calcium blockers on skeletal and cardiac muscle (cats)
P50HL-14187-07 0012 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
R01HL-14903-07 A new index of cardiac contractility (human, dogs, baboons)
R01HL-15764-05 C-AMP dependent protein kinase in cardiac contraction (dogs)
P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
R01HL-16436-04 Role of calcium and thyroxine in heart function (rats)
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
R01HL-17796-04 Importance of aminosugars in digitalis activity (cats, rabbits)
R01HL-18260-04 Cyclic nucleotide metabolism in lung tissue (cattle)
R01HL-18517-03 Intrinsic innervation of the heart (dogs)
R01HL-20613-02 Mechanical properties of isolated myocardium
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
** R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
R23HL-21325-02 Sarcomere kinematics in cardiac contraction (rats, rabbits)
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
R01HL-21570-01 The mechanical basis of myocardial energetics (cats)
R01HL-22136-02 Histamine and cardiac adenyl cyclase
R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
R01HL-22269-01 Excitation-contraction coupling in enlarged hearts (rabbits)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors
P01HL-22619-01 0006 Cellular mechanisms of heart failure - Phosphorylation of contractile proteins in cardiac muscle contraction (dogs, rabb
R01HL-22685-01 Drugs and excitation-contraction coupling in heart (animals)
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)
R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

MUSCLE RELAXANTS, ANTISPASMODICS

R01HL-20184-02 Desensitization of tracheal muscle to isoproterenol (rats, rabbits)

MUSCLE RELAXANTS, NEUROMUSCULAR BLOCKING AGENTS

** P01HL-07896-15 0056 Environmental biomedical research program - Neuromuscular blocking effects of nondepolarizing muscular relaxants (frogs)
R23HL-21405-01 Respiratory muscles in regulation of infant breathing (human)
R01HL-23614-02 Pharmacology of relaxation in smooth muscle (mollusks)

MUSCLE RELAXANTS, NEUROMUSCULAR BLOCKING AGENTS DEPOLARIZING

** R01HL-17452-04 Depolarization induced cardiac automaticity (human, animals)

MUSCLE RELAXATION

SEE MUSCLE FUNCTION, MUSCLE RELAXATION

MUSCLE STIMULANTS

P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
P01HL-06664-17 0034 Cardiopulmonary function in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
P01HL-11307-12 0003 Biophysical studies in pediatric cardiology - Cellular biophysics (animals)
P01HL-11310-12 0068 Mechanisms of cardiovascular disease - Pharmacological intervention and myocardial oxygen consuption (human, dogs)
P01HL-11310-12 0086 Mechanisms of cardiovascular disease - Mechanics of the intact left ventricle (dogs)
P01HL-11351-12 0010 Cellular and molecular mechanisms of myocardial function - Basic ionic exchange studies (rats)
P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
R01HL-12774-08 Ionic coupling in activation of cardiac muscle (frogs, guinea pigs)
R01HL-13639-07 Factors altering the course of myocardial dysfunction (cats)
R01HL-14545-06 Mechanics of compensatory ventricular hypertrophy (dogs)
R01HL-14903-07 A new index of cardiac contractility (human, dogs, baboons)
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-15758-06 Catecholamine release in the heart (dogs)
P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
** R01HL-15991-05 Evaluation of heart stimulants in sea anemones
** R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
P01HL-16117-05 0005 Ion movements and membranes in cardiovascular control - Properties of isolated cell membranes (rabbits, cats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-16117-05 0007 Ion movements and membranes in cardiovascular control - Physiological and molecular properties of ionophores (dogs, rabbits)
R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
R01HL-16240-05 The cardiac histamine receptor (rabbits, guinea pigs)
** R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)
P01HL-16607-05 0003 Calcium ion and control of cardiovascular function - Calcium transport in sarcoplasmic membranes (animals)
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
P60HL-17269-04 0022 National heart and blood vessel research and demonstration center - Medicinal chemistry (rabbit, dog, guinea pig)
P60HL-17269-04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat)
P60HL-17269-04 0024 National heart and blood vessel research and demonstration center - Section of experimental cardiovascular surgery--Core facility
R01HL-17459-03 Myocardial ischemia (dogs)
R01HL-17555-05 Distribution and metabolism of labeled digitaloids (dogs, guinea pigs)
R01HL-17629-03 Oevelopmental aspects of cardiovascular function (human, cats, rabbits)
R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
R01HL-17796-04 Importance of aminosugars in digitalis activity (cats, rabbits)
R01HL-17993-04 0007 Ventricular dynamics from surgically inserted markers - Oigitalis after coronary artery surgery (human)
R01HL-18260-04 Cyclic nucleotide metabolism in lung tissue (cattle)
R01HL-18280-03 Regulation of cardiac contractility and metabolism (rats)
R01HL-18517-03 Intrinsic innervation of the heart (dogs)
R01HL-18598-03 Role of Na, K-ATPase inhibition on digitalis action
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
R01HL-18933-03 Energy output and efficiency of left ventricle (dog)
R01HL-19133-03 Contractile and elastic properties of cardiac muscle (cats)
R01HL-19423-03 Catecholamine action on the heart (cats, rats)
R01HL-19487-03 Cardiac actions of digitalis (dogs, cats)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
R01HL-20613-02 Mechanical properties of isolated myocardium
R01HL-20749-01 Oeveloping heart--Biophysical aspects (sheep)
** R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides
R01HL-21182-02 Active tension and shortening in cardiac hypertrophy (rabbits)
R23HL-21325-02 Sarcomere kinematics in cardiac contraction (rats, rabbits)
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
R23HL-21409-02 Perinatal control of the ductus arteriosus (sheep)
R01HL-21457-01 C(17)-side group geometry and cardenolide activity (cats, guinea pigs)
R01HL-21570-01 The mechanical basis of myocardial energetics (cats)
R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)
R01HL-22136-02 Histamine and cardiac adenyl cyclase
R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
R01HL-22269-01 Excitation-contraction coupling in enlarged hearts (rabbits)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
M P01HL-22619-01 Cellular mechanisms of heart failure
** P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
P01HL-22619-01 0006 Cellular mechanisms of heart failure - Phosphorylation of contractile proteins in cardiac muscle contraction (dogs, rabb
R01HL-22685-01 Orugs and excitation-contraction coupling in heart (animals)
R01HL-22778-01 Total synthesis of natural cardiotonic ionophores
R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

MUSCLE STRESS

SEE MUSCLE FUNCTION, MUSCLE STRESS

MUSCLE STRETCH RECEPTORS

SEE MUSCLE FUNCTION, MUSCLE STRETCH (RECEPTORS)

MUSCLE STRETCH REFLEX

SEE MUSCLE FUNCTION, MUSCLE STRETCH REFLEX

MUSCLE TENSION

SEE MUSCLE FUNCTION, MUSCLE TENSION

MUSCLE TONE

SEE MUSCLE FUNCTION, MUSCLE TONE

MUSCLES

SEE ALSO HEART, MYOCAROIUM
SEE ALSO HEART, PAPILLARY MUSCLES
SEE ALSO RESPIRATORY MUSCLES
R01HL-14785-07 Ultrasonic scattering for tissue characterization (dogs, cattle, human)
** P01HL-15835-06 0027 Study of muscles related to heart disease - Core II--Intermediate voltage EM of muscle
R01HL-17080-05 Localization of pore systems in capillary walls (rats, mice, rabbits)
** R01HL-18489-03 Hemodynamic interactions of vasoactive chemicals (rats)
** R01HL-19008-02 Carbon dioxide diffusion in lung and muscle tissues (dogs)
P01HL-19737-02 0008 Cellular and molecular aspects of respiratory physiology - Kinetics of movement of acid metabolites from cell to capillary blood (dogs)
R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)
R01HL-22506-01 Hemodynamics of the clinical hypertensions

MUSCLES, MYOFIBRILS

R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
P01HL-11310-12 0085 Mechanisms of cardiovascular disease - Mechanics of isolated cardiac muscle (animals)
P01HL-11351-12 0003 Cellular and molecular mechanisms of myocardial function - Mechanical and electrical properties of cardiac muscle (rabbits)
P01HL-11351-12 0006 Cellular and molecular mechanisms of myocardial function - Molecular physiology and energetics of muscle (frogs)
P01HL-11351-12 0019 Cellular and molecular mechanisms of myocardial function - Mechano-chemical kinetics of small perturbations
R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)
R01HL-13454-08 Behavioral stress and cardiomyopathy (monkeys, cats)
R01HL-13831-08 Factors regulating embryonic cardiac morphogenesis (chick, salamandra)
P01HL-14388-07 0173 Regulation of the circulation in pathological states - Mechanisms of cardiac myosin ATPase
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-15679-06 Heart and smooth muscle contractile protein (swine, cattle, rabbits, chickens)
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
P01HL-15835-06 0002 Study of muscles related to heart disease - Proteins of smooth muscle system (cattle, rabbits)
P01HL-15835-06 0006 Study of muscles related to heart disease - Ultrastructural and chemical studies of muscle (animals)
P01HL-15835-06 0007 Study of muscles related to heart disease - Structure and function of Limulus striated and cardiac muscle
P01HL-15835-06 0009 Study of muscles related to heart disease - Aspects of cardiac and skeletal myogenesis (chick embryo)
P01HL-15835-06 0010 Study of muscles related to heart disease - Muscle structure and reaction to injury (mice, rats)
P01HL-15835-06 0019 Study of muscles related to heart disease - Vascular smooth muscle--Electron microscopy, excitation contraction (animal)
P01HL-15835-06 0025 Study of muscles related to heart disease - Cellular biology of vascular smooth muscle (guinea pig)
R01HL-15888-05 Comparative stereology of the myocardium (birds, mammals)
P01HL-16117-05 0002 Ion movements and membranes in cardiovascular control - Fluorescence and excitation-contraction coupling in heart (frogs)
R01HL-16606-11 Contraction in heart and other striated muscles (frogs)
R01HL-16637-04 Oevelopment and regression of cardiac hypertrophy (rats)
P01HL-16683-04 0001 Function and growth of cardiac and skeletal muscle - Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)
** P01HL-16683-04 0003 Function and growth of cardiac and skeletal muscle - Movements of S-1 moieties in muscle fibers
R01HL-17376-04 Analysis of Z bands in heart by optical diffraction (mammals)
** P50HL-17648-04 0025 Study of ischemic heart disease - Oestruction and repair of cardiac muscle cell constituents (rat)
P50HL-17648-04 0026 Study of ischemic heart disease - Control of muscle cell proliferation (organ culture)
P50HL-17648-04 0031 Study of ischemic heart disease - Ultrastructural consequences of myocardial ischemia (rat)
P50HL-17682-04 0024 Study of ischemic heart disease - Phosphorylation of cardiac contractile proteins during ischemia (rat, guinea pig)
R01HL-17998-04 Regulatory mechanisms in blood circulation (dogs)
R01HL-18032-03 Oevelopment of normal and myopathic mammalian heart (hamsters)
R01HL-18077-04 Smooth muscle cell organization and Ca20 concentration control (chickens)
R01HL-18087-03 Oevelopment and regression of cardiac hypertrophy (rats, rabbits)
R01HL-18145-03 Oxygen transport mechanisms in hypoxia (dogs, rats, rabbits)
R01HL-18612-03 Thin filament control of heart contraction (cattle)
R01HL-18631-03 Ultrastructural correlates of myocardial ischemia (rats, swine)
P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
R01HL-19138-03 Contractile activation of skinned cardiac cells (mammals)
R01HL-19275-03 Characterization of collateral blood vessels (dogs)
** R01HL-20273-02 Cardiac fiber direction and the QRS complex (dogs)
P01HL-20592-02 0001 Cell biology of cardiac and skeletal muscle - Molecular mechanism of muscle contraction (animals)
P01HL-20592-02 0011 Cell biology of cardiac and skeletal muscle - Myosin and cytochrome oxidase messenger RNAs (chicken)
** P01HL-20592-02 0012 Cell biology of cardiac and skeletal muscle - Contractile properties of skinned muscle fibers (frogs)
** P01HL-20984-02 0004 Cellular mechanisms in cardiac hypertrophy - Myofibril accumulation in cardiac and vascular muscle cells in hypertrophy
R23HL-21325-02 Sarcomere kinematics in cardiac contraction (rats, rabbits)
R01HL-21493-02 Contractility in cardiac failure (hamsters)
R01HL-21500-02 Performance of respiratory muscles under stress (dogs)
** R01HL-21970-01 Myofibrillar assembly and breakdown in cardiac muscle (rats)
R01HL-21993-01 Hypertensive hypertrophy--Effects of cardiac mechanics (rats)
** R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
R01HL-22290-01 Cardiac energy metabolism and protein synthesis (mice)
R01HL-22538-01 Myosin as a multi-enzyme complex (dogs, rabbits)
R01HL-22550-02 Genetic cardiomyopathies in salamanders and hamsters
P01HL-22619-01 0005 Cellular mechanisms of heart failure - Molecular mechanism of regulation of cardiac muscle contraction (cattle)
P01HL-22619-01 0006 Cellular mechanisms of heart failure - Phosphorylation of contractile proteins in cardiac muscle contraction (dogs, rabb
P01HL-22619-01 0007 Cellular mechanisms of heart failure - Regulation of contractile protein levels in heart muscle (rats)
R01HL-22651-01 Control of protein metabolism in heart muscle
R01HL-23128-01 Cardiac contractility--Ischemia and hypoxia (rabbits, rats)
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)
R01HL-23161-01 0001 Biology of myocardial ischemia - Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)
** R01HL-23161-01 0004 Biology of myocardial ischemia - Structure of myofibrils and membranes in early ischemia (dogs, rabbit, rodents)
R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)
R01HL-23233-01 Pulmonary artery intermediate filament structure (cattle)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-23614-02 Pharmacology of relaxation in smooth muscle (mollusks)
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

MUSCLES, MYOGENESIS

P01HL-06285-18 0179 Cardiovascular-respiratory physiology and biochemistry - Regulation of myocardial cell growth (rats, chick embryo)
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
P01HL-11310-12 0089 Mechanisms of cardiovascular disease - Structure and function in myocardial contraction (dogs)
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
P01HL-11351-12 0011 Cellular and molecular mechanisms of myocardial function - Comparative contractile tissue studies (animals)
P01HL-12157-11 0055 Functions and mechanisms of cell membrane ion transport - Growth and development of synthetic strand heart cells in culture (chick embryo)
** P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
** R01HL-13831-08 Factors regulating embryonic cardiac morphogenesis (chick, salamandra)
** P01HL-15835-06 0009 Study of muscles related to heart disease - Aspects of cardiac and skeletal myogenesis (chick embryo)
P01HL-15835-06 0010 Study of muscles related to heart disease - Muscle structure and reaction to injury (mice, rats)
P01HL-15835-06 0019 Study of muscles related to heart disease - Vascular smooth muscle--Electron microscopy, excitation contraction (animal)
P01HL-15835-06 0025 Study of muscles related to heart disease - Cellular biology of vascular smooth muscle (guinea pig)
** R01HL-18032-03 Development of normal and myopathic mammalian heart (hamsters)
P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
P01HL-20592-02 0011 Cell biology of cardiac and skeletal muscle - Myosin and cytochrome oxidase messenger RNAs (chicken)
** R01HL-22550-02 Genetic cardiomyopathies in salamanders and hamsters
** R01HL-22859-01 Effect of carbon monoxide on the developing heart (rats)
** R23HL-22959-01 Heart development in inherited cardiomyopathy (hamsters)
** R01HL-23013-01 Smooth muscle development in vitro (chick embryo)
R01HL-23232-01 Effect of hypoxia on PVSM and its precursor cells

MUSCLES, SARCOLEMMA

P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
R01HL-09234-13 Amino acids of contractile proteins of failing hearts (dogs, hamsters)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
P01HL-11351-12 0001 Cellular and molecular mechanisms of myocardial function - Ionic control of myocardial contractility (animals)
R01HL-12774-08 Ionic coupling in activation of cardiac muscle (frogs, guinea pigs)
R01HL-15498-06 Effects of physical training on heart (rats)
P01HL-15835-06 0021 Study of muscles related to heart disease - Fast kinetic studies in muscle subcellular organelles (animals)
** P01HL-16117-05 0005 Ion movements and membranes in cardiovascular control - Properties of isolated cell membranes (rabbits, cats)
P50HL-17670-04 0023 Study of ischemic heart disease - Energy metabolism in acute myocardial ischemic injury (dogs)
R01HL-17702-04 Electro-optical dyes as probes of heart excitability
R01HL-18032-03 Development of normal and myopathic mammalian heart (hamsters)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18629-04 Influence of aging and hypertension on the myocardium (rats)
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
R01HL-19138-03 Contractile activation of skinned cardiac cells (mammals)
R01HL-19139-03 Dispersion of diffusible indicators in the body (human, cats, dogs)
R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R01HL-21371-02 Energy loss microanalysis of myocardial cations
R01HL-21493-02 Contractility in cardiac failure (hamsters)
R23HL-21783-01 Ionic control of contractility in anoxic myocardium (rabbits, rats)
R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
R01HL-22685-01 Drugs and excitation-contraction coupling in heart (animals)
R01HL-22813-01 Palmitylcarnitine inhibition of ion pumps in ischemia (dogs)
R01HL-23013-01 Smooth muscle development in vitro (chick embryo)
R01HL-23128-01 Cardiac contractility--Ischemia and hypoxia (rabbits, rats)
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)
R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)
R01HL-23161-01 0001 Biology of myocardial ischemia - Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)
R01HL-23161-01 0002 Biology of myocardial ischemia - Palmitylcarnitine inhibition of ion pumps in myocardial ischemia (dog, sheep)

MUSCLES, SMOOTH MUSCLE

SEE ALSO MUSCLE CELLS, MYOEPITHELIAL CELLS
SEE ALSO SLOW REACTING SUBSTANCES
R01HL-01803-23 0017 Arteriosclerosis, glomerulonephritis, rheumatic fever - Contractile and relaxing proteins of blood vessels and platelets (mammals, human)
R01HL-01803-23 0020 Arteriosclerosis, glomerulonephritis, rheumatic fever - Virus-induced arteriosclerosis (chickens)
P01HL-03174-23 0001 Mechanisms of acute vascular reaction to injury - Response of the vascular intima to injury (human, rats)
** R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
R01HL-05883-18 0002 Reflex control of resistance and capacitance vessels - Adenosine, adenine nucleotides and vascular smooth muscle (dog)
R01HL-05883-18 0003 Reflex control of resistance and capacitance vessels - Cardiac glycosides and sympathetic nerve terminals in vascular smooth muscle
P01HL-06285-18 0136 Cardiovascular-respiratory physiology and biochemistry - Fetal microcirculation in utero (rabbits, lambs)
P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
P01HL-06314-17 0053 Immunologic mechanisms in cardiovascular disease - Cellular functions controlled by cyclic GMP (human, mice, guinea pigs)
P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)
P01HL-06835-17 0055 Cardiovascular disease - Vascular and adrenocortical response to angiotensin II (dogs)
P01HL-06835-17 0056 Cardiovascular disease - Angiotensin analogs--Sarcosine on arterial pressure, aldosterone (dogs)
R01HL-07723-15 Reflex control of vascular capacitance in shock
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
** P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
P01HL-08899-14 0040 Tolerance to respiratory gases in health and disease - Metabolic gas influence on brain vascular tissue (animals)
R01HL-09544-12 Biochemistry of contractile proteins (animals)
P01HL-11351-12 0011 Cellular and molecular mechanisms of myocardial function - Comparative contractile tissue studies (animals)
P01HL-11414-11 0037 Thrombosis and atherosclerosis program - Vascular intimal injury and healing (rabbits, rats)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
P01HL-13262-07 0012 Arterial wall in atherosclerosis - Characterization of connective tissue components (animals)
P01HL-13262-07 0023 Arterial wall in atherosclerosis - Isolation and characterization of soluble elastin
P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
R01HL-13909-27 Physiochemistry and immunology of macromolecules
P50HL-14138-05 0015 Center for research on atherosclerosis - Arterial wall-intermediary metabolism, enzyme activity and bioenergetics
P50HL-14147-08 0012 Specialized center of research in thrombosis - Tissue culture study of arterial cells (human, hamster)
P50HL-14153-07 0013 Johns Hopkins Lung Center - Chronic diseases of airways - Pulmonary mechanics and mediators of allergic reactions (guinea pigs, human)
** P50HL-14164-07 0035 A/S SCOR - Comparative and experimental atherosclerosis - Lipid metabolism - Interaction with arterial metabolism (monkey, pigeon)
** P50HL-14164-07 0036 A/S SCOR - Comparative and experimental atherosclerosis - Connective tissue metabolism - Interaction with arterial metabolism (monkeys)
** P50HL-14217-08 0061 Specialized center of research in thrombosis - Pharmacology--Comparison of platelets and vascular smooth muscle (animal)
P50HL-14230-07 0095 A/S SCOR--Lipids, atherosclerosis and thrombosis - Blood platelet adherence to endothelial smooth muscle cells, fibroblast (human)
P50HL-14230-07 9002 A/S SCOR--Lipids, atherosclerosis and thrombosis - Core tissue culture laboratory
P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
** P01HL 14388-07 0153 Regulation of the circulation in pathological states - Subcellular distribution of calcium (rats)
** P01HL-14388-07 0154 Regulation of the circulation in pathological states - Energetics of smooth muscle contraction (rats)
P01HL-14388-07 0158 Regulation of the circulation in pathological states - Developmental aspect of abnormal vascular reactivity (rats)
** P01HL-14388-07 0167 Regulation of the circulation in pathological states - Increased reactivity of artery vascular muscle in spontaneously hypertensive rat
P01HL-14388-07 0168 Regulation of the circulation in pathological states - Ionic basis of depolarization (rats, tissue culture)
** P01HL-14388-07 0172 Regulation of the circulation in pathological states - cAMP-dependent protein kinase from heart and vascular smooth muscle (guinea pigs)
** P01HL-14388-07 0178 Regulation of the circulation in pathological states - Structural and functional consequences of denervation (rats)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0198 Regulation of the circulation in pathological states - Humoral factors in vascular reactivity in spontaneously hypertensive rats
P01HL-14388-07 0199 Regulation of the circulation in pathological states - Adrenergic stimulation in spontaneously hypertensive rats
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
** R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)
P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
** R01HL-14775-08 Mechanisms of drug action in vascular smooth muscle (dog, rabbits)
** P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
** P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
** P50HL-15062-07 0012 Study of lipoproteins, artery wall, and atherosclerosis - Lipoprotein stimulation of arterial smooth muscle cell proliferation (mammals)
** P50HL-15062-07 0019 Study of lipoproteins, artery wall, and atherosclerosis - Factors regulating lipoprotein-smooth muscle cell interaction (monkey)
P50HL-15062-07 0020 Study of lipoproteins, artery wall, and atherosclerosis - Artery wall reactions--Elevated pressure and hyperlipemia (monkey)
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
** R01HL-15646-03 Lipid studies in vascular smooth muscle cells (human, monkeys)
R01HL-15679-06 Heart and smooth muscle contractile protein (swine, cattle, rabbits, chickens)
R01HL-15805-06 Cerebral arterial tone and reactivity (rabbits)
P01HL-15835-06 0001 Study of muscles related to heart disease - Control of contraction-relaxation of heart and muscle (rabbits, chickens)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-15835-06 0002 Study of muscles related to heart disease - Proteins of smooth muscle system (cattle, rabbits)
P01HL-15835-06 0006 Study of muscles related to heart disease - Ultrastructural and chemical studies of muscle (animals)
P01HL-15835-06 0009 Study of muscles related to heart disease - Aspects of cardiac and skeletal myogenesis (chick embryo)
P01HL-15835-06 0010 Study of muscles related to heart disease - Muscle structure and reaction to injury (mice, rats)
P01HL-15835-06 0011 Study of muscles related to heart disease - Energetics and mechanism of muscle contraction (frogs, rabbits)
** P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
P01HL-15835-06 0018 Study of muscles related to heart disease - Pharmacology of excitation coupling in muscle (frog, barnacles)
** P01HL-15835-06 0019 Study of muscles related to heart disease - Vascular smooth muscle--Electron microscopy, excitation contraction (animal)
P01HL-15835-06 0021 Study of muscles related to heart disease - Fast kinetic studies in muscle subcellular organelles (animals)
** P01HL-15835-06 0025 Study of muscles related to heart disease - Cellular biology of vascular smooth muscle (guinea pig)
P01HL-15835-06 0027 Study of muscles related to heart disease - Core II-Intermediate voltage EM of muscle
** R01HL-15852-06 Vascular ion transport and hypertensive mechanisms
** R01HL-16003-08 Sources and roles of calcium in smooth muscle excitation (rats)
P01HL-16117-05 0001 Ion movements and membranes in cardiovascular control - Oevelopmental studies of contractile cell junctions (rats, rabbits, elasmobranch)
P01HL-16117-05 0006 Ion movements and membranes in cardiovascular control - Neuroreceptors and cellular excitation (fish)
** P01HL-16117-05 0008 Ion movements and membranes in cardiovascular control - Arterial smooth muscle calcium fluxes and contractility (rabbits)
** R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)
** R01HL-16328-06 Membrane electrical properties of vascular muscle (human, animals)
P01HL-16387-04 0003 The blood vessel and thrombogenesis - Blood vessel healing (rabbits)
P01HL-16387-04 0004 The blood vessel and thrombogenesis - Analysis of vascular basement membrane by enzymatic methods (human)
** P01HL-16387-04 0009 The blood vessel and thrombogenesis - Role of pituitary gland in the pathogenesis of arteriosclerotic lesions (rats)
** R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
P01HL-16607-05 0007 Calcium ion and control of cardiovascular function - Ultrastructure and conformation in sarcoplasmic reticulum (rabbits)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
R01HL-16904-03 Regulation of smooth muscle cells in arteriosclerosis (rabbit aorta)
P01HL-16910-05 0001 Regulation of the peripheral circulation - Quantitative studies of microcirculatory control (bats)
** R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
R01HL-17335-05 Contractile properties of hypertensive arterioles (rats)
** P01HL-17421-05 0002 Regulation and exchange in the microcirculation - Metabolic and myogenic blood flow regulation in microcirculation (animals)
P01HL-17421-05 0003 Regulation and exchange in the microcirculation - Transcapillary fluid exchange in rat intestinal muscle, mucosa, and mesentery
P01HL-17421-05 0004 Regulation and exchange in the microcirculation - Localization of flow regulation in the microcirculation (cats, human)
R01HL-17576-04 Role of sphingomyelin in biomembranes and bilayers (rats, other mammals)
R01HL-17747-04 Endothelial injury and regeneration (rats)
R01HL-17783-04 Complex carbohydrates--Structure, function, synthesis (swine)
P01HL-17871-04 0010 Kidney, sodium, cardiac output, arterioles and hypertension - Renal prostaglandins metabolism in hypertension (rats, dogs)
** R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
** R01HL-18077-04 Smooth muscle cell organization and Ca20 concentration control (chickens)
R01HL-18259-03 Controlled intratissue release of prostaglandins
R01HL-18260-04 Cyclic nucleotide metabolism in lung tissue (cattle)
** P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
R01HL-18516-03 Atherosclerosis and the arterial contractile proteins (pigs, rabbits)
M P01HL-18575-03 Mechanisms of vascular changes in hypertension
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
** P01HL-18575-03 0007 Mechanisms of vascular changes in hypertension - Microscopy of hypertensive arterial lesions (rats)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
R01HL-18625-03 Organization of arterial ground substance (cattle)
M P01HL-18645-03 Biology of the artery wall and atherosclerosis
** P01HL-18645-03 0001 Biology of the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
** P01HL-18645-03 0003 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
** P01HL-18645-03 0004 Biology of the artery wall and atherosclerosis - Human arterial smooth muscle cell and lipoprotein interaction
P01HL-18645-03 0005 Biology of the artery wall and atherosclerosis - Effects of atherosclerosis risk factors on endothelium of the primate
P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
P01HL-18708-03 0008 Oxygen, energy and contractility in cardiac tissue - Cardiac cell culture facility
** R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
R01HL-18826-04 Interaction of peptides and target cells in lung (human)
R01HL-18831-03 Microscopy of spontaneously hypertensive arterial lesion (rats)
R01HL-19008-02 Carbon dioxide diffusion in lung and muscle tissues (dogs)
** R01HL-19011-03 Smooth muscle cell membrane glycoprotein biosynthesis (cattle)
** R01HL-19012-03 Smooth muscle of resistance vessels in hypertension (rats)
R01HL-19027-03 Calcium and cyclic AMP in causation of hypertension (rats)
R01HL-19066-03 Synthesis and evaluation of prostaglandin metabolites (guinea pigs)
** R01HL-19082-01 Hypoxia-induced relaxation of vascular smooth muscle
R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
P50HL-19156-02 0005 Pulmonary SCOR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
P50HL-19170-02 0003 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanisms of bronchial reactivity to acute and chronic airway challenge (dog)
R01HL-19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
** R01HL-19226-03 Vascular smooth muscle in hypertension (rats)
M P01HL-19242-02 Study of vascular smooth muscle
** P01HL-19242-02 0001 Study of vascular smooth muscle - Energy metabolism and protein turnover in vascular smooth muscle (rats)
** P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
** P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
** P01HL-19242-02 0004 Study of vascular smooth muscle - Cyclic nucleotide metabolism in smooth muscle cultures (human, rats)
** P01HL-19242-02 0006 Study of vascular smooth muscle - The contractile system of vascular smooth muscle (swine, rats)
** P01HL-19242-02 0007 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (animals)
** P01HL-19242-02 0008 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (rats)
** P01HL-19242-02 0009 Study of vascular smooth muscle - Electrophysiology of vascular smooth muscle (rats, chick embryo)
R01HL-19275-03 Characterization of collateral blood vessels (dogs)
** R01HL-19299-03 Myoglobin and oxygen supply to heart and muscle cells (rats, pigeons)
R01HL-19653-03 Circulatory system effects of angiotensin analogs (rats)
R01HL-19677-03 Venous structure and function (dogs)
P01HL-19717-02 0007 Response of the lung to injury - Cellular level studies of prostaglandin-like molecules (cattle)
** P01HL-19737-02 0002 Cellular and molecular aspects of respiratory physiology - Airway smooth muscle in health and disease (human, animals)
P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
** R01HL-20054-02 Cultured blood vessel cells--Pathophysiology (human, animals)
R01HL-20087-02 Oevelopmental processes in pulmonary hypertension (rats)
R01HL-20122-02 Operational mechanisms of airway receptors (dogs, pigs)
** R01HL-20184-02 Oesensitization of tracheal muscle to isoproterenol (rats, rabbits)
** R01HL-20196-02 Regulation of coronary arterial smooth muscle
R01HL-20339-02 Vascular alpha-adrenergic receptor molecular properties
R01HL-20400-03 Oiabetic neuropathy and peripheral vascular diseases (human, hamsters)
R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
R01HL-20439-02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
R01HL-20563-02 Restoring microcirculation after platelet aggregation
M P01HL-20581-01 Vascular neuroeffector mechanisms in health and disease
** P01HL-20581-01 0001 Vascular neuroeffector mechanisms in health and disease - Vascular neuroeffector mechanism (rabbits)
** P01HL-20581-01 0002 Vascular neuroeffector mechanisms in health and disease - Trophic interaction between adrenergic nerves and vascular smooth muscle
P01HL-20581-01 0003 Vascular neuroeffector mechanisms in health and disease - Cerebrovascular neuroeffector characteristics (animals)
** P01HL-20581-01 0004 Vascular neuroeffector mechanisms in health and disease - Neuroeffector characteristics of mesenteric and pulmonary blood vessels (rabbits)
** P01HL-20581-01 0005 Vascular neuroeffector mechanisms in health and disease - Changes in the neuroeffector mechanism in hypertension (rabbits)
P01HL-20581-01 0006 Vascular neuroeffector mechanisms in health and disease - Neuroeffector mechanism in arteries and veins in hypertension (human)
P01HL-20592-02 0001 Cell biology of cardiac and skeletal muscle - Molecular mechanism of muscle contraction (animals)
** R01HL-20611-02 Airway smooth muscle and cyclic nucleotides
R01HL-20782-01 Coronary flow regulation by adenosine (rats, dogs)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R01HL-20924-02 Atherosclerosis and arterial cell functions (human, rabbits)
** P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LOL pathway in cell lines with informative properties other than fibroblasts
M P01HL-20993-02 Population dynamics of arterial cells in atherogenesis
** P01HL-20993-02 0001 Population dynamics of arterial cells in atherogenesis - Arterial SMC population dynamics in atherogenesis (swine)
P01HL-20993-02 0007 Population dynamics of arterial cells in atherogenesis - Interaction of lipoproteins in hypercholesteremia (human, swine)
P01HL-20993-02 0008 Population dynamics of arterial cells in atherogenesis - Angiotoxicity of cholesterol oxidation in atherogenesis (rabbits)
** P50HL-21006-02 0004 Specialized center of research in arteriosclerosis - Regulation of growth of human arterial smooth muscle cells by platelets
R01HL-21030-01 Calcium regulation and hypertension (rats)
R01HL-21103-01 Parametric mechanical studies of hypertensive arteries (dogs, rats)
R01HL-21187-01 Potassium, norepinephrine, and coronary arterial tone (dogs)
R23HL-21213-01 A model for calcium homeostasis in excitable tissue (marine worms)
R01HL-21239-02 Isolation and mechanism of action of thromboxane A2 (human, rabbits)
R01HL-21303-02 Collagen synthesis by cultured human vascular cells
R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
** R23HL-21488-01 Myosin-linked regulation in vertebrate smooth muscle (calf aorta)
R01HL-21498-02 Pathophysiology of edema (rats, cats)
** R23HL-21539-02 Mechanical properties of isolated small bronchioles (rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

** P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)
P01HL-21584-02 0006 Respiratory mechanics in normal and abnormal states - Respiratory mechanics in health and disease (human, pigs)
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
R01HL-21851-01 Cerebral microcirculation in experimental hypertension (cats, rabbits)
** R23HL-21914-01 Studies of vasomotor control (rats)
R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
** R01HL-22177-02 Mechanisms of control of pulmonary smooth muscle (dogs)
R01HL-22194-02 Allosteric function of platelet contractile proteins (human)
** R01HL-22216-02 Vascular mechanisms in renal hypertension (dogs)
R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
** R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
** R01HL-22486-01 Enzyme regulation in cultured arterial cells (swine)
R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors
P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
** P01HL-22602-01 0004 Pathophysiology of the endothelium - Endothelium, platelets smooth muscle and atherosclerosis (rabbits)
** P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
** P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
** P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R01HL-22623-01 Polyamines cellular mediators of atherogenesis (human)
P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
R23HL-22745-01 Vascular mechanics and structure in hypertension (miniature swine)
R01HL-22783-01 Hemodynamic induction of intimal fibromuscular lesion
** R01HL-22784-01 Ductus arteriosus closure--An arterial lesion model (rabbits)
R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)
** R01HL-22990-01 Angiotensin II receptors--Mechanisms of regulation (rats)
** R01HL-23013-01 Smooth muscle development in vitro (chick embryo)
** R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)
** R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)
** R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
** R01HL-23224-01 Hypoxia and pulmonary vascular smooth muscle (rat, cat)
** R01HL-23232-01 Effect of hypoxia on PVSM and its precursor cells
** R01HL-23233-01 Pulmonary artery intermediate filament structure (cattle)
** R01HL-23239-01 Functional characteristics of pulmonary vascular smooth muscle (dogs)
** R01HL-23240-01 Pulmonary vascular muscle metabolism and contractility (rats, cattle)
** R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)
** R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)
** R01HL-23542-01 Pulmonary vascular smooth muscle cell dynamics (rat, rabbit)
R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)
R01HL-23614-02 Pharmacology of relaxation in smooth muscle (mollusks)
R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)

MUSCLES, STRIATED MUSCLE

** R01HL-00082-30 Transmembrane movements (barnacles, frogs, rats)
R01HL-02953-17 Autonomic and cardiovascular pharmacology (rats, rabbits, dogs, guinea pigs)
** P01HL-03174-23 0007 Mechanisms of acute vascular reaction to injury - Healing of injured myocardium--Basal lamina scaffold (human, rats, dogs)
R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
** R01HL-05883-18 0007 Reflex control of resistance and capacitance vessels - Prostaglandins and skeletal muscle blood flow (dogs)
** R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
P01HL-06312-17 0034 Surgical cardiology - Metabolic factors in cardiac function--Creatine phosphate depletion (animals)
R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
R01HL-07723-15 Reflex control of vascular capacitance in shock
R01HL-09544-12 Biochemistry of contractile proteins (animals)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
R01HL-10881-13 Structure and function of microcirculation (hamsters, rats, cats, dogs)
P01HL-11351-12 0001 Cellular and molecular mechanisms of myocardial function - Ionic control of myocardial contractility (animals)
P01HL-11351-12 0006 Cellular and molecular mechanisms of myocardial function - Molecular physiology and energetics of muscle (frogs)
P01HL-11351-12 0009 Cellular and molecular mechanisms of myocardial function - Myocardial membrane surface coat (rats, rabbits)
P01HL-11351-12 0011 Cellular and molecular mechanisms of myocardial function - Comparative contractile tissue studies (animals)
P01HL-11351-12 0021 Cellular and molecular mechanisms of myocardial function - Muscle energetics (frogs)
R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)
** R01HL-12186-09 Calcium transients in striated muscle and other cells (mammals, frogs)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
R01HL-12614-09 Microcirculatory control mechanisms and hypertension (bats, rats)
R01HL-12690-09 Systemic and local vascular adjustment in shock (monkeys, cats)
** P01HL-12738-10 0098 Physiologic pharmacology and its clinical applications - Skeletal muscle support of the chronically failing heart (dogs)
** P01HL-12738-10 0109 Physiologic pharmacology and its clinical applications - Effects of calcium blockers on skeletal and cardiac muscle (cats)
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
R01HL-14938-06 Contractile proteins of heart muscle (dogs, rabbits)
R01HL-15390-12 Regulation of blood flow in the microcirculation
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
** R01HL-15562-05 Regulation of skeletal muscle blood flow (dogs)
R01HL-15679-06 Heart and smooth muscle contractile protein (swine, cattle, rabbits, chickens)
P01HL-15835-06 0001 Study of muscles related to heart disease - Control of contraction-relaxation of heart and muscle (rabbits, chickens)
P01HL-15835-06 0006 Study of muscles related to heart disease - Ultrastructural and chemical studies of muscle (animals)
** P01HL-15835-06 0007 Study of muscles related to heart disease - Structure and function of Limulus striated and cardiac muscle
** P01HL-15835-06 0009 Study of muscles related to heart disease - Aspects of cardiac and skeletal myogenesis (chick embryo)
** P01HL-15835-06 0010 Study of muscles related to heart disease - Muscle structure and reaction to injury (mice, rats)
P01HL-15835-06 0011 Study of muscles related to heart disease - Energetics and mechanism of muscle contraction (frogs, rabbits)
** P01HL-15835-06 0018 Study of muscles related to heart disease - Pharmacology of excitation coupling in muscle (frog, barnacles)
P01HL-15835-06 0021 Study of muscles related to heart disease - Fast kinetic studies in muscle subcellular organelles (animals)
P01HL-15835-06 0023 Study of muscles related to heart disease - Cellular basis of the Frank-Starling curve (frogs, rats)
P01HL-15835-06 0027 Study of muscles related to heart disease - Core II--Intermediate voltage EM of muscle
R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
** R01HL-16606-11 Contraction in heart and other striated muscles (frogs)
** P01HL-16607-05 0006 Calcium ion and control of cardiovascular function - Sarcomere and contractile dynamics of striated muscle cells (animals)
P01HL-16607-05 0007 Calcium ion and control of cardiovascular function - Ultrastructure and conformation in sarcoplasmic reticulum (rabbits)
M P01HL-16683-04 Function and growth of cardiac and skeletal muscle
** P01HL-16683-04 0001 Function and growth of cardiac and skeletal muscle - Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)
** P01HL-16683-04 0002 Function and growth of cardiac and skeletal muscle - Myosin, actin, ATP, interaction in solution
** P01HL-16683-04 0003 Function and growth of cardiac and skeletal muscle - Movements of S-1 moieties in muscle fibers
** P01HL-16683-04 0006 Function and growth of cardiac and skeletal muscle - Chemical studies of the contractile system--Development of new reagents
P01HL-17421-05 0004 Regulation and exchange in the microcirculation - Localization of flow regulation in the microcirculation (cats, human)
** R01HL-17628-03 Pulsatile pressure-flow dynamics (dogs)
** P01HL-17813-04 0007 Lung disease and the oxygenation of blood and tissue - Studies on the function of myoglobin (dogs)
R01HL-17853-03 Peripheral circulation in heart failure (animals)
** R01HL-17932-04 Blood flow regulation in muscle (cats)
R01HL-18077-04 Smooth muscle cell organization and Ca2O concentration control (chickens)
** R01HL-18145-03 Oxygen transport mechanisms in hypoxia (dogs, rats, rabbits)
P01HL-18708-03 0008 Oxygen, energy and contractility in cardiac tissue - Cardiac cell culture facility
R01HL-19008-02 Carbon dioxide diffusion in lung and muscle tissues (dogs)
P01HL-19242-02 0001 Study of vascular smooth muscle - Energy metabolism and protein turnover in vascular smooth muscle (rats)
R01HL-19299-03 Myoglobin and oxygen supply to heart and muscle cells (rats, pigeons)
R01HL-19848-02 Contractile activation by rapid temperature jumps (frogs)
R01HL-20408-03 Hyperlipidemia in diabetics during muscular training (human)
** R01HL-20464-01 Regulation of cardiac and skeletal muscle contraction (mammals)
P01HL-20552-02 0001 The development and regression of cardiac hypertrophy - Biochemical events in cardiac hypertrophy (rats)
P01HL-20592-02 0003 Cell biology of cardiac and skeletal muscle - Cellular magnesium and anion activities in ion-specific microelectrodes (frogs)
P01HL-20592-02 0011 Cell biology of cardiac and skeletal muscle - Myosin and cytochrome oxidase messenger RNAs (chicken)
P01HL-20984-02 0003 Cellular mechanisms in cardiac hypertrophy - Fast-kinetics of myosin ATPase from normal and hypertrophied heart (rabbits)
** R23HL-21332-02 Pulsatile regulation of flow in the microcirculation (cats)
R01HL-21471-02 Structure-function studies on actin and myosin (human, protozoa, rabbits, cattle)
R01HL-21498-02 Pathophysiology of edema (rats, cats)
R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
** R23HL-21901-01 Hypertension, microvascular control and exercise (rats)
R01HL-22401-01 Regulation of tension and active state in the heart
R01HL-22461-01 Cardiac tropomyosin and tropomyosin-action interactions (rabbit)
R01HL-22538-01 Myosin as a multi-enzyme complex (dogs, rabbits)
** P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
R01HL-22664-01 Regulation of myocardial cell growth (rats, guinea pigs)
R01HL-22740-01 Behavior and cardiovascular disease--Basic mechanisms (human)
** R23HL-22975-01 Dynamics of autoregulation of muscle blood flow (dogs)
** R01HL-22985-01 Properties and assembly of Z-disk proteins (human, other species)
** R13HL-23072-01 Gordon Research Conference--Cardiac and skeletal muscle (New Hampshire)
R01HL-23128-01 Cardiac contractility--Ischemia and hypoxia (rabbits, rats)
R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

MUSCULAR DISORDERS
SEE ALSO HEART OISOROERS, MYOCAROITIS
SEE ALSO METABOLIC OISOROERS INBORN, MUSCULAR OYSTROPHY
SEE ALSO METABOLIC OISOROERS INBORN, MYOTDNIA CDNGENITA
SEE ALSO NEUROMOTOR OISDROERS
SEE ALSO NEUROMOTOR OISDRDERS, NEUROMUSCULAR (GENERAL)
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
** R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
** P01HL-15835-06 0010 Study of muscles related to heart disease - Muscle structure and reaction to injury (mice, rats)
R01HL-21471-02 Structure-function studies on actin and myosin (human, protozoa, rabbits, cattle)

MUSCULAR DISORDERS, MUSCLE NECROSIS
SEE ALSO HEART DISDROERS, CORONARY, MYOCARDIAL INFARCT
P50HL-17651-04 0038 Ischemic heart disease specialized center of research - Cardiothermography (human, dog)
P50HL-17651-04 0039 Ischemic heart disease specialized center of research - Measurement and prediction of infarct size (human, dog)
P50HL-17665-04 0008 Study of ischemic heart disease - Core laboratory--CPK isoenzyme measurement and myocardial necrosis evaluation
P50HL-17665-04 0029 Study of ischemic heart disease - Myocardial protein synthesis and degradation in low oxygen states (rabbit, dog)
R01HL-20401-03 Relationship of insulin to catechol cardiomyopathy (rabbit, pig)
R01HL-22741-01 Arteriovenous connections in extremity revascularization (dogs)
R01HL-23140-01 Determinants of irreversible ischemic injury in heart (dog, rat)

MUSCULAR DISORDERS CHEMOTHERAPY
SEE ALSO MUSCLE PHARMACOLDGY
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)

MUSCULAR DYSTROPHY
SEE METABOLIC OISDROERS INBORN, MUSCULAR DYSTRDPHY

MUSCULOSKELETAL SYSTEM (GENERAL)
SEE SKELETAL SYSTEM (GENERAL)

MUSSEL POISON
SEE TOXICDLOGY, PROTOZOAL TOXINS, SAXITOXIN

MUSTARDS, NITROGEN
SEE HALOALKYLAMINES, NITROGEN MUSTARDS

MUTAGENS
SEE GENETICS, MUTAGENS

MUTANTS
SEE GENETICS, MUTATION, MUTANTS*

MUTATION
SEE GENETICS, MUTATION

MUTATION, CHROMOSOME
SEE GENETICS, MUTATIDN, GENE MUTATION, POINT MUTATION

MYCOBACTERIUM BOVIS, BCG STRAIN
SEE BACTERIA, ACTINDMYCETALES, BACILLUS CALMETTE-GUERIN*

MYCOBACTERIUM TUBERCULOSIS
SEE BACTERIA, ACTINOMYCETALES, MYCOBACTERIUM TUBERCULDSIS*

MYCOPLASMA
SEE BACTERIA, MYCDPLASMATALES, MYCOPLASMA*

MYCOPLASMA PNEUMONIAE
SEE BACTERIA, MYCOPLASMATALES, MYCOPLASMA PNEUMDNIAE*

MYCOPLASMAL PNEUMONIA
SEE RESPIRATORY DISDROERS, PNEUMONIA MYCDPLASMAL (PPLO)

MYCOSES, ASPERGILLOSIS
** P50HL-15389-07 0D1D Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical study--Pulmonary lesions due to non-invasive aspergillosis

MYCOTOXINS
SEE TDXICOLDGY, MYCOTDXINS

MYELIN DEGENERATION
SEE NERVDUS DISORDERS, MYELINOPATHIES (GENERAL)

MYELINATION
SEE NERVDUS SYSTEM, MYELINATIDN

MYELINOPATHIES (GENERAL)
SEE NERVOUS DISORDERS, MYELINOPATHIES (GENERAL)

MYELOCYTIC, MYELOGENOUS, MYELOID LEUKEMIA
SEE NEDPLASMS DF BLDOO AND RE SYSTEM, LEUKEMIA MYELOID

MYELOPROLIFERATIVE DISORDERS (BONE MARROW)
SEE NEOPLASMS OF BLOOD ANO RE SYSTEM, BONE MARROW NEOPLASMS, MYELDPRDLIFERATIVE

MYELOSIS BONE MARROW
SEE NEDPLASMS DF BLDDD ANO RE SYSTEM, BDNE MARRDW NEOPLASMS, MYELOPRDLIFERATIVE

MYOBLASTS
SEE MUSCLE CELLS, MYOBLASTS

MYOCARDIAL AUGMENTATION, BALLOON PUMPING AORTIC
SEE HEART PROSTHESIS, AUXILIARY, ADRTIC BALLDDN PUMPING

MYOCARDIAL DEPRESSANTS
SEE CAROIOVASCULAR AGENTS, ANTIARRHYTHMIC AGENTS

MYOCARDIAL DISORDERS
SEE HEART DISORDERS, MYOCAROIAL OISOROERS

MYOCARDIAL INFARCT
SEE HEART OISORDERS, CORONARY, MYOCARDIAL INFARCT

MYOCARDIAL INFARCT SIZING
SEE HEART DISDRDERS DIAGNOSIS, MYOCAROIAL INFARCT SIZING

MYOCARDIAL INFARCT THERAPEUTIC AGENTS
SEE CAROIOVASCULAR AGENTS, CAROIDTONIC AND CAROIDPROTECTIVE ORUGS (GENERAL)

MYOCARDIAL ISCHEMIA AND HYPOXIA
SEE HEART OISORDERS, CDRONARY, MYOCAROIAL ISCHEMIA ANO HYPOXIA

MYOCARDIAL REVASCULARIZATION
SEE HEART REVASCULARIZATIDN

MYOCARDITIS
SEE HEART OISDROERS, MYOCARDITIS

MYOCARDIUM
SEE HEART, MYDCAROIUM

MYOCARDIUM INTERCALATED DISCS
SEE HEART, MYOCAROIUM INTERCALATEO OISCS

MYOCARDOSIS
SEE HEART DISORDERS, MYDCARDIAL DISDROERS

MYOCLONUS
SEE NEUROMOTOR DISOROERS, MYOCLONUS

MYOEPITHELIAL CELLS
SEE MUSCLE CELLS, MYOEPITHELIAL CELLS

MYOFIBRILS
SEE MUSCLES, MYOFIBRILS

MYOGENESIS
SEE MUSCLES, MYOGENESIS

MYOGLOBIN
SEE HEMOPROTEINS, MYOGLOBIN

MYOGLOBINOPATHIES
SEE HEMDPRDTEINS, MYOGLOBINDPATHIES

MYOGLOBINURIA
SEE HEMOPROTEINS, MYOGLOBINURIA

MYOGRAPHY, ELECTROMYOGRAPHY
SEE MUSCLE FUNCTION, ELECTROMYOGRAPHY*

MYOKINASE
SEE PHOSPHOTRANSFERASES, ATP:AMP PHOSPHDTRANSFERASE

MYONEURAL JUNCTION
SEE NEUROMOTOR SYSTEM, NEUROMUSCULAR JUNCTION

MYOPIA
SEE EYE REFRACTIVE OISORDERS, MYOPIA

MYOSIN
SEE MUSCLE PROTEINS (AND CDNTRACTILE PROTEINS), MYOSIN

MYOTACTIC RECEPTORS
SEE MUSCLE FUNCTIDN, MUSCLE STRETCH (RECEPTORS)

MYOTACTIC REFLEX
SEE MUSCLE FUNCTIDN, MUSCLE STRETCH REFLEX

MYOTONIA ATROPHICA
SEE METABDLIC OISDRDERS INBORN, MYOTDNIA ATROPHICA

MYOTONIA CONGENITA
SEE METABOLIC DISORDERS INBORN, MYOTDNIA CONGENITA

MYOTONIC DYSTROPHY
SEE METABOLIC DISOROERS INBDRN, MYOTONIA ATROPHICA

NADASE
SEE N-GLYCDSYLHYDRDLASES, NAO NUCLEDSIOASE

NAD LINKED ENZYMES
P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)
** R01HL-20116-01 Heart lactate dehydrogenase--The complex with NAOH (pig)
R01HL-20544-02 Integrated regulation of myocardial energy metabolism (rats, guinea pigs)
R01HL-23161-01 0001 Biology of myocardial ischemia - Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)

NAD NUCLEOSIDASE
SEE N-GLYCOSYLHYORDLASES, NAD NUCLEDSIOASE

NAD (H2)
SEE PYRIDINE NUCLEOTIOES, NICDTINAMIOE RIBOTIDES, NAO(H2)

NAD(P)H DEHYDROGENASE (QUINONE)
SEE OXIODREOUCTASES, NAD(P)H DEHYDRDGENASE (OUINDNE)

NAD(P)H:(QUINONE-ACCEPTOR) OXIDOREDUCTASE
SEE DXIDDREOUCTASES, NAD(P)H OEHYORDGENASE (DUINDNE)

NADPH:ACCEPTOR OXIDOREDUCTASE
SEE OXIDDREOUCTASES, NAOPH DEHYDRDGENASE

NADPH-CYTOCHROME REDUCTASE
SEE OXIDDREOUCTASES, NAOPH2 CYTDCHRDME C REDUCTASE

NADPH DEHYDROGENASE
SEE OXIOOREDUCTASES, NAOPH OEHYORDGENASE

NADPH:FERRICYTOCHROME OXIDOREDUCTASE
SEE DXIOOREDUCTASES, NAOPH2 CYTDCHROME C REDUCTASE

NADPH2 CYTOCHROME C REDUCTASE
SEE DXIOOREDUCTASES, NAOPH2 CYTOCHROME C REOUCTASE

NADP LINKED ENZYMES
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
R01HL-18502-03 Enzymatic regulation of platelet function (human)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)

NALOXONE
SEE ALKALOIDS, MORPHINES, NALOXONE

NAPHTHYLAMINES, PROPRANOLOL
R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
R01HL-05875-18 Pathologic metabolic and physiologic studies of heart (human, dogs, cats)
P01HL-06285-18 0154 Cardiovascular-respiratory physiology and biochemistry - Function and viability of critically ischemic myocardium (dogs)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
P01HL-06835-17 0031 Cardiovascular disease - Synthesis of potent antagonist of pressor action of angiotensin II (animals)
P01HL-06835-17 0037 Cardiovascular disease - Cardiac hypertrophy in spontaneously hypertensive rat
P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
P01HL-06835-17 0046 Cardiovascular disease - Renin activity during salt depletion in essential hypertension (human)
PD1HL-06835-17 0051 Cardiovascular disease - Cardiopulmonary volume in hypertension (human)
** PD1HL-D6835-17 0061 Cardiovascular disease - Studies in renal physiology (human, rats, dogs)
RD1HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
PD1HL-D7896-15 0054 Environmental biomedical research program - Myocardial effects of hemorrhagic shock (dogs)
RD1HL-08311-14 Effects of drugs upon myocardial hypoxia (dogs, turtles)
P01HL-08682-15 0026 Regulation of the cardiovascular system - Hypertension--High renin vs low renin (dog)
P01HL-08682-15 0038 Regulation of the cardiovascular system - Control of pulmonary circulation (dogs)

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** R01HL-09906-13 0025 Membrane transport processes in red blood cells - Mechanism of propranolol induced Ca-dependent K efflux from human RBCs
P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
R01HL-10608-12 Digoxin-specific antibodies (human)
R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
R01HL-10942-09 Study of genetic hypertension in rats
P01HL-11310-12 0078 Mechanisms of cardiovascular disease - Ventricular arrhythmias in acute myocardial infarction (dogs)
P01HL-11310-12 0079 Mechanisms of cardiovascular disease - Electrophysiological studies of complete heart block (human)
P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
P01HL-12738-10 0042 Physiologic pharmacology and its clinical applications - Centrogenic cardiac arrhythmias (cats)
P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
P01HL-12738-10 0117 Physiologic pharmacology and its clinical applications - Ventricular arrhythmias in ischemic heart disease (human)
P01HL-12738-10 0124 Physiologic pharmacology and its clinical applications - Counterpulsation on myocardial ischemia measured by carbon dioxide tension (dogs)
** P01HL-12738-10 0133 Physiologic pharmacology and its clinical applications - Pharmacologic antagonism of beta-adrenergic blockade (dogs)
P01HL-12738-10 0134 Physiologic pharmacology and its clinical applications - Adenylate cyclase and cAMP phosphodiesterase in cardiac development (dogs)
P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
R01HL-13917-20 Secretion and effects of adrenal hormones (human, rabbits, sheep)
P50HL-14192-08 0003 Specialized center of research in hypertension - Prostaglandins as mediators of renin secretion (human, dog)
P01HL-14388-07 0159 Regulation of the circulation in pathological states - Early drug and diet interventions and blood pressure development (rats)
P01HL-14388-07 0209 Regulation of the circulation in pathological states - Neural regulation of vascular resistance in human hypertension
P01HL-14388-07 0215 Regulation of the circulation in pathological states - Left ventricle model in pathophysiologic states
P01HL-14388-07 0223 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (rats)
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
P01HL-16607-05 0003 Calcium ion and control of cardiovascular function - Calcium transport in sarcoplasmic membranes (animals)
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
R01HL-17246-03 Oxygen uptake at one minute of exercise (human)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
R01HL-17459-03 Myocardial ischemia (dogs)
R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
P50HL-17651-04 0002 Ischemic heart disease specialized center of research - Reduction of myocardial ishemic injury by pharmacologic agents (human, dog)
P50HL-17655-04 0009 Study of ischemic heart disease - Random trial of medical and surgical therapy in unstable angina (human)
P50HL-17665-04 0002 Study of ischemic heart disease - Reducing acute anterior myocardial infarction- Beta adrenergic blockade (human)
P50HL-17665-04 0012 Study of ischemic heart disease - Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog
P50HL-17669-04 0008 Ischemic heart disease center (SCOR) - Segmental ventricular dysfunction during stress-induced ischemia (dog, human)
P50HL-17669-04 0012 Ischemic heart disease center (SCOR) - Circulatory assistance (human, dog)
P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
P50HL-18318-03 0011 Pathogenesis and complications of hypertension - Adrenergic function--Renin and mineralocorticoid activity (human)
P50HL-18323-04 0043 SCOR hypertension center - Pharmacology--Renin-aldosterone mechanisms in essential hypertension (human)
R01HL-18537-04 Regional blood flow after acute myocardial injury (dogs)
R01HL-18805-04 0004 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Clinical follow-up and therapy (human)
P50HL-18828-03 0005 Specialized center of research in thrombosis - Platelet inflammatory factors in thrombosis (human, guinea pig)
R01HL-18948-03 Pulseless flow and circulatory assistance (dogs, calves)
R01HL-19112-03 Atherosclerosis studies (monkeys)
R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
R01HL-20199-02 Drug-induced alterations in infarct size in the rat
R01HL-20455-03 Role of systemic hypertension on diabetic retinopathy (human)
R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
R01HL-20859-02 Beta adrenergic catecholamine receptor
R23HL-21151-02 Ischemic myocardium--Delivery of blood flow and drugs (dogs)
R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
R01HL-21221-02 Clinical antiarrhythmic and pharmacodynamic studies
P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)
R01HL-21684-02 0001 Radionuclide infarct sizing and therapy evaluation - Evaluating preservation of ischemic myocardium by radioisotope methods (dog)
R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)
R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
R01HL-21817-01 Catecholamines, blood pressure and circulation
** R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)
R01HL-22032-01 Cardiovascular events in hypertensives (human)
R01HL-22296-01 Autonomic mechanisms in man
R01HL-22484-01 Neural control of cardiac conduction and excitation (dogs)
R01HL-22546-02 Baroreceptor reflex mechanisms in man
R01HL-22568-01 pH effect in heart cells Influence of cardiac drugs (tissue culture, rats)
R01HL-22581-02 Neurocirculatory control in diabetes mellitus (human)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)
** R01HL-22718-01 Cardiovascular drug interactions - Metabolism models (dogs)
R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R01HL-22862-01 CNS-mediated effects of antiarrhythmic drugs (dogs)
R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)
R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)
R01HL-23624-01 Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs)
** R01HL-23726-01 Treatment of ventricular arrhythmias with propranolol (human)
** N01HV-62960-00 Techniques to protect ischemic myocardium and minimize infant size (human)
** N01HV-72940-02 Therapy to protect ischemic myocardium (human)
** N01HV-72948-03 Coordinating center for propranolol heart trial (human)
** N01HV-72949-03 ECG center for proprancolo heart trial
** N01HV-72950-02 Central laboratory for propranolol heart trial
** N01HV-72951-03 Clinical center for propranolol heart trial (human)
** N01HV-72952-02 Clinical center for propranolol heart trial (huamn)
** N01HV-72953-04 Clinical center for propranolol heart trial
** N01HV-72954-06 Clinical center for propranolol heart trial (human)
** N01HV-72955-02 Clinical center for propranolol heart trial (human)
** N01HV-72956-02 Clinical center for propranolol heart trial (human)
** N01HV-72957-02 Clinical center for propranolol heart trial (human)
** N01HV-72958-02 Clinical center for propranolol heart trail (human)
** N01HV-72959-04 Clinical center for propranolol heart trial (human)
** N01HV-72960-02 Clinical center propranolol heart trial (human)
** N01HV-72961-03 Clinical center for propranolol heart trial
** N01HV-72963-02 Clinical center for propranolol heart trial (human)
** N01HV-72964-02 Clinical center for propranolol heart trial (human)
** N01HV-72965-02 Clinical center for propranolol heart trial
** N01HV-72966-03 Clinical center for propranolol heart trial
** N01HV-72967-02 Clinical center for propranolol heart trial (human)
** N01HV-72968-03 Clinical center for propranolol heart trial
** N01HV-72969-02 Clinical center for propranolol heart trial (human)
** N01HV-72970-04 Clinical center for propranolol heart trial (human)
** N01HV-82900-03 Clinical center for propranolol heart trial (human)
** N01HV-82901-02 Clinical center for propranolol heart trial (human)
** N01HV-82902-02 Clinical center for propranolol heart trial (human)
** N01HV-82903-02 Clinical center for propranolol heart trial (human)
** N01HV-82904-02 Clinical center for propranolol heart trial (human)
** N01HV-82905-02 Clinical center for propranolol trial (human)
** N01HV-82906-02 Clinical center for propranolol heart trial (human)
** N01HV-82907-02 Clinical center for propranolol heart trial (human)
** N01HV-82908-02 Clinical center for propranolol heart trial (human)
** N01HV-82909-02 Clinical center for propranolol heart trial (human)
** N01HV-82910-00 Clinical center for propranolol heart trial (human)

NARCOSIS
SEE SENSORY DEPRESSION, ELECTRONARCOSIS

NARCOSIS, INERT GAS
SEE INJURIES, DYSBARISM, INERT GAS NARCOSIS

NARCOTICS
SEE PSYCHOPHARMACOLOGICAL AGENTS, NARCOTICS

NASAL, NOSE
** P50HL-19157-02 0003 Studies in cystic fibrosis and bronchiolitis - Nasal mucosal function in patients with cystic fibrosis
P50HL-19157-02 0004 Studies in cystic fibrosis and bronchiolitis - Macromolecular regulators of mucus secretion--Invertebrate model

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

NASAL AIRFLOW MEASUREMENTS
SEE RESPIRATORY DISORDERS DIAGNOSIS, RESPIRATORY AIRFLOW MEASUREMENTS*

NASAL DISORDERS, EPISTAXIS
P01HL-17430-05 0001 Control of coagulation - Porcine von Willebrand's disease

NASAL DISORDERS, RHINITIS
R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)

NASAL SALT GLAND
SEE BODY FLUID BALANCE, IONIC, SALT GLAND

NASOPHARYNX
SEE ORAL-PHARYNGEAL, NASOPHARYNX

NATIONAL HIGH BLOOD PRESSURE EDUCATION RESEARCH PROGRAM COMMITTEE
** R25HL-18406-03 Adherence to hypertensive medical regimens (human)
** R25HL-18414-03 Hypertension--Family strategies for patient adherence
** R25HL-18418-03 Role of a supporting partner in adherence (human)
** R25HL-18424-03 Blood pressure education in an industrial setting (human)

NATRIURESIS
SEE KIDNEY FUNCTION, SALURESIS

NATURAL PRODUCTS
SEE ALSO BIOLOGICAL PREPARATIONS AND STANDARDIZATION
SEE ALSO PLANTS EXTRACTS
SEE ALSO PLANTS PROTEINS
R01HL-07502-13 Phytochemistry of the genus thalictrum (dogs, plants)
R01HL-12971-15 Reactions of alkoloids and their analogs
R01HL-17341-03 Practical total synthesis of prostaglandins
R01HL-18253-03 Structure of the palytoxins
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
R01HL-20016-03 Chelator development for thalassemia (human, mice, rats, dogs, monkeys)
R01HL-20579-02 Synthesis of therapeutically important alkaloids
P01HL-20993-02 0005 Population dynamics of arterial cells in atherogenesis - Drugs other than hypolipidemic drugs affecting atherosclerosis (swine, rabbits)
R01HL-22201-01 Pharmacology and chemistry of nudibranch toxins (guinea pigs, rats, mice)
R01HL-22778-01 Total synthesis of natural cardiotonic ionophores

NAUSEA
SEE GASTROINTESTINAL SIGNS-SYMPTOMS, NAUSEA

NEARSIGHTEDNESS
SEE EYE REFRACTIVE DISORDERS, MYOPIA

NECK AND HEAD INJURIES
SEE INJURIES, HEAD AND NECK

NECROCYTOSIS
SEE CELL DEATH

NECROSIS
SEE DISEASES, PATHOLOGIC PROCESSES, NECROSIS

NEGATIVE PRESSURE BREATHING
SEE RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, NEGATIVE PRESSURE BREATHING

NEGROES
SEE SOCIAL GROUPS, ETHNIC, AMERICANS, BLACK AMERICANS

NEGROID RACE
SEE SOCIAL GROUPS, RACIAL STOCKS, BLACK RACE

NEISSERIA MENINGITIDIS
SEE BACTERIA, NEISSERIACEAE, NEISSERIA MENINGITIDIS*

NEMATODE ANTIGENS
SEE IMMUNOLOGY, ANTIGENS HELMINTHIC

NEOMYCIN
SEE ANTIBIOTICS, NEOMYCIN

NEON
SEE GAS ELEMENTS, NEON

NEONATAL
SEE CHILDREN, INFANT NEWBORN (BIRTH TO 4-6 WKS)

NEONATAL MORTALITY
SEE CHILDREN, INFANT AND CHILD MORTALITY

NEONATAL MORTALITY, ANIMAL
SEE AGE (ANIMAL), INFANTS MORTALITY

NEOPLASMS
P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)

NEOPLASMS, ADENOMA
** P01HL-06835-17 0048 Cardiovascular disease - Aldosterone producing adenoma prediction of curability (human)
P01HL-06835-17 0049 Cardiovascular disease - Selective hypoaldosteronism (human)

NEOPLASMS, ASCITES TUMORS
SEE ALSO NEOPLASMS, CARCINOMA, EHRLICH TUMOR
R01HL-14781-08 Lipid deposition in mammalian cells (mice)

NEOPLASMS, CANCER COMPLICATIONS OF
P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)

NEOPLASMS, CANCER COMPLICATIONS OF, INFECTIONS
P60HL-17265-04 0009 Community blood resource center support - Research--Developing granulocyte transfusion therapy (human, rabbit)

NEOPLASMS, CARCINOMA, EHRLICH TUMOR
R01HL-15991-05 Evaluation of heart stimulants in sea anemones

NEOPLASMS, DRUG INDUCED
N01HV-62900-00 Study of breast cancer and reserpine use (human)

NEOPLASMS, EMBRYONIC
SEE ALSO NEOPLASMS OF URINARY TRACT, KIDNEY NEOPLASMS, NEPHROBLASTOMA
R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)

NEOPLASMS, VIRUS INDUCED
R23HL-19594-01 Tropocollagen and tropoelastin uptake in lung cells (human)

NEOPLASMS CHARACTERISTICS, MOLECULAR LEVEL STUDIES
R01HL-14781-08 Lipid deposition in mammalian cells (mice)
R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)

NEOPLASMS CLASSIFICATION AND STAGING
R01HL-16651-05 Evaluation of steroid therapy in sarcoidosis (human)

NEOPLASMS DIAGNOSIS
R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)
R01HL-12648-09 Catecholamine metabolism in hypertensive diseases (human)
R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
** P01HL-16748-05 0006 Cellular and immunological basis of pulmonary diseases - Sarcoidosis--Studies with bronchial lavage (human)
R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)
R01HL-19077-01 Biochemistry and molecular biology of sarcoidosis (human, rabbits)

NEOPLASMS DIAGNOSIS, BREAST NEOPLASMS DIAGNOSIS, MAMMOGRAPHY*
P01HL-04664-18 0007 Cardiovascular and lung dynamics - Development and application of ultrasound imaging techniques

NEOPLASMS DIAGNOSIS, RADIODIAGNOSIS
R01HL-18744-03 Preparation of radiopharmaceuticals from drug analogs
** R23HL-21253-01 Anatomical models in computer-aided image analysis
R01HL-22371-01 Vascular changes in lung exposed to radiation

NEOPLASMS DIAGNOSIS, RADIOISOTOPE DIAGNOSIS
R01HL-20761-02 Study of cerebral blood flow with stable xenon and computerized tomography

NEOPLASMS EPIDEMIOLOGY
SEE NEOPLASTIC DISEASE EPIDEMIOLOGY-STATISTICS

NEOPLASMS GENETICS
SEE ALSO NEOPLASMS CHARACTERISTICS, MOLECULAR LEVEL STUDIES
R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)

NEOPLASMS IMMUNOLOGY
** P01HL-09011-15 0013 A research and resource program in blood - A quantitative study of immunological enhancement (mice)
R01HL-19429-03 Phagocytosis--Ingestion in alveolar macrophages (rabbits)

NEOPLASMS IMMUNOLOGY, TUMOR ANTIBODIES
R01HL-10036-13 Biology of red cell antigen-antibody reaction (human)

NEOPLASMS IMMUNOLOGY, TUMOR ANTIGENS
R01HL-08696-15 0011 Orthotopic heart transplantation - Transplantation immunology--Immunodepressive factor (human, dogs)

NEOPLASMS METASTASIS
SEE NEOPLASTIC GROWTH, NEOPLASMS METASTASIS

NEOPLASMS OF BILIARY TRACT, LIVER NEOPLASMS, HEPATOMA
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
P01HL-22633-01 9001 Cellular and molecular biology of lipoprotein metabolism - Tissue culture core

NEOPLASMS OF BLOOD AND RE SYSTEM, BONE MARROW NEOPLASMS, MULTIPLE MYELOMA
R01HL-15722-06 Hemorrheology studies related to in vivo blood flow (human)
P01HL-19259-03 0001 Digoxin-specific antibody in human therapy - Primary structure of monoclonal antibodies (rabbits)

NEOPLASMS OF BLOOD AND RE SYSTEM, BONE MARROW NEOPLASMS, MYELOPROLIFERATIVE
** R01HL-12972-09 Glutathione deficiency in red cells (sheep, dogs)

NEOPLASMS OF BLOOD AND RE SYSTEM, HODGKIN'S DISEASE
P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease - Mitogenic and antigenic activation of lymphocyte sub-populations
** P01HL-06370-17 0018 Cardiopulmonary and renal pathology research center - Cytochemistry and immunology of lymphoproliferative disorders (human)

NEOPLASMS OF BLOOD AND RE SYSTEM, LEUKEMIA
R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)

NEOPLASMS OF BLOOD AND RE SYSTEM, LEUKEMIA, ERYTHROLEUKEMIA
R01HL-03357-21 Humoral control of blood cell formation and release (rats, mice)
P01HL-21016-02 0012 Sickle cell anemia and other hemoglobinopathies - Stimulation of Hb F synthesis in a permanent cell line

NEOPLASMS OF BLOOD AND RE SYSTEM, LEUKEMIA ACUTE
N01HB-62963-03 International bone marrow transplant registry
N01HB-62964-03 International bone marrow transplant registry
P60HL-17265-04 0009 Community blood resource center support - Research--Developing granulocyte transfusion therapy (human, rabbit)

NEOPLASMS OF BLOOD AND RE SYSTEM, LEUKEMIA CHRONIC
R01HL-20925-01 The acetylation of fetal hemoglobin (human)

NEOPLASMS OF BLOOD AND RE SYSTEM, LEUKEMIA MYELOID
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
R01HL-20856-02 Platelet transfusions--Usage and complications (human)
R01HL-20925-01 The acetylation of fetal hemoglobin (human)

NEOPLASMS OF BLOOD AND RE SYSTEM, LYMPHOMA
SEE ALSO NEOPLASMS OF BLOOD AND RE SYSTEM, HODGKIN'S DISEASE
SEE ALSO NERVOUS DISORDERS CENTRAL, MAREK'S DISEASE
P01HL-06370-17 0018 Cardiopulmonary and renal pathology research center - Cytochemistry and immunology of lymphoproliferative disorders (human)
R01HL-08696-15 0011 Orthotopic heart transplantation - Transplantation immunology--Immunodepressive factor (human, dogs)

NEOPLASMS OF BLOOD AND RE SYSTEM, LYMPHOSARCOMA
SEE ALSO NEOPLASMS OF BLOOD AND RE SYSTEM, HODGKIN'S DISEASE
** P01HL-06370-17 0018 Cardiopulmonary and renal pathology research center - Cytochemistry and immunology of lymphoproliferative disorders (human)

NEOPLASMS OF BLOOD AND RE SYSTEM, MAST CELL NEOPLASMS
R01HL-22402-01 Heparin-biophysical, chemical and biological aspects (mice, human)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

NEOPLASMS OF BRAIN
SEE ALSO NEOPLASMS OF NERVOUS SYSTEM
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)

NEOPLASMS OF CARDIOVASCULAR SYSTEM
R01HL-15781-06 Guided vascular obliteration of CNS vascular lesions (human)

NEOPLASMS OF CARDIOVASCULAR SYSTEM, HEMANGIOENDOTHELIOMA
P01HL-16851-04 0008 Human red cell membrane in health and disease - Force balance in red cell interactions (human)

NEOPLASMS OF CARDIOVASCULAR SYSTEM, HEMANGIOMA
P50HL-14230-07 0095 A/S SCOR--Lipids, atherosclerosis and thrombosis - Blood platelet adherence to endothelial smooth muscle cells, fibroblast (human)

NEOPLASMS OF ENDOCRINES
SEE ALSO NEOPLASMS OF NERVOUS SYSTEM, CARCINOID
SEE ALSO NEOPLASMS OF NERVOUS SYSTEM, PARAGANGLIA NEOPLASMS, PHEOCHROMOCYTOMA
R01HL-15808-06 Role of angiotensinogen in hypertension and stroke (human, rabbits)

NEOPLASMS OF ENDOCRINES, ADRENAL GLANDS NEOPLASMS
** P01HL-06835-17 0048 Cardiovascular disease - Aldosterone producing adenoma prediction of curability (human)
P01HL-06835-17 0049 Cardiovascular disease - Selective hypoaldosteronism (human)
R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
R01HL-13917-20 Secretion and effects of adrenal hormones (human, rabbits, sheep)

NEOPLASMS OF NERVOUS SYSTEM
SEE ALSO NEOPLASMS OF BRAIN
R01HL-12648-09 Catecholamine metabolism in hypertensive diseases (human)

NEOPLASMS OF NERVOUS SYSTEM, CARCINOID
** P01HL-14388-07 0230 Regulation of the circulation in pathological states - Effects of indomethacin in patients with carcinoid syndrome

NEOPLASMS OF NERVOUS SYSTEM, NEUROBLASTOMA
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)

NEOPLASMS OF NERVOUS SYSTEM, PARAGANGLIA NEOPLASMS, PHEOCHROMOCYTOMA
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
P50HL-14159-08 0024 Specialized center of research in hypertension - Core resources (clinical, animal models)
R01HL-18148-04 Adrenal catecholamine secretion

NEOPLASMS OF REPRODUCTIVE SYSTEM, BREAST NEOPLASMS
SEE ALSO NEOPLASMS, CARCINOMA, EHRLICH TUMOR
R01HL-15685-05 Hemopoietic regulators produced in cell culture (human, animals)
** N01HV-62900-00 Study of breast cancer and reserpine use (human)

NEOPLASMS OF REPRODUCTIVE SYSTEM MALE, PROSTATE NEOPLASMS
P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)

NEOPLASMS OF RESPIRATORY SYSTEM, BRONCHIAL NEOPLASMS
R01HL-22371-01 Vascular changes in lung exposed to radiation

NEOPLASMS OF RESPIRATORY SYSTEM, LUNG NEOPLASMS
SEE ALSO RESPIRATORY DISORDERS, PULMONARY FIBROSIS AND GRANULOMAS
P50HL-14153-07 0001 Johns Hopkins Lung Center--Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)
** R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
R23HL-19594-01 Tropocollagen and tropoelastin uptake in lung cells (human)
R01HL-20675-02 Alveolar macrophage function in man
R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
R23HL-21894-01 Pulmonary angiotensin converting enzyme (cattle)
R01HL-22302-01 Immuno responses in the human lung (also rabbits, monkeys)
** R01HL-22371-01 Vascular changes in lung exposed to radiation

NEOPLASMS OF SKELETAL SYSTEM, OSTEOGENIC SARCOMA
P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
R01HL-15526-05 Respiratory mechanics in children
R01HL-22371-01 Vascular changes in lung exposed to radiation

NEOPLASMS OF URINARY TRACT, KIDNEY NEOPLASMS, NEPHROBLASTOMA
R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)

NEOPLASMS RELATED INTEREST, GRANULOMA
SEE ALSO NEOPLASMS OF BLOOD AND RE SYSTEM, HODGKIN'S DISEASE
SEE ALSO RESPIRATORY DISORDERS, PULMONARY FIBROSIS AND GRANULOMAS
P01HL-16769-05 0003 Pathobiologic and host defense reactions in the lung - Pathobiologic mechanisms of delayed sensitivity reactions in the lung (animals)
P01HL-16769-05 0010 Pathobiologic and host defense reactions in the lung - Bronchus associated lymphoid tissue and delayed hypersensitivity (rabbits)
R01HL-19077-01 Biochemistry and molecular biology of sarcoidosis (human, rabbits)

NEOPLASMS RELATED INTEREST, SARCOIDOSIS
SEE ALSO VIRUSES, HERPESVIRUSES, EB VIRUS
P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
P50HL-15061-07 0006 Response of lung to injury - Complement synthesis by pulmonary macrophages (guinea pigs, human)
** R01HL-16651-05 Evaluation of steroid therapy in sarcoidosis (human)
** P01HL-16748-05 0006 Cellular and immunological basis of pulmonary diseases - Sarcoidosis--Studies with bronchial lavage (human)
M P01HL-16769-05 Pathobiologic and host defense reactions in the lung
** P01HL-16769-05 0007 Pathobiologic and host defense reactions in the lung - Immunogenetic factors in sarcoidosis (human)
** P01HL-16769-05 0009 Pathobiologic and host defense reactions in the lung - Electron microscopy and tissue culture core laboratory
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)
** P01HL-17813-04 0002 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Ultrastructural abnormalities (human)
** R01HL-19077-01 Biochemistry and molecular biology of sarcoidosis (human, rabbits)
P50HL-19171-02 0003 Pulmonary SCOR--Lung injury by childhood infections - Natural history, host defense defects--Children with chronic pulmonary disease
P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic
P01HL-19717-02 0041 Response of the lung to injury - Cellular immunity in interstitial lung disease (human)
R01HL-19731-03 Collagen in interstitial fibrosis of lung (human)
R01HL-20675-02 Alveolar macrophage function in man
R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
R23HL-21894-01 Pulmonary angiotensin converting enzyme (cattle)
** N01HR-62935-02 Histocompatibility antigens--Evolution of respiratory hypersensitivity (human)

NEOPLASMS RELATED INTEREST, SARCOIDOSIS, KVEIM FACTOR
** P01HL-16748-05 0006 Cellular and immunological basis of pulmonary diseases - Sarcoidosis--Studies with bronchial lavage (human)
P01HL-16769-05 0007 Pathobiologic and host defense reactions in the lung - Immunogenetic factors in sarcoidosis (human)
P01HL-16769-05 0009 Pathobiologic and host defense reactions in the lung - Electron microscopy and tissue culture core laboratory

NEOPLASMS STAGING
SEE NEOPLASMS CLASSIFICATION AND STAGING

NEOPLASMS SURGERY
** P01HL-06835-17 0048 Cardiovascular disease - Aldosterone producing adenoma prediction of curability (human)
P01HL-06835-17 0049 Cardiovascular disease - Selective hypoaldosteronism (human)

NEOPLASMS TRANSPLANTATION
P01HL-09011-15 0013 A research and resource program in blood - A quantitative study of immunological enhancement (mice)
R01HL-18148-04 Adrenal catecholamine secretion

NEOPLASMS VASCULAR SUPPLY
R01HL-22371-01 Vascular changes in lung exposed to radiation

NEOPLASMS VASCULAR SUPPLY, TUMOR ANGIOGENESIS FACTOR
R01HL-17747-04 Endothelial injury and regeneration (rats)
R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)

NEOPLASTIC ANTIBODIES
SEE NEOPLASMS IMMUNOLOGY, TUMOR ANTIBODIES

NEOPLASTIC ANTIGENS
SEE NEOPLASMS IMMUNOLOGY, TUMOR ANTIGENS

NEOPLASTIC CELLS
R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
R01HL-18148-04 Adrenal catecholamine secretion
** P01HL-18827-02 0003 Platelet vessel wall interactions in thrombogenesis - Tumor cell and platelets in thrombogenesis and metastasis (human, animals)

NEOPLASTIC CELLS, HELA CELLS
R01HL-13630-08 Control of glycogen synthesis in heart (cattle)

NEOPLASTIC DISEASE EPIDEMIOLOGY-STATISTICS
P01HL-14388-07 9004 Regulation of the circulation in pathological states - Core biostatistics unit
** R01HL-16651-05 Evaluation of steroid therapy in sarcoidosis (human)
** R01HL-22472-01 Smoking risk-factor reduction--Maintenance strategies (human)
** N01HV-62900-00 Study of breast cancer and reserpine use (human)

NEOPLASTIC GROWTH
P01HL-09011-15 0013 A research and resource program in blood - A quantitative study of immunological enhancement (mice)
R01HL-17747-04 Endothelial injury and regeneration (rats)

NEOPLASTIC GROWTH, NEOPLASMS METASTASIS
P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)
R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)
** P01HL-18827-02 0003 Platelet vessel wall interactions in thrombogenesis - Tumor cell and platelets in thrombogenesis and metastasis (human, animals)
R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)

NEOPLASTIC THERAPY
SEE ALSO NEOPLASMS SURGERY
R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)

NEOPLASTIC THERAPY, ANTINEOPLASTIC AGENTS
SEE ALSO ANTIBIOTICS, ANTINEOPLASTIC ANTIBIOTICS (GENERAL)
SEE ALSO NEOPLASTIC THERAPY, CANCER CHEMOTHERAPY
R01HL-07502-13 Phytochemistry of the genus thalictrum (dogs, plants)
R01HL-12971-15 Reactions of alkoloids and their analogs
R01HL-18245-03 Transition state analog inhibitors of thrombin (human, cattle)
R01HL-18253-03 Structure of the palytoxins
R01HL-22532-01 Inhibitors of cholesterol biosynthesis (rats, mice, yeast)

NEOPLASTIC THERAPY, CANCER CHEMOTHERAPY
** P01HL-14388-07 0230 Regulation of the circulation in pathological states - Effects of indomethacin in patients with carcinoid syndrome
R01HL-15526-05 Respiratory mechanics in children
R01HL-16651-05 Evaluation of steroid therapy in sarcoidosis (human)
R01HL-18259-03 Controlled intratissue release of prostaglandins
R01HL-19077-01 Biochemistry and molecular biology of sarcoidosis (human, rabbits)
R01HL-20856-02 Platelet transfusions--Usage and complications (human)

NEOPLASTIC THERAPY, CANCER RADIOTHERAPY
R01HL-15526-05 Respiratory mechanics in children
** R01HL-22371-01 Vascular changes in lung exposed to radiation

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

NEOPLASTIC TRANSFORMATION
R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
** R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
P01HL-16769-05 0010 Pathobiologic and host defense reactions in the lung - Bronchus associated lymphoid tissue and delayed hypersensitivity (rabbits)

NEOPLASTIC TRANSFORMATION, CARCINOGENESIS, CHEMICAL
R01HL-17921-04 Peroxy radicals to prostaglandins in vessels and lung

NEOPLASTIC TRANSFORMATION, CARCINOGENS (GENERAL)
SEE ALSO GENETICS, MUTAGENS
SEE ALSD PLANTS EXTRACTS
R01HL-19654-03 Biochemical-pharmacological evaluation of lung cells (rabbits)

NEOPLASTIC TRANSFORMATION, CARCINOGENS, CHEMICAL
P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury - Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)
P01HL-09011-15 0021 A research and resource program in blood - Regulation of transfer RNA methylating enzymes (rats, E coli)
R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)

NEOSTIGMINE
SEE PHENYLAMINES, NEDSTIGMINE

NEOSYNEPHRINE
SEE PHENOLIC AMINES, NEOSYNEPHRINE

NEPHRECTOMY
SEE KIDNEY SURGERY, NEPHRECTDMY

NEPHRITIS
SEE KIDNEY OISDRDERS, NEPHRITIS

NEPHRITIS INTERSTITIAL
SEE KIDNEY OISORDERS, NEPHRITIS INTERSTITIAL

NEPHROBLASTOMA
SEE NEOPLASMS OF URINARY TRACT, KIDNEY NEDPLASMS, NEPHROBLASTDMA

NEPHRON
SEE KIDNEY, RENAL TUBULES

NEPHROSCLEROSIS
SEE KIONEY OISDRDERS, NEPHRDSCLEROSIS

NEPHROSCLEROSIS (ARTERIOLAR)
SEE KIDNEY DISORDERS, NEPHRDSCLERDSIS

NEPHROSIS
SEE KIDNEY DISDRDERS, NEPHROSIS

NEPHROTIC SYNDROME
SEE KIDNEY DISDRDERS, NEPHRDTIC SYNDRDME

NEPHROTOXINS
SEE KIDNEY TDXINS, NEPHRDTOXINS

NERVE CELLS
SEE NERVDUS SYSTEM, NEUROGLIA
SEE NERVOUS SYSTEM, NEURDNS

NERVE ENDINGS (GENERAL)
SEE NERVOUS SYSTEM, NERVE ENDINGS (GENERAL)

NERVE GROWTH FACTOR
SEE ALSD NEURDSURGERY, SYMPATHECTDMY, IMMUNDSYMPATHECTDMY
RD1HL-2D604-03 Sympathectomy--Cardiovascular and molecular pharmacology (animals)
** R01HL-20610-02 Nerve growth factor and obstructive cardiomyopathy (dogs)

NERVE IMPULSE FACILITATION
SEE NEUROPHYSIOLOGY, NERVE IMPULSE FACILITATION

NERVE IMPULSE INHIBITION
SEE NEUROPHYSIDLDGY, NERVE IMPULSE INHIBITION

NERVE IMPULSE INITIATION
SEE NEUROPHYSIOLOGY, NERVE IMPULSE INITIATIDN

NERVE REGENERATION
SEE NERVDUS SYSTEM REGENERATIDN

NERVES (GENERAL)
SEE NERVDUS SYSTEM, NERVES (GENERAL)

NERVES DEGENERATION
SEE NERVOUS DISORDERS, NERVES DEGENERATION

NERVOUS DISORDERS (GENERAL)
SEE ALSO NEUROLOGIC MANIFESTATIONS
SEE ALSD NEURDMOTOR DISDRDERS
P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique
** P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)
R01HL-16325-03 Breathing patterns in man
R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase

NERVOUS DISORDERS, MYELINOPATHIES (GENERAL)
SEE ALSD LIPDGRANULDMATOSES, CEREBRDTENDINDUS XANTHDMATOSIS
R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
** R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
R01HL-20400-03 Diabetic neuropathy and peripheral vascular diseases (human, hamsters)

NERVOUS DISORDERS, MYELINOPATHIES, MULTIPLE SCLEROSIS
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)

NERVOUS DISORDERS, NERVES DEGENERATION
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
R01HL-20400-03 Diabetic neuropathy and peripheral vascular diseases (human, hamsters)

NERVOUS DISORDERS AUTONOMIC (GENERAL)
SEE ALSD CDNGENITAL ABNDRMALITIES, NEUROLDGICAL, DYSAUTONOMIA FAMILIAL
P01HL-14388-07 0164 Regulation of the circulation in pathological states - Hyperkinetic heart syndrome (human)
** R01HL-15677-06 Autonomic nervous system function in bronchial asthma (human, guinea pig, rabbit)
R01HL-16784-03 Lung tissue and water volume (human, dogs)
R01HL-19467-03 Regulation of blood pressure (rats, dogs)
R01HL-20400-03 Diabetic neuropathy and peripheral vascular diseases (human, hamsters)
R01HL-22581-02 Neurocirculatory control in diabetes mellitus (human)

NERVOUS DISORDERS CENTRAL (GENERAL)
SEE ALSD BRAIN DISORDERS
SEE ALSO CAROIOVASCULAR DISORDERS, HYPERTENSIDN (SYSTEMIC), NEUROGENIC HYPERTENSION
SEE ALSO NERVDUS DISORDERS, MYELINDPATHIES (GENERAL)
SEE ALSD NEUROMOTOR DISORDERS
PD1HL-D8899-14 0032 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures upon respiratory control
P01HL-14388-07 D179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
R01HL-15781-D6 Guided vascular obliteration of CNS vascular lesions (human)
** RD1HL-20724-01 Behavioral consequences of hypertension (human)

NERVOUS DISORDERS CENTRAL, MAREK'S DISEASE
** R01HL-19381-D3 Pathogenesis of viral induced atherosclerosis (human, chicken)

NERVOUS DISORDERS CENTRAL, MENINGITIS BACTERIAL
SEE ALSO BACTERIA, NEISSERIACEAE, NEISSERIA MENINGITIDIS*
** PD1HL-D635D-17 D019 Hemostasis research program project - Microcirculation (human, rats, rabbits)
P60HL-15162-07 0021 Comprehensive sickle cell center - Pneumococcal vaccine in sickle cell disease (children)
RD1HL-20314-02 Host defense against S pheumoniae in sickle cell disease (human)
P60HL-20985-01 0002 Northern California sickle cell center - Immunization with polyvalent pneumococcal polysaccharide vaccine (human)

NERVOUS DISORDERS CHEMOTHERAPY
SEE ALSD NEURDMOTDR OISDRDERS CHEMOTHERAPY
SEE ALSD NEURDPHARMACOLDGY
R01HL-22258-D1 New aspects of pharmacology related to carbonic anhydrase

NERVOUS DISORDERS DIAGNOSIS (INCL EXAMS)*
SEE ALSD BRAIN ELECTRICAL ACTIVITY
SEE ALSO BRAIN MAPPING
SEE ALSO NERVOUS SYSTEM CENTRAL, SPINAL CDRD MAPPING
SEE ALSO NEURDMOTOR DISORDERS OIAGNOSIS (INCL EXAMS)*
SEE ALSD NEURDPSYCHDLOGICAL TESTS*
PD1HL-D4664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique
** P50HL-14218-07 0015 Pulmonary SCOR--Newborn lung center - Long term follow-up of infants surviving ROS--Neurological outcome (human)

NERVOUS DISORDERS EPIDEMIOLOGY
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
** R01HL-20724-01 Behavioral consequences of hypertension (human)

NERVOUS DISORDERS PERIPHERAL
SEE ALSD CARBDHYDRATES METABDLISM DISORDERS, DIABETIC NEURDPATHIES
R01HL-20400-03 Diabetic neuropathy and peripheral vascular diseases (human, hamsters)

NERVOUS NEOPLASMS
SEE NEOPLASMS OF NERVOUS SYSTEM

NERVOUS SYSTEM
SEE ALSD BRAIN
SEE ALSD SENSE DRGANS
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)

NERVOUS SYSTEM, AFFERENT NERVES
R01HL-05883-18 0004 Reflex control of resistance and capacitance vessels - Left ventricular receptors with nonmedullated vagal afferents (cats)
R01HL-05883-18 0005 Reflex control of resistance and capacitance vessels - Differential blockade of medullated and non-medullated vagal afferents in the cat
R01HL-05883-18 0006 Reflex control of resistance and capacitance vessels - Cardiopulmonary vagal afferents in the conscious dog
** P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
P01HL-06296-18 0007 Cardiovascular and pulmonary adaptation to stress - Cardiovascular control during isometric exercise (cats)
** P01HL-08682-15 0018 Regulation of the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)
PD1HL-08682-15 DD22 Regulation of the cardiovascular system - Blood pressure responses and preganglionic sympathetic outflow (cat)
P01HL-D8805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
RD1HL-13427-09 Neural control of blood volume (monkeys, dogs)
R01HL-13888-15 Regulation of respiration
P01HL-14388-07 0155 Regulation of the circulation in pathological states - Cardiopulmonary afferent activity, carotid chemo-baroreceptor reflexes
P01HL-14388-07 D179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
PD1HL-14388-07 018D Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
PD1HL-14388-07 D185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
PD1HL-14388-D7 0195 Regulation of the circulation in pathological states - General review of potential pathophysiologic factors in spontaneous hypertension
P01HL-14388-07 D213 Regulation of the circulation in pathological states - Regulation of the heart and peripheral circulation in heart failure
R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
** RD1HL-16511-D4 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
** RD1HL-17715-04 Respiratory muscle afferents in respiratory control (cats)
RD1HL-178DD-D4 Pulmonary reflexes--Central pathways (cats, dogs, rabbits)
RD1HL-18371-D3 Pulmonary hypertension and ventilation pathophysiology (dogs)
RD1HL-18994-03 Substance P--Occurrence, pharmacology and physiology (mammals non-human, human)
RD1HL-19048-D3 Structure of baroreceptors in hypertension (rats)
P5DHL-19156-02 DD05 Pulmonary SCDR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
PD1HL-19737-02 0011 Cellular and molecular aspects of respiratory physiology - Chemical and metabolic factors on peripheral chemoreceptor activity (cats)
R01HL-19827-02 Role of the upper airways in the control of breathing (human, cats, dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-19995-02 Sensory transduction in cardiac mechanoreceptors (catso frogs, rats)
R01HL-20548-02 Innervation of the lung (rats, monkeys)
R01HL-20800-17 Neural basis of respiratory and vasomotor activity (cats)
R01HL-20864-01 Postnatal maturation of cardiovascular regulatory system (minipig)
** R23HL-21042-01 Cardiopulmonary reflexes and their anatomical basis (dogs)
** R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
R01HL-21351-02 Renal and vascular control by sympathetic ganglia (animals)
** R01HL-21436-02 Autonomic control of renal function (cats)
R23HL-22245-02 Functional characteristics of atrial receptors (rats)
R01HL-22482-01 Circulatory hemodynamics and sodium excretion (dogs)
R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)
** R01HL-22732-01 Central organization of cardiac afferent nerves (cats, monkeys)
R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)

NERVOUS SYSTEM, AFFERENT NERVES, CUTANEOUS SENSORY NERVES

P01HL-08899-14 0078 Tolerance to respiratory gases in health and disease - Isobaric gas counterdiffusion--Sensory, cutaneous and systemic function (animals)

NERVOUS SYSTEM, AFFERENT NERVES, SOMATIC AFFERENT NERVES

P01HL-08682-15 0024 Regulation of the cardiovascular system - Morphology of the spinal sympathetic system (cat)

NERVOUS SYSTEM, AFFERENT NERVES, VISCERAL AFFERENT NERVES

** P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
P01HL-08682-15 0024 Regulation of the cardiovascular system - Morphology of the spinal sympathetic system (cat)
** R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
R01HL-22732-01 Central organization of cardiac afferent nerves (cats, monkeys)

NERVOUS SYSTEM, CRANIAL NERVES, LARYNGEAL NERVES

P50HL-14214-07 0027 Newborn lung center for hyaline membrane disease - Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep)
R01HL-19827-02 Role of the upper airways in the control of breathing (human, cats, dogs)

NERVOUS SYSTEM, CRANIAL NERVES, TRIGEMINAL NERVE

P50HL-14214-07 0029 Newborn lung center for hyaline membrane disease - The diving reflex--Perinatal asphyxia, pulmonary ischemia and HMO (sheep)

NERVOUS SYSTEM, CRANIAL NERVES, VAGUS

R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
R01HL-05883-18 0004 Reflex control of resistance and capacitance vessels - Left ventricular receptors with nonmedullated vagal afferents (cats)
R01HL-05883-18 0005 Reflex control of resistance and capacitance vessels - Differential blockade of medullated and non-medullated vagal afferents in the cat
R01HL-05883-18 0006 Reflex control of resistance and capacitance vessels - Cardiopulmonary vagal afferents in the conscious dog
** P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
** P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
P01HL-06285-18 0189 Cardiovascular-respiratory physiology and biochemistry - Mucociliary clearance (cats, dogs)
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
** P01HL-08682-15 0015 Regulation of the cardiovascular system - Projection of autonomic nerves onto the heart (dog)
P01HL-08682-15 0016 Regulation of the cardiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)
P01HL-08682-15 0017 Regulation of the cardiovascular system - Neurally induced cardiac dysrhythmias (dog)
** R01HL-10951-11 Neural control of the heart (dogs, rats)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
** R01HL-13888-15 Regulation of respiration
P50HL-14214-07 0022 Newborn lung center for hyaline membrane disease - Functional integrity of surfactant system--Hyaline membrane disease (lamb, rat)
P01HL-14388-07 0155 Regulation of the circulation in pathological states - Cardiopulmonary afferent activity, carotid chemo-baroreceptor reflexes
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0213 Regulation of the circulation in pathological states - Regulation of the heart and peripheral circulation in heart failure
P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
R01HL-15758-06 Catecholamine release in the heart (dogs)
R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
R01HL-16657-06 Innervation of coronary arteries and heart (rats)
R01HL-17314-04 Effects of anesthesia and loading on respiration (human, cats)
R01HL-17799-02 The presence and significance of heart acetylcholine (cats)
R01HL-17800-04 Pulmonary reflexes--Central pathways (cats, dogs, rabbits)
R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)
** R01HL-19076-03 Vagal control of heart rate--A biophysical model (rabbits)
P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
** P50HL-19156-02 0005 Pulmonary SCOR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
P50HL-19170-02 0003 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanisms of bronchial reactivity to acute and chronic airway challenge (dog)
** P50HL-19185-02 0003 Pulmonary SCOR--Neonatal respiratory distress syndromes - Factors affecting formation and release of pulmonary surfactant in fetal lambs
R01HL-19487-03 Cardiac actions of digitalis (dogs, cats)
R01HL-20328-01 Noninvasive assessment of autonomic cardiac control (dogs)
** R01HL-20572-02 0008 Hemodynamic relations to metabolism in hypertension - Role of nervous system in hemodynamic function
R23HL-21042-01 Cardiopulmonary reflexes and their anatomical basis (dogs)
** R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
R23HL-22245-02 Functional characteristics of atrial receptors (rats)
R01HL-22482-01 Circulatory hemodynamics and sodium excretion (dogs)
** R01HL-22484-01 Neural control of cardiac conduction and excitation (dogs)
R23HL-22728-01 Neural control of renin secretion (dogs)
R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)
R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)
R23HL-22920-01 Dynamic airway behavior (dogs)
R01HL-22924-01 The airway mucosal barrier (guinea pigs)

NERVOUS SYSTEM, EFFERENT NERVES

SEE ALSO NERVOUS SYSTEM, NEUROEFFECTORS
** P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
R01HL-19048-03 Structure of baroreceptors in hypertension (rats)
R01HL-20122-02 Operational mechanisms of airway receptors (dogs, pigs)
R01HL-22667-01 Mechanisms of baroreceptor adaptation in hypertension (dogs)

NERVOUS SYSTEM, GANGLIA

SEE ALSO NERVOUS SYSTEM, PARAGANGLIA
SEE ALSO NERVOUS SYSTEM AUTONOMIC, AUTONOMIC GANGLIA
P01HL-14388-07 0202 Regulation of the circulation in pathological states - Development of hypertension in spontaneously hypertensive rats
P01HL-14388-07 0211 Regulation of the circulation in pathological states - Choline acetyltransferase activity (rats)
P01HL-14388-07 0213 Regulation of the circulation in pathological states - Regulation of the heart and peripheral circulation in heart failure
R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
R23HL-21042-01 Cardiopulmonary reflexes and their anatomical basis (dogs)
R23HL-21914-01 Studies of vasomotor control (rats)
R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)

NERVOUS SYSTEM, GANGLIA, PREGANGLIONIC FIBERS

P01HL-08682-15 0022 Regulation of the cardiovascular system - Blood pressure responses and preganglionic sympathetic outflow (cat)
P01HL-08682-15 0024 Regulation of the cardiovascular system - Morphology of the spinal sympathetic system (cat)
** P01HL-08682-15 0025 Regulation of the cardiovascular system - Physiology of preganglionic cell bodies (cat)

NERVOUS SYSTEM, MYELINATION

P01HL-08214-15 0027 Chemical and biological properties of lipids - Biological functions diol lipids (swine, rats, plants)

NERVOUS SYSTEM, NERVE ENDINGS (GENERAL)

P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
R01HL-18185-04 Cardiac glycosides and diuretics--Role of Na0 pump (dogs)
R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)
R01HL-19379-03 Characterization of small-granule cells in the lung (mammals)
** R01HL-21099-02 Subcellular changes of blood vessels in hypertension (rats)

NERVOUS SYSTEM, NERVE ENDINGS, SYNAPSES

P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
** P01HL-07896-15 0052 Environmental biomedical research program - Effects of hypoxia on cerebral function
P01HL-08682-15 0025 Regulation of the cardiovascular system - Physiology of preganglionic cell bodies (cat)
P01HL-14388-07 0194 Regulation of the circulation in pathological states - Dopamine-beta-hydroxylase localization and release in hypertension
P01HL-14388-07 0211 Regulation of the circulation in pathological states - Choline acetyltransferase activity (rats)
P01HL-16117-05 0006 Ion movements and membranes in cardiovascular control - Neuroreceptors and cellular excitation (fish)
** R01HL-17370-03 Synaptic chemistry and cardioregulation in Limulus
R01HL-20548-02 Innervation of the lung (rats, monkeys)
R01HL-21195-02 Innervation of the heart--Acetylcholine receptors (frogs)
R01HL-21351-02 Renal and vascular control by sympathetic ganglia (animals)
** R01HL-22170-01 Factors influencing transmission at adrenergic synpases
R01HL-22767-01 Model system for cardiac action potentials (squid, axons)

NERVOUS SYSTEM, NERVE ENDINGS, SYNAPTIC VESICLES

P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
R01HL-20446-02 Autonomic neuropathy in diabetic mice (also rats)

NERVOUS SYSTEM, NERVE ENDINGS, SYNAPTOSOMES

R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
P01HL-11310-12 0097 Mechanisms of cardiovascular disease - Structural-functional relationships of neuronal differential alloantigens (mice)
** P01HL-11310-12 0098 Mechanisms of cardiovascular disease - Protein chemistry of thy-1 and related synaptosomal proteins (mice)
** P01HL-11310-12 0099 Mechanisms of cardiovascular disease - Carbohydrate chemistry of thy-1 and related synaptosomal proteins
R01HL-16436-04 Role of calcium and thyroxine in heart function (rats)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

NERVOUS SYSTEM, NERVES (GENERAL)

P01HL-06312-17 0033 Surgical cardiology - Studies in cryopreservations (rats)

NERVOUS SYSTEM, NERVES, INNERVATION (GENERAL)

SEE ALSO NERVOUS SYSTEM AUTONOMIC, HEART INNERVATION

R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
P01HL-06835-17 0043 Cardiovascular disease - Left atrial receptor activity by the sympathetic nervous system (dogs)
R01HL-08696-15 0020 Orthotopic heart transplantation - Complete cardiopulmonary transplantation (dogs)
P01HL-08805-15 0039 Regulation of ventilation and pulmonary circulation - Carotid body (cats)
P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications - Myocardial cells in tissue culture (rats, chick embryo)
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
R01HL-15805-06 Cerebral arterial tone and reactivity (rabbits)
R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
R01HL-17596-03 Leukocyte-endothelial interactions (rats)
R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)
P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)
R01HL-19048-03 Structure of baroreceptors in hypertension (rats)
R01HL-19275-03 Characterization of collateral blood vessels (dogs)
R01HL-19379-03 Characterization of small-granule cells in the lung (mammals)
R01HL-20400-03 Diabetic neuropathy and peripheral vascular diseases (human, hamsters)
R01HL-20446-02 Autonomic neuropathy in diabetic mice (also rats)
** R01HL-20548-02 Innervation of the lung (rats, monkeys)
** P01HL-20581-01 0001 Vascular neuroeffector mechanisms in health and disease - Vascular neuroeffector mechanism (rabbits)
** P01HL-20581-01 0002 Vascular neuroeffector mechanisms in health and disease - Trophic interaction between adrenergic nerves and vascular smooth muscle
** P01HL-20581-01 0003 Vascular neuroeffector mechanisms in health and disease - Cerebrovascular neuroeffector characteristics (animals)
** P01HL-20581-01 0004 Vascular neuroeffector mechanisms in health and disease - Neuroeffector characteristics of mesenteric and pulmonary blood vessels (rabbits)
** P01HL-20581-01 0005 Vascular neuroeffector mechanisms in health and disease - Changes in the neuroeffector mechanism in hypertension (rabbits)
R23HL-21042-01 Cardiopulmonary reflexes and their anatomical basis (dogs)
R23HL-22728-01 Neural control of renin secretion (dogs)
** R01HL-22784-01 Ductus arteriosus closure--An arterial lesion model (rabbits)
R01HL-23604-01 Hepatic microvascular regulatory mechanisms (rat)

NERVOUS SYSTEM, NEUROEFFECTORS

SEE ALSO NEUROMOTOR SYSTEM, NEUROMUSCULAR JUNCTION

** R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
P01HL-08682-15 0025 Regulation of the cardiovascular system - Physiology of preganglionic cell bodies (cat)
R01HL-20548-02 Innervation of the lung (rats, monkeys)

NERVOUS SYSTEM, NEUROGENESIS

SEE ALSO NERVOUS SYSTEM REGENERATION

R01HL-01755-25 Fetal and neonatal cardiovascular function (sheep)
P01HL-11310-12 0097 Mechanisms of cardiovascular disease - Structural-functional relationships of neuronal differential alloantigens (mice)
P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications - Myocardial cells in tissue culture (rats, chick embryo)
** R01HL-18657-03 Pharmacologic studies on neurogenic digitalis effects (human, cats, dogs)
R01HL-20548-02 Innervation of the lung (rats, monkeys)
** R01HL-22226-01 Autonomic nervous elements in the developing heart (rabbits)

NERVOUS SYSTEM, NEUROGLIA

R01HL-18351-03 Brain metabolism, acid-base balance, and respiration
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)

NERVOUS SYSTEM, NEURONS

SEE ALSO BRAIN, CEREBELLAR CORTEX, PURKINJE CELLS
SEE ALSO BRAIN CELLS
SEE ALSO NERVOUS SYSTEM, NERVE ENDINGS (GENERAL)
SEE ALSO NEUROMOTOR SYSTEM, MOTOR NEURONS

R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
** P01HL-11310-12 0097 Mechanisms of cardiovascular disease - Structural-functional relationships of neuronal differential alloantigens (mice)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
P01HL-14388-07 0212 Regulation of the circulation in pathological states - Role of dopamine in autonomic activity
R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
** R01HL-16648-16 Integrated control of cardiovascular activity (cats)
** P01HL-16878-05 0003 Control of ventilation in health and disease - Brain stem respiratory neurons in response mechanical/chemical loading (animal)
** P01HL-16878-05 0004 Control of ventilation in health and disease - Neurotransmitters in the respiratory system (cats)
P50HL-17648-04 0028 Study of ischemic heart disease - Electrophysiology of sympathetic innervation in tissue culture
R01HL-17800-04 Pulmonary reflexes--Central pathways (cats, dogs, rabbits)
R01HL-18351-03 Brain metabolism, acid-base balance, and respiration
P01HL-18974-03 0012 Experimental neurogenic hypertension program - Immunohistochemistry of central monoamine neurons (rats)
** R01HL-20254-02 Probes of heart and nerve membranes--Fluorescent dyes
R01HL-20800-17 Neural basis of respiratory and vasomotor activity (cats)
R01HL-22418-01 Neural control of cardio-respiratory function (cats)

NERVOUS SYSTEM, NEURONS, AXONS

R01HL-01974-24 Ion-pump in the erythrocyte (rabbits, guinea pigs)
P01HL-14388-07 9003 Regulation of the circulation in pathological states - Electron probe projects
R23HL-21213-01 A model for calcium homeostasis in excitable tissue (marine worms)
R01HL-22201-01 Pharmacology and chemistry of nudibranch toxins (guinea pigs, rats, mice)
R23HL-22245-02 Functional characteristics of atrial receptors (rats)
R01HL-22767-01 Model system for cardiac action potentials (squid, axons)

NERVOUS SYSTEM, NEURONS, AXOPLASMIC FLOW

R01HL-20446-02 Autonomic neuropathy in diabetic mice (also rats)
R01HL-21860-18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)

NERVOUS SYSTEM, NEURONS, NEUROFIBRILS

P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique
R01HL-05883-18 0005 Reflex control of resistance and capacitance vessels - Differential blockade of medullated and non-medullated vagal afferents in the cat
R01HL-05883-18 0006 Reflex control of resistance and capacitance vessels - Cardiopulmonary vagal afferents in the conscious dog
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)

NERVOUS SYSTEM, NEURONS, NEUROPIL

P01HL-06314-17 0052 Immunologic mechanisms in cardiovascular disease - Role of cyclic nucleotides in neutrophil function (human)

NERVOUS SYSTEM, PARAGANGLIA

SEE ALSO ADRENAL MEDULLA

P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
P01HL-14388-07 0212 Regulation of the circulation in pathological states - Role of dopamine in autonomic activity
R01HL-18148-04 Adrenal catecholamine secretion

NERVOUS SYSTEM, PARAGANGLIA, AORTIC BODY

** P01HL-10342-13 0026 The integrated function of respiration and circulation - Control of respiration--Characterization of the aortic body (cats)
P01HL-10342-13 0027 The integrated function of respiration and circulation - Control of respiration--Cardiovascular adjustment to hypoxia and carbon monoxide

NERVOUS SYSTEM, PARAGANGLIA, CAROTID BODY

R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
** P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
** P01HL-08805-15 0039 Regulation of ventilation and pulmonary circulation - Carotid body (cats)
** P01HL-10342-13 0011 The integrated function of respiration and circulation - Control of respiration 1--Peripheral chemoreceptor studies (cats)
P01HL-11678-11 0009 Cardiovascular dynamics and their control - Control of respiration (cat, human)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
R01HL-12564-09 Control of respiration and blood gases (human, dog)
R01HL-13134-07 Mechanism of chemoreceptor discharge (cats)
R01HL-14967-06 Chemoreceptor function in dynamic ventilatory control (human, dogs)
** R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
R01HL-16828-04 Gradient and transport of oxygen in tissue and organs (mammals)
R01HL-19410-03 Dynamic interrelations underlying exercise hyperpnea (human)
R01HL-20574-03 Brain stem integration of chemoreceptor activity (cats)
R01HL-21172-02 Regional oxygen consumption of heart and other organs (animals)

NERVOUS SYSTEM, PERIPHERAL NERVES (GENERAL)

SEE ALSO NERVOUS DISORDERS PERIPHERAL

** P01HL-08805-15 0046 Regulation of ventilation and pulmonary circulation - Sites and modes of interaction of peripheral and central chemoreceptors
** P01HL-13480-09 0026 Cardiac electrophysiology - Neural influences on cardiac electrophysiology and contraction (dog, cat)
P01HL-14388-07 0203 Regulation of the circulation in pathological states - Activation of sympathetic nervous systems in spontaneously hyperactive rats
R01HL-17314-04 Effects of anesthesia and loading on respiration (human, cats)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
R01HL-19257-03 Cardiovascular adjustment to behavioral stress (dog)
R01HL-19379-03 Characterization of small-granule cells in the lung (mammals)
R01HL-20381-03 Long-term study of diabetic vascular disease (human)
R01HL-22170-01 Factors influencing transmission at adrenergic synpases
R01HL-23601-01 Early hypoxia and development of respiratory control

NERVOUS SYSTEM, SPINAL NERVES

** R01HL-22732-01 Central organization of cardiac afferent nerves (cats, monkeys)

NERVOUS SYSTEM, SPINAL NERVES, PHRENIC NERVE

R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)
** P01HL-08682-15 0037 Regulation of the cardiovascular system - Central nervous regulation of cardiopulmonary mechanisms (cats)
R01HL-08696-15 0020 Orthotopic heart transplantation - Complete cardiopulmonary transplantation (dogs)
P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
P01HL-08805-15 0047 Regulation of ventilation and pulmonary circulation - Extracranial metabolic control of ventilation (dogs, goats)
R01HL-18007-05 Neural mechanisms controling motor act of breathing (cats, human)
** R01HL-22844-01 Phrenic nerve pacing--Noninvasive diaphragm analysis (human, dogs)
R01HL-23985-01 Role of the diaphragm in regional lung mechanics (dogs)

NERVOUS SYSTEM AUTONOMIC

SEE ALSO NERVOUS DISORDERS AUTONOMIC (GENERAL)

R01HL-02953-17 Autonomic and cardiovascular pharmacology (rats, rabbits, dogs, guinea pigs)
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P01HL-06285-18 0125 Cerdiovescular-respiratory physiology and biochemistry - Myocardial function in the fetel and neonatel lamb
** P01HL-06285-18 0188 Cardiovasculer-respiretory physiology and biochemistry - Physiology and pharmacology in reguletion of eirways-hyperirritebility (animels)
P01HL-06285-18 0189 Cerdiovascular-respiratory physiology and biochemistry - Mucociliary clearance (cats, dogs)
** P01HL-06308-18 0037 Mechenisms end therapy of circulatory diseese - Electrophysiology, blood flow, and ANS in ventriculer tibrillation (dogs)
** P01HL-06308-18 0039 Mechanisms and therapy of circulatory disease - ANS in regulation of electrophysiology--Role of cyclic nulceotides (animals)
P01HL-06312-17 0028 Surgical cardiology - Coronary flow in the transplanted denervated heart (dogs)
R01HL-07047-16 Comparative study of cardiac conduction system (human, birds, mammals)
** R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
P01HL-10342-13 0028 The integrated function ot respiration end circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
R01HL-12607-10 Dynamics ot pulsatile blood flow (human, dogs, rats)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
** P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
** P01HL-13108-09 0020 Clinical heart transplantation - Autonomic neural studies in the denervated heart (human)
** P01HL-13108-09 0021 Clinical heart transplantation - Autonomic reflex regulation of ventricular function (human)
** R01HL-13339-08 Pharmacology ot developing cardiac tissues (chick embryo)
R01HL-13634-08 Renal hypertension in pregnancy (sheep)
** P01HL-14388-07 0211 Regulation of the circulation in pathological states - Choline acetyltransferase activity (rats)
** P01HL-14388-07 0212 Regulation of the circulation in pathological states - Role of dopamine in autonomic activity
** P01HL-14388-07 0234 Regulation of the circulation in pathological states - Effects of antiarrhythmic drugs on the autonomic system (dogs)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
** R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
R01HL-16656-06 Left ventricular function in exercise (dogs)
P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
R01HL-17970-04 Vascular effects ot inhibitory behavioral adaptations (dogs)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
** P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
R01HL-19343-03 Behavioral influences on cardiac contractility (monkeys)
** R01HL-20328-01 Noninvasive assessment of autonomic cardiac control (dogs)
R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
R01HL-20655-02 Autonomic predictors of hypertension in children
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
** R01HL-21436-02 Autonomic control of renal function (cats)
** R01HL-21451-01 Control of circulation during heat stress and fever (baboon)
P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)
** R01HL-21654-01 Autonomic determinants of arrhythmia due to ischemia (cats)
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
R01HL-22154-01 Cardiac adaptation to physical training (dog)
R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
** R01HL-22226-01 Autonomic nervous elements in the developing heart (rabbits)
R01HL-22418-01 Neural control of cardio-respiratory function (cats)
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
** R01HL-22484-01 Neural control ot cardiac conduction end excitation (dogs)
R01HL-22715-01 Neural integration ot the cerdiovascular reflexes (dogs))

NERVOUS SYSTEM AUTONOMIC, AUTONOMIC GANGLIA

SEE ALSO NERVOUS SYSTEM AUTONOMIC, SYMPATHETIC GANGLIA
P01HL-14388-07 0212 Regulation of the circulation in pathological states - Role ot dopamine in autonomic activity
R01HL-17370-03 Synaptic chemistry and cardioregulation in Limulus
R01HL-20400-03 Diabetic neuropathy and peripheral vascular diseases (human, hamsters)

NERVOUS SYSTEM AUTONOMIC, AUTONOMIC REFLEXES

M R01HL-05883-18 Reflex control of resistance and capacitance vessels
** R01HL-05883-18 0002 Reflex control of resistance and capacitance vessels - Adenosine, adenine nucleotides and vascular smooth muscle (dog)
R01HL-05883-18 0005 Reflex control of resistance and capacitance vessels - Differential blockade of medullated and non-medullated vagal afferents in the cat
** R01HL-05883-18 0006 Reflex control of resistance and capacitance vessels - Cardiopulmonary vagal afferents in the conscious dog
M P01HL-08682-15 Regulation of the cardiovascular system
P01HL-08682-15 0005 Regulation ot the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
P01HL-08682-15 0015 Regulation ot the cardiovascular system - Projection of autonomic nerves onto the heart (dog)
P01HL-08682-15 0018 Regulation of the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)
P01HL-08682-15 0021 Regulation ot the cardiovascular system - Hypoglycemia in pathogenesis of shock (dog)
P01HL-08682-15 0024 Regulation of the cardiovascular system - Morphology of the spinal sympathetic system (cat)
** P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation ot renal function (dogs)
** P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
** R01HL-10951-11 Neural control of the heart (dogs, rats)
** P01HL-12738-10 0134 Physiologic pharmacology and its clinical applications - Adenylate cyclase and cAMP phosphodiesterase in cardiac development (dogs)
P50HL-14153-07 0013 Johns Hopkins Lung Center--Chronic diseases ot airways - Pulmonary mechanics and mediators of allergic reactions (guinea pigs, human)
P50HL-14159-08 0018 Specialized center of research in hypertension - Sympathetic nervous system in hypertension (rats)
P01HL-16910-05 0002 Regulation of the peripheral circulation - Coronary circulation (dogs)
P50HL-17655-04 0014 Study of ischemic heart disease - Blood flow and gas tension in myocardial ischemia and infarction (dog, monkey)
P50HL-17667-04 0031 Study ot ischemic heart disease - Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey)
P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)
P50HL-19185-02 0003 Pulmonary SCOR--Neonatal respiratory distress syndromes - Factors affecting formation and release of pulmonary surfactant in fetal lambs
** R01HL-22296-01 Autonomic mechanisms in man
** R01HL-22581-02 Neurocirculatory control in diabetes mellitus (human)

NERVOUS SYSTEM AUTONOMIC, HEART INNERVATION

SEE ALSO HEART, CONDUCTION SYSTEM
R01HL-02953-17 Autonomic and cardiovascular pharmacology (rats, rabbits, dogs, guinea pigs)
** R01HL-05883-18 0008 Reflex control of resistance and capacitance vessels - Oxygen consumption of the chronically denervated dog heart
P01HL-06285-18 0133 Cardiovascular-respiratory physiology and biochemistry - Decreased uterine blood flow and fetal development (lambs)
P01HL-06285-18 0153 Cardiovascular-respiratory physiology and biochemistry - Myocardial mechanics and pharmacology in isolated papillary muscle (animals)
** P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
M P01HL-06312-17 Surgical cardiology
P01HL-06312-17 0023 Surgical cardiology - Effect of denervation on atherosclerosis
** P01HL-06312-17 0025 Surgical cardiology - Effect of denervation on arrhythmias and function with coronary occlusion (dogs)
R01HL-07047-16 Comparative study of cardiac conduction system (human, birds, mammals)
M P01HL-08682-15 Regulation of the cardiovascular system
** P01HL-08682-15 0011 Regulation of the cardiovascular system - Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels)
** P01HL-08682-15 0015 Regulation ot the cerdiovascular system - Projection ot autonomic nerves onto the heart (dog)
** P01HL-08682-15 0016 Regulation of the cerdiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)
** P01HL-08682-15 0017 Regulation of the cardiovascular system - Neurally induced cardiac dysrhythmias (dog)
** P01HL-08682-15 0018 Regulation ol the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)
P01HL-08682-15 0022 Regulation of the cardiovascular system - Blood pressure responses and preganglionic sympathetic outflow (cat)
P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors-Reflex regulation ot renal function (dogs)
** P01HL-08682-15 0033 Regulation of the cardiovascular system - Functional and anatomical relations during cardiac re-innervation (dog)
** P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
M P01HL-13108-09 Clinical heart transplantation
P01HL-13108-09 0008 Clinical heart transplantation - Physiology and pharmacology ot the transplanted human heart
** P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
** P01HL-13108-09 0018 Clinical heart transplantation - Electrophysiologic studies of cardiac drugs in the denervated heart
** P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
** P01HL-13108-09 0020 Clinical heart transplantation - Autonomic neural studies in the denervated heart (human)
** P01HL-13108-09 0022 Clinical heart transplantation - Studies on cardiac receptors (human)
** P01HL-13108-09 0023 Clinical heart transplantation - Adaptive mechanisms of the denervated heart (human)
** P01HL-13108-09 0024 Clinical heart transplantation - Response of denervated heart to stress--Noninvasive (human)
M P01HL-13480-09 Cardiac electrophysiology
P01HL-13480-09 0026 Cardiac electrophysiology - Neural influences on cardiac electrophysiology and contraction (dog, cat)
R01HL-13666-06 Pharmacology ot genesis ot cardiac rhythmicity (rats, cats)
P01HL-13737-07 0027 Assisted circulation - Optimization of cardiac assistance (dogs)
R01HL-13920-07 Expanding the role of surgery ot atrial dysrhythmias (dogs)
** P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0215 Regulation of the circulation in pathological states - Left ventricle model in pathophysiologic states
** R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
** R01HL-16657-06 Innervation of coronary arteries and heart (rats)
P01HL-16910-05 0002 Regulation of the peripheral circulation - Coronary circulation (dogs)
P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)
** R01HL-17367-05 Functional sympathetic development in neonatal hearts (dogs, human)
R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
P50HL-17648-04 0026 Study ot ischemic heart disease - Control of muscle cell proliferation (organ culture)
** P50HL-17648-04 0028 Study of ischemic heart disease - Electrophysiology of sympathetic innervation in tissue culture
P50HL-17655-04 0001 Study of ischemic heart disease - Intravenous nitroglycerin--Ventricular function and infarct size (human, dog)
P50HL-17667-04 0031 Study of ischemic heart disease - Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey)
** R01HL-17799-02 The presence and significance of heart acetylcholine (cats)
** R01HL-18517-03 Intrinsic innervation of the heart (dogs)
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
** R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
R01HL-18796-04 Experimental cardiac arrhythmias (dogs)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

M R01HL-18798-04 Nervous and ionic factors in sudden cardiac death
** R01HL-18798-04 0003 Nervous and ionic factors in sudden cardiac death - Left stellectomy in the prevention of sudden death (dogs)
P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)
** R01HL-19009-03 Morphometric analysis of the sinoatrial node (ferret)
** R01HL-19257-03 Cardiovascular adjustment to behavioral stress (dog)
R01HL-19343-03 Behavioral influences on cardiac contractility (monkeys)
R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)
** R01HL-20446-02 Autonomic neuropathy in diabetic mice (also rats)
** R01HL-21195-02 Innervation of the heart--Acetylcholine receptors (frogs)
** R01HL-22226-01 Autonomic nervous elements in the developing heart (rabbits)
R23HL-22245-02 Functional characteristics of atrial receptors (rats)
** R01HL-22581-02 Neurocirculatory control in diabetes mellitus (human)
R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)

NERVOUS SYSTEM AUTONOMIC, PARASYMPATHETIC NERVOUS SYSTEM

SEE ALSO NERVOUS SYSTEM, CRANIAL NERVES, LARYNGEAL NERVES
SEE ALSO NERVOUS SYSTEM, CRANIAL NERVES, VAGUS
SEE ALSO NEUROTRANSMITTER RECEPTORS, CHOLINERGIC RECEPTORS
R01HL-01755-25 Fetal and neonatal cardiovascular function (sheep)
P01HL-06285-18 0189 Cardiovascular-respiratory physiology and biochemistry - Mucociliary clearance (cats, dogs)
M P01HL-08682-15 Regulation of the cardiovascular system
P01HL-08682-15 0011 Regulation of the cardiovascular system - Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels)
** P01HL-08682-15 0015 Regulation of the cardiovascular system - Projection of autonomic nerves onto the heart (dog)
P01HL-08682-15 0016 Regulation of the cardiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)
P01HL-08682-15 0018 Regulation of the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)
P50HL-14153-07 0017 Johns Hopkins Lung Center--Chronic diseases of airways - Collateral ventilation and pulmonary interdependence (pig, dog, human)
P01HL-14388-07 0211 Regulation of the circulation in pathological states - Choline acetyltransferase activity (rats)
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
R01HL-17799-02 The presence and significance of heart acetylcholine (cats)
R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
R01HL-18798-04 0003 Nervous and ionic factors in sudden cardiac death - Left stellectomy in the prevention of sudden death (dogs)
P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
R01HL-23604-01 Hepatic microvascular regulatory mechanisms (rat)

NERVOUS SYSTEM AUTONOMIC, SPLANCHNIC NERVES

P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0209 Regulation of the circulation in pathological states - Neural regulation of vascular resistance in human hypertension
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
R01HL-20864-01 Postnatal maturation of cardiovascular regulatory system (minipig)
R01HL-22732-01 Central organization of cardiac afferent nerves (cats, monkeys)

NERVOUS SYSTEM AUTONOMIC, SYMPATHETIC GANGLIA

SEE ALSO NERVOUS SYSTEM, PARAGANGLIA
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
** R01HL-13187-09 Central neural control of cardiovascular function (cats)
** P50HL-17648-04 0028 Study of ischemic heart disease - Electrophysiology of sympathetic innervation in tissue culture
R01HL-18798-04 0003 Nervous and ionic factors in sudden cardiac death - Left stellectomy in the prevention of sudden death (dogs)
** R01HL-19251-03 An index of sympathetic activity in hypertension (rats)
** R01HL-21351-02 Renal and vascular control by sympathetic ganglia (animals)
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)

NERVOUS SYSTEM AUTONOMIC, SYMPATHETIC NERVOUS SYSTEM

SEE ALSO NERVOUS SYSTEM AUTONOMIC, SPLANCHNIC NERVES
SEE ALSO NEUROTRANSMITTERS RECEPTORS, ADRENERGIC RECEPTORS
R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
R01HL-01755-25 Fetal and neonatal cardiovascular function (sheep)
** R01HL-05883-18 0003 Reflex control of resistance and capacitance vessels - Cardiac glycosides and sympathetic nerve terminals in vascular smooth muscle
R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
P01HL-06296-18 0007 Cardiovascular and pulmonary adaptation to stress - Cardiovascular control during isometric exercise (cats)
** P01HL-06835-17 0043 Cardiovascular disease - Left atrial receptor activity by the sympathetic nervous system (dogs)
P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
P01HL-06835-17 0051 Cardiovascular disease - Cardiopulmonary volume in hypertension (human)
R01HL-07723-15 Reflex control of vascular capacitance in shock
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
M P01HL-08682-15 Regulation of the cardiovascular system
P01HL-08682-15 0011 Regulation of the cardiovascular system - Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels)
P01HL-08682-15 0017 Regulation of the cardiovascular system - Neurally induced cardiac dysrhythmias (dog)
P01HL-08682-15 0018 Regulation of the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)
** P01HL-08682-15 0022 Regulation of the cardiovascular system - Blood pressure responses and preganglionic sympathetic outflow (cat)
P01HL-08682-15 0023 Regulation of the cardiovascular system - Cardiovascular control--Effects of spinal pathways lesions (dog)
** P01HL-08682-15 0024 Regulation of the cardiovascular system - Morphology of the spinal sympathetic system (cat)
** P01HL-08682-15 0025 Regulation of the cardiovascular system - Physiology of preganglionic cell bodies (cat)
P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation of renal function (dogs)
P01HL-08682-15 0033 Regulation of the cardiovascular system - Functional and anatomical relations during cardiac re-innervation (dog)
** P01HL-08682-15 0038 Regulation of the cardiovascular system - Control of pulmonary circulation (dogs)
P01HL-10539-12 0023 Pathophysiology of circulation - The relaxation response and therapy of disease states (human)
R01HL-10951-11 Neural control of the heart (dogs, rats)
P01HL-11414-11 0028 Thrombosis and atherosclerosis program - Catecholamine metabolism in the lung (rat)
** P01HL-11678-11 0031 Cardiovascular dynamics and their control - Hypertension caused by stimulation of renal sympathetic nerves (dogs)
P01HL-11678-11 0069 Cardiovascular dynamics and their control - Nervous control of the cirulation (dogs)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
** P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications - Myocardial cells in tissue culture (rats, chick embryo)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
R01HL-13134-07 Mechanism of chemoreceptor discharge (cats)
R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
R01HL-13623-08 Atrial receptors (dogs)
P50HL-14159-08 0008 Specialized center of research in hypertension - Renal function and sodium metabolism in hypertension (rats, human, rabbits)
** P50HL-14159-08 0018 Specialized center of research in hypertension - Sympathetic nervous system in hypertension (rats)
** P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
P01HL-14388-07 0160 Regulation of the circulation in pathological states - Mechanism of the antihypertensive effect of training (rats)
P01HL-14388-07 0178 Regulation of the circulation in pathological states - Structural and functional consequences of denervation (rats)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
P01HL-14388-07 0187 Regulation of the circulation in pathological states - Histamine and circulatory control
P01HL-14388-07 0198 Regulation of the circulation in pathological states - Humoral factors in vascular reactivity in spontaneously hypertensive rats
** P01HL-14388-07 0201 Regulation of the circulation in pathological states - Central sympathetic discharge in spontaneously hypertensive rats
** P01HL-14388-07 0202 Regulation of the circulation in pathological states - Development of hypertension in spontaneously hypertensive rats
** P01HL-14388-07 0203 Regulation of the circulation in pathological states - Activation of sympathetic nervous systems in spontaneously hyperactive rats
P01HL-14388-07 0209 Regulation of the circulation in pathological states - Neural regulation of vascular resistance in human hypertension
P01HL-14388-07 0212 Regulation of the circulatiun in pathological states - Role of dopamine in autonomic activity
P01HL-14388-07 0213 Regulation of the circulation in pathological states - Regulation of the heart and peripheral circulation in heart failure
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
P01HL-14388-07 0234 Regulation of the circulation in pathological states - Effects of antiarrhythmic drugs on the autonomic system (dogs)
** R01HL-14560-07 Hypertension produced by sympathetic dysfunction (human, rats)
R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
R01HL-15392-06 Autonomic and circulatory actions of anesthetics (dog, cat, rabbit, monkey)
R01HL-15444-06 Neonatal development of adrenergic receptor mechanisms (pigs)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-15758-06 Catecholamine release in the heart (dogs)
R01HL-15805-06 Cerebral arterial tone and reactivity (rabbits)
R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
** R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
R01HL-16657-06 Innervation of coronary arteries and heart (rats)
** R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
P01HL-16910-05 0005 Regulation of the peripheral circulation - Control of circulation by baroreceptor and chemoreceptor reflexes (dog, monkey)
P01HL-16910-05 0008 Regulation of the peripheral circulation - Circulation to bone (dogs, baboons)
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
P50HL-17646-04 0017 Study of ischemic heart disease - Oysrhythmia associated with acute myocardial infarction (human, cat)
P50HL-17648-04 0026 Study of ischemic heart disease - Control of muscle cell proliferation (organ culture)
R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
R01HL-17796-04 Importance of aminosugars in digitalis activity (cats, rabbits)
R01HL-17799-02 The presence and significance of heart acetylcholine (cats)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

(contd)

R01HL-17853-03 Peripheral circulation in heart failure (animals)
R01HL-17903-03 Regional circulatory responses to hypoxia (rats, cats, rabbits)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R01HL-18095-04 Human dopamine-beta-hydroxylase (also cattle)
P50HL-18318-03 0001 Pathogenesis and complications of hypertension - Core clinical program
** P50HL-18318-03 0011 Pathogenesis and complications of hypertension - Adrenergic function-Renin and mineralocorticoid activity (human)
** P50HL-18323-04 0041 SCOR hypertension center - Measurement of sympathetic response in hypertensive patients
** R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
R01HL-18796-04 Experimental cardiac arrhythmias (dogs)
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)
** R01HL-18976-03 Blood pressure control--Relation to behavioral stress (human, dog)
R01HL-19134-04 Angiotensin, prostaglandins, adrenergic interactions (rats, rabbits)
P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
P50HL-19190-02 0006 Pulmonary SCOR--Pathophysiology, management of IROS - Asphyxia--Respiratory control (dogs)
** R01HL-19257-03 Cardiovascular adjustment to behavioral stress (dog)
R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)
R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
** R01HL-20206-02 Carbohydrates-nucleotides and adrenergic interactions (rabbits, cats, rats)
R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
R01HL-20439-02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
** R01HL-20446-02 Autonomic neuropathy in diabetic mice (also rats)
** R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
R01HL-20564-02 Pathogenesis of peripheral arterial disease (rats, rabbits)
** P01HL-20581-01 0002 Vascular neuroeffector mechanisms in health and disease - Trophic interaction between adrenergic nerves and vascular smooth muscle
** P01HL-20581-01 0005 Vascular neuroeffector mechanisms in health and disease - Changes in the neuroeffector mechanism in hypertension (rabbits)
P01HL-20581-01 0006 Vascular neuroeffector mechanisms in health and disease - Neuroeffector mechanism in arteries and veins in hypertension (human)
** R01HL-20663-02 Regulation of skin blood flow in man
R01HL-20768-02 Mechanisms of circulatory regulation in heart failure (guinea pigs)
R01HL-20800-17 Neural basis of respiratory and vasomotor activity (cats)
R23HL-21042-01 Cardiopulmonary reflexes and their anatomical basis (dogs)
R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)
R01HL-21860-18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)
R01HL-21893-01 Blood volume distribution in hypertension (human)
R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)
R01HL-22170-01 Factors influencing transmission at adrenergic synpases
R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
** R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
R01HL-22361-01 Regulation of cardiac adaptation to exercise (rats)
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
** R01HL-22484-01 Neural control of cardiac conduction and excitation (dogs)
R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)
R01HL-22667-01 Mechanisms of baroreceptor adaptation in hypertension (dogs)
R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
R23HL-22747-01 Cardiodynamics and hypertension under cerebellar control (dogs)
R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)
R01HL-22809-01 Coronary prona behavior and cardiovascular reactivity (human)
R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)
R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis
R01HL-23604-01 Hapatic microvascular regulatory mechanisms (rat)
R01HL-23726-01 Treatment of ventricular arrhythmias with propranolol (human)

NERVOUS SYSTEM CENTRAL

SEE ALSO BRAIN
SEE ALSO NERVOUS DISORDERS CENTRAL (GENERAL)
** R01HL-03429-18 Central nervous system and coronary heart disease (human)
** P01HL-08805-15 0046 Regulation of ventilation and pulmonary circulation - Sites and modes of interaction of peripheral and central chemoreceptors
** P01HL-08899-14 0026 Tolerance to respiratory gases in health and disease - Effects of oxygen on central nervous system functions (rats, rabbits)
** P01HL-08899-14 0043 Tolerance to respiratory gases in health and disease - Oxygen effects upon CNS and sensory functions (human)
P01HL-08899-14 0044 Tolerance to respiratory gases in health and disease - Influence of high oxygen pressures on cognition and performance
P01HL-08899-14 0047 Tolerance to respiratory gases in health and disease - Oxygen effects on visual function (human)
P01HL-08899-14 0064 Tolerance to respiratory gases in health and disease - Narcotic effects of inert gases on functional systems (rats)
P01HL-08899-14 0078 Tolerance to respiratory gases in health and disease - Isobaric gas counterdiffusion--Sensory, cutaneous and systemic function (animals)
P01HL-12738-10 0042 Physiologic pharmacology and its clinical applications - Centrogenic cardiac arrhythmias (cats)
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
** R01HL-13187-09 Central neural control of cardiovascular function (cats)
P01HL-14388-07 0164 Regulation of the circulation in pathological states - Hyperkinetic heart syndrome (human)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
P01HL-14388-07 0187 Regulation of the circulation in pathological states - Histamine and circulatory control
** P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
P01HL-14388-07 0201 Regulation of the circulation in pathological states - Central sympathetic discharge in spontaneously hypertensive rats
P01HL-14388-07 0202 Regulation of the circulation in pathological states - Development of hypertension in spontaneously hypertensive rats
P01HL-14388-07 0203 Regulation of the circulation in pathological states - Activation of sympathetic nervous systems in spontaneously hyperactive rats
** R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
** P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)
R01HL-17401-03 Mechanisms in angiotensin induced hypertension (cats, dogs)
** P01HL-17871-04 0013 Kidney, sodium, cardiac output, arterioles and hypertension - Perfusion pressure and renal sodium excretion (rats)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
R01HL-18657-03 Pharmacologic studies on neurogenic digitalis effects (human, cats, dogs)
R01HL-18994-03 Substance P--Occurrence, pharmacology and physiology (mammals non-human, human)
R01HL-19320-03 Angiotensin neuropharmacology--Relationship to sodium
R01HL-20864-01 Postnatal maturation of cardiovascular regulatory system (minipig)
R01HL-21799-01 Circumventricular sites of pressor action of angiotensin II (rats)
** R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)
R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))
** R01HL-22862-01 CNS-mediated effects of antiarrhythmic drugs (dogs)
R01HL-23601-01 Early hypoxia and development of respiratory control

NERVOUS SYSTEM CENTRAL, CEREBROSPINAL FLUID

SEE ALSO CEREBROVASCULAR SYSTEM, BLOOD CEREBROSPINAL FLUID BARRIER
R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
P01HL-07896-15 0030 Environmental biomedical research program - Narcosis caused by inert gases at raised pressures (human, animals)
R01HL-12564-09 Control of respiration and blood gases (human, dog)
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
R01HL-15469-06 Human ventilatory adaptation (also, dogs, rats)
R01HL-18351-03 Brain metabolism, acid-base balance, and respiration
** P50HL-19190-02 0006 Pulmonary SCOR--Pathophysiology, management of IROS - Asphyxia--Respiratory control (dogs)
R01HL-19320-03 Angiotensin neuropharmacology--Relationship to sodium
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)

NERVOUS SYSTEM CENTRAL, CEREBROSPINAL FLUID FLOW

P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)

NERVOUS SYSTEM CENTRAL, CEREBROSPINAL FLUID PRESSURE

SEE ALSO NEUROPHYSIOLOGY, INTRACRANIAL PRESSURE
P01HL-11678-11 0057 Cardiovascular dynamics and their control - Return of urine to circulation using cystico-caval shunt (dogs)

NERVOUS SYSTEM CENTRAL, MENINGES, PIA MATER

R01HL-12775-08 Cerebral microcirculation (mice)

NERVOUS SYSTEM CENTRAL, MENINGES, SUBARACHNOID SPACE

R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)

NERVOUS SYSTEM CENTRAL, PYRAMIDAL TRACTS

P01HL-08682-15 0022 Regulation of the cardiovascular system - Blood pressure responses and preganglionic sympathetic outflow (cat)

NERVOUS SYSTEM CENTRAL, RETICULOSPINAL TRACT

P01HL-08682-15 0022 Regulation of the cardiovascular system - Blood pressure responses and preganglionic sympathetic outflow (cat)

NERVOUS SYSTEM CENTRAL, SPINAL CORD

M P01HL-08682-15 Regulation of the cardiovascular system
** P01HL-08682-15 0022 Regulation of the cardiovascular system - Blood pressure responses and preganglionic sympathetic outflow (cat)
** P01HL-08682-15 0023 Regulation of the cardiovascular system - Cardiovascular control--Effects of spinal pathways lesions (dog)
** P01HL-08682-15 0024 Regulation of the cardiovascular system - Morphology of the spinal sympathetic system (cat)
** P01HL-08682-15 0025 Regulation of the cardiovascular system - Physiology of preganglionic cell bodies (cat)
P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
R01HL-18994-03 Substance P--Occurrence, pharmacology and physiology (mammals non-human, human)

NERVOUS SYSTEM CENTRAL, SPINAL CORD MAPPING

P01HL-08682-15 0024 Regulation of the cardiovascular system - Morphology of the spinal sympathetic system (cat)

NERVOUS SYSTEM DISORDERS

SEE NERVOUS DISORDERS (GENERAL)

NERVOUS SYSTEM NEOPLASMS

SEE NEOPLASMS OF NERVOUS SYSTEM

NERVOUS SYSTEM REGENERATION

P01HL-08682-15 0011 Regulation of the cardiovascular system - Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels)
P01HL-08682-15 0016 Regulation of the cardiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-08682-15 0033 Regulation of the cardiovascular system - Functional and anatomical relations during cardiac reinnervation (dog)
P01HL-13108-09 0003 Clinical heart transplantation - Endomyocardial biopsy pathology
P01HL-18974-03 0012 Experimental neurogenic hypertension program - Immunohistochemistry of central monoamine neurons (rats)
R01HL-20446-02 Autonomic neuropathy in diabetic mice (also rats)

NEURAL CONDUCTION
SEE NEUROPHYSIOLOGY, NEURAL CONDUCTION

NEURAL CONTROL (MECHANISMS)
SEE INFORMATION PROCESSING AND CONTROL (NEURAL)

NEURAL ENCODING (MECHANISMS)
SEE INFORMATION PROCESSING AND CONTROL (NEURAL)

NEURAL PROCESSING AND CONTROL
SEE INFORMATION PROCESSING AND CONTROL (NEURAL)

NEURAL RECRUITMENT
SEE NEUROPHYSIOLOGY, NEURAL RECRUITMENT

NEURAL TRANSMISSION
SEE NEUROPHYSIOLOGY, NEURAL TRANSMISSION

NEURAL TRANSMITTERS, BIOGENIC AMINES
SEE NEUROTRANSMITTERS (GENERAL)

NEURAMINIDASE
SEE CARBOHYDRASES, NEURAMINIDASE

NEUROANATOMY
SEE ALSO BRAIN MAPPING
SEE ALSO NERVOUS SYSTEM CENTRAL, SPINAL CORD MAPPING
P01HL-08682-15 0015 Regulation of the cardiovascular system - Projection of autonomic nerves onto the heart (dog)
P01HL-08682-15 0024 Regulation of the cardiovascular system - Morphology of the spinal sympathetic system (cat)
P01HL-08682-15 0037 Regulation of the cardiovascular system - Central nervous regulation of cardiopulmonary mechanisms (cats)
** P01HL-08805-15 0039 Regulation of ventilation and pulmonary circulation - Carotid body (cats)
P01HL-11678-11 0069 Cardiovascular dynamics and their control - Nervous control of the cirulation (dogs)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
R01HL-16430-05 Neural control of respiration (cats)
R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)
R01HL-17800-04 Pulmonary reflexes--Central pathways (cats, dogs, rabbits)
** P01HL-18974-03 0016 Experimental neurogenic hypertension program - Neuroanatomy core
R01HL-18994-03 Substance P--Occurrence, pharmacology and physiology (mammals non-human, human)
R01HL-19048-03 Structure of baroreceptors in hypertension (rats)
R01HL-19053-03 Vascular anatomy of the telencephalon (human)
P50HL-19156-02 0005 Pulmonary SCOR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
R01HL-20548-02 Innervation of the lung (rats, monkeys)
R01HL-20574-03 Brain stem integration of chemoreceptor activity (cats)
R01HL-22418-01 Neural control of cardio-respiratory function (cats)
** R01HL-22732-01 Central organization of cardiac afferent nerves (cats, monkeys)
R23HL-22747-01 Cardiodynamics and hypertension under cerebellar control (dogs)

NEUROBLASTOMA
SEE NEOPLASMS OF NERVOUS SYSTEM, NEUROBLASTOMA

NEUROCHEMISTRY
SEE ALSO BRAIN METABOLISM
SEE ALSO NEUROTRANSMITTERS BIOSYNTHESIS
SEE ALSO NEUROTRANSMITTERS METABOLISM
P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
** P01HL-07896-15 0032 Environmental biomedical research program - Fluorometry study of brain exposed to hyperbaric oxygen (dogs, cats)
** P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
** P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
R01HL-12775-08 Cerebral microcirculation (mice)
** R01HL-17370-03 Synaptic chemistry and cardioregulation in Limulus
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
M P01HL-18974-03 Experimental neurogenic hypertension program
** P01HL-18974-03 0009 Experimental neurogenic hypertension program - Biochemistry of brain tyrosine hydroxylase (rats)
** P01HL-18974-03 0010 Experimental neurogenic hypertension program - Biochemistry and regulation of PNMT in brain (rats)
** P01HL-18974-03 0011 Experimental neurogenic hypertension program - Biochemistry and regulation of brain tryptophane hydroxylase (rats)
** P01HL-18974-03 0012 Experimental neurogenic hypertension program - Immunohistochemistry of central monoamine neurons (rats)
** P01HL-18974-03 0015 Experimental neurogenic hypertension program - Neurochemistry core
** R01HL-18994-03 Substance P--Occurrence, pharmacology and physiology (mammals non-human, human)
R01HL-20384-09 Social stimulation, RNA and cardiovascular disease (animals)
** R01HL-20847-02 Respiratory neurochemical control (human, goats)

NEUROEFFECTORS
SEE NERVOUS SYSTEM, NEUROEFFECTORS

NEUROENDOCRINE SYSTEMS
SEE ALSO ADRENAL MEDULLA
SEE ALSO NERVOUS SYSTEM, PARAGANGLIA
SEE ALSO NEUROHORMONES
SEE ALSO PITUITARY-DIENCEPHALON (HORMONES)
SEE ALSO PITUITARY GLAND, NEUROHYPOPHYSIS
** P01HL-06370-17 0015 Cardiopulmonary and renal pathology research center - Pathogenesis of chemically induced tissue injury (rats)
P01HL-11678-11 0034 Cardiovascular dynamics and their control - Renal function curves in intact dogs
P50HL-18323-04 0047 SCOR hypertension center - Transcendental meditation and self-hypnosis--Hypertension treatment (human)
** R01HL-20384-09 Social stimulation, RNA and cardiovascular disease (animals)
R01HL-22259-01 Modification of susceptibility to oxygen poisoning (rats)
** R01HL-22411-01 Neuroendocrine involvement in hypertension (rats)
R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis

NEUROFIBRILS
SEE NERVOUS SYSTEM, NEURONS, NEUROFIBRILS

NEUROGENESIS
SEE NERVOUS SYSTEM, NEUROGENESIS

NEUROGENIC HYPERTENSION
SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), NEUROGENIC HYPERTENSION

NEUROGLIA
SEE NERVOUS SYSTEM, NEUROGLIA

NEUROHORMONES
SEE ALSO ADRENAL MEDULLA HORMONES
SEE ALSO NERVE GROWTH FACTOR
SEE ALSO NEUROTRANSMITTERS (GENERAL)
SEE ALSO NEUROTRANSMITTERS BIOSYNTHESIS
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, NEUROHYPOPHYSEAL HORMONES
P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
** R01HL-09283-14 Pharmacology of molluscan hearts (also rabbits)
** R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
R01HL-18260-04 Cyclic nucleotide metabolism in lung tissue (cattle)
R01HL-18952-03 Metabolism in perfused fetal and newborn rabbit lungs
P01HL-19242-02 0004 Study of vascular smooth muscle - Cyclic nucleotide metabolism in smooth muscle cultures (human, rats)

NEUROHUMORS (GENERAL)
SEE NEUROTRANSMITTERS (GENERAL)

NEUROHUMORS BIOSYNTHESIS
SEE NEUROTRANSMITTERS BIOSYNTHESIS

NEUROHYPOPHYSEAL HORMONES
SEE PITUITARY-DIENCEPHALON HORMONES, NEUROHYPOPHYSEAL HORMONES

NEUROHYPOPHYSIS
SEE PITUITARY GLAND, NEUROHYPOPHYSIS

NEUROLOGIC CORRELATES OF BEHAVIOR
SEE NEUROPSYCHOLOGY (GENERAL)*

NEUROLOGIC EXAMINATIONS
SEE NERVOUS DISORDERS DIAGNOSIS (INCL EXAMS)*

NEUROLOGIC MANIFESTATIONS
SEE ALSO NEUROMOTOR DISORDERS
SEE ALSO PSYCHOLOGY ABNORMAL, MENTAL DISORDERS (GENERAL)
P01HL-08899-14 0030 Tolerance to respiratory gases in health and disease - Dynamic characteristics of respiratory control components (human, cats)
P01HL-08899-14 0064 Tolerance to respiratory gases in health and disease - Narcotic effects of inert gases on functional systems (rats)
P01HL-08899-14 0078 Tolerance to respiratory gases in health and disease - Isobaric gas counterdiffusion--Sensory, cutaneous and systemic function (animals)

NEUROLOGIC MANIFESTATIONS, HEADACHE
R01HL-21117-01 Altitude adaptation in chronic lung disease (human)

NEUROLOGIC MANIFESTATIONS, SLEEP DISORDERS
P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
R01HL-16325-03 Breathing patterns in man
R01HL-21117-01 Altitude adaptation in chronic lung disease (human)

NEUROLOGIC MANIFESTATIONS, SYNCOPE
R01HL-18794-04 Prospective studies of conduction disease (human)

NEUROLOGIC MANIFESTATIONS, UNCONSCIOUSNESS
R01HL-16784-03 Lung tissue and water volume (human, dogs)

NEUROLOGICAL DISEASES
SEE NERVOUS DISORDERS (GENERAL)

NEUROLOGICAL SCIENCES STUDY SECTION
** R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)

NEUROLOGY STUDY SECTION
** R01HL-17370-03 Synaptic chemistry and cardioregulation in Limulus
** R01HL-18590-03 Cerebral blood flow after cardiac arrest (dogs, monkeys)
** R01HL-20384-09 Social stimulation, RNA and cardiovascular disease (animals)
** R01HL-20800-17 Neural basis of respiratory and vasomotor activity (cats)
** R23HL-22747-01 Cardiodynamics and hypertension under cerebellar control (dogs)
** R01HL-23614-02 Pharmacology of relaxation in smooth muscle (mollusks)

NEUROLYMPHOMATOSIS OF FOWL
SEE NERVOUS DISORDERS CENTRAL, MAREK'S DISEASE

NEUROMOTOR DISORDERS
SEE ALSO BRAIN DISORDERS, CEREBELLAR DISORDERS
SEE ALSO METABOLIC DISORDERS INBORN, HEPATOLENTICULAR DEGENERATION
SEE ALSO METABOLIC DISORDERS INBORN, HYPOLIPOPROTEINEMIAS FAMILIAL, ABETALIPOPROTEINEMIA
SEE ALSO METABOLIC DISORDERS INBORN, MUSCULAR DYSTROPHY
SEE ALSO METABOLIC DISORDERS INBORN, MYOTONIA ATROPHICA
SEE ALSO MUSCULAR DISORDERS
SEE ALSO NERVOUS DISORDERS, MYELINOPATHIES, MULTIPLE SCLEROSIS
SEE ALSO NERVOUS DISORDERS CENTRAL (GENERAL)
SEE ALSO NERVOUS DISORDERS PERIPHERAL
SEE ALSO NEUROMUSCULAR STIMULATORS (FOR NEUROMOTOR DISORDERS)
R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)
** P01HL-14388-07 0218 Regulation of the circulation in pathological states - Regional myocardial dyskinesis--Cause assessment and reduction (dogs)
R01HL-22022-01 Respiratory muscle dysfunction in respiratory failure (human)

NEUROMOTOR DISORDERS, CONVULSIONS
SEE ALSO BRAIN DISORDERS, EPILEPSY
SEE ALSO NEUROMOTOR DISORDERS, MYOCLONUS
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, ANTICONVULSANTS
P01HL-07896-15 0049 Environmental biomedical research program - Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
** R01HL-12775-08 Cerebral microcirculation (mice)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

NEUROMOTOR DISORDERS, HYPERKINESIA
** P01HL-14388-07 0164 Regulation of the circulation in pathological states - Hyperkinetic heart syndrome (human)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)

NEUROMOTOR DISORDERS, MYOCLONUS
SEE ALSO NEUROMOTOR DISORDERS, CONVULSIONS
R01HL-21756-t t Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)

NEUROMOTOR DISORDERS, NEUROMUSCULAR (GENERAL)
SEE ALSO METABOLIC DISORDERS INBORN, MUSCULAR DYSTROPHY
SEE ALSO METABOLIC DISORDERS INBORN, MYOTONIA ATROPHICA
SEE ALSO METABOLIC DISORDERS INBORN, MYOTONIA CONGENITA
R0tHL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
P0tHL-17813-04 0006 Lung disease and the oxygenation of blood and tissue - Assessment of respiratory muscle contractile force (human, dogs)

NEUROMOTOR DISORDERS, PARALYSIS
P0tHL-2t584-02 0003 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on ventilation and respiratory mechanics in man
** P01HL-21584-02 0004 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on respiratory mechanics (dogs)

NEUROMOTOR DISORDERS, PARALYSIS, PARAPLEGIA
P0tHL-08805-t5 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)

NEUROMOTOR DISORDERS, PARKINSON'S DISEASE
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, ANTIPARKINSON DRUGS
R0tHL-19839-09 Factors in youth predisposing to chronic diseases (former college students)

NEUROMOTOR DISORDERS, TREMOR
R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)

NEUROMOTOR DISORDERS CHEMOTHERAPY
SEE ALSO MUSCLE RELAXANTS
SEE ALSO MUSCLE STIMULANTS
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, ANTICONVULSANTS
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, ANTIPARKINSON DRUGS
** P0tHL-07896-15 0030 Environmental biomedical research program - Narcosis caused by inert gases at raised pressures (human, animals)

NEUROMOTOR DISORDERS DIAGNOSIS (INCL EXAMS)*
** P0tHL-07896-15 0055 Environmental biomedical research program - Cerebral blood flow by Xenon-133 inhalation (human)

NEUROMOTOR EXAMINATIONS
SEE NEUROMOTOR DISORDERS DIAGNOSIS (INCL EXAMS)*

NEUROMOTOR SYSTEM, MOTOR NEURONS
** P01HL-08682-t5 0037 Regulation of the cardiovascular system - Central nervous regulation of cardiopulmonary mechanisms (cats)
P01HL-14414-07 0007 Environmental influences on cardiorespiratory and cellular functions - Neural control of respiration (human, cats)
** R0tHL-18007-05 Neural mechanisms controling motor act of breathing (cats, human)
R01HL-20548-02 Innervation of the lung (rats, monkeys)
R01HL-21257-02 Breathing in sleep--Airway control and blood gases (cats)

NEUROMOTOR SYSTEM, NEUROMUSCULAR ASPECTS (GENERAL)
P01HL-2058t-01 0002 Vascular neuroeffector mechanisms in health and disease - Trophic interaction between adrenergic nerves and vascular smooth muscle
P0tHL-20581-01 0003 Vascular neuroeffector mechanisms in health and disease - Cerebrovascular neuroeffector characteristics (animals)

NEUROMOTOR SYSTEM, NEUROMUSCULAR JUNCTION
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
R01HL-21195-02 Innervation of the heart--Acetylcholine receptors (frogs)
R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)

NEUROMOTOR SYSTEM, NEUROMUSCULAR TRANSMISSION
SEE ALSO HEART, CONDUCTION SYSTEM
SEE ALSO MUSCLE FUNCTION, MUSCLE CONTRACTION
R01HL-t2647-08 Inactivation of norepinephrine in vascular tissue
R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)
R01HL-177t5-04 Respiratory muscle afferents in respiratory control (cats)
R01HL-22201-01 Pharmacology and chemistry of nudibranch toxins (guinea pigs, rats, mice)
R01HL-23614-02 Pharmacology of relaxation in smooth muscle (mollusks)

NEUROMOTOR SYSTEM, SENSORIMOTOR SYSTEMS (GENERAL)
R01HL-20548-02 Innervation of the lung (rats, monkeys)
R01HL-22740-01 Behavior and cardiovascular disease--Basic mechanisms (human)

NEUROMUSCULAR ASPECTS
SEE NEUROMOTOR SYSTEM, NEUROMUSCULAR ASPECTS (GENERAL)

NEUROMUSCULAR BLOCKING AGENTS
SEE MUSCLE RELAXANTS, NEUROMUSCULAR BLOCKING AGENTS

NEUROMUSCULAR BLOCKING AGENTS DEPOLARIZING
SEE MUSCLE RELAXANTS, NEUROMUSCULAR BLOCKING AGENTS DEPOLARIZING

NEUROMUSCULAR DISORDERS
SEE NEUROMOTOR DISORDERS, NEUROMUSCULAR (GENERAL)

NEUROMUSCULAR JUNCTION
SEE NEUROMOTOR SYSTEM, NEUROMUSCULAR JUNCTION

NEUROMUSCULAR STIMULANTS
SEE MUSCLE STIMULANTS

NEUROMUSCULAR STIMULATORS (FOR NEUROMOTOR DISORDERS)
R0tHL-0465t-t9 Remote stimulation by radio-frequency transmission (dogs, human)

NEUROMUSCULAR SYSTEM
SEE NEUROMOTOR SYSTEM, NEUROMUSCULAR ASPECTS (GENERAL)

NEUROMUSCULAR TRANSMISSION
SEE NEUROMOTOR SYSTEM, NEUROMUSCULAR TRANSMISSION

NEURONAL LIPIDOSES, CEREBROTENDINOUS XANTHOMATOSIS TYPE
SEE LIPOGRANULOMATOSES, CEREBROTENDINOUS XANTHOMATOSIS

NEURONS
SEE NERVOUS SYSTEM, NEURONS

NEUROPATHOLOGY
SEE NERVOUS DISORDERS (GENERAL)

NEUROPHARMACOLOGICAL AGENTS
SEE ALSO NEUROTRANSMITTERS (GENERAL)
SEE ALSO NEUROTRANSMITTERS BIOSYNTHESIS
R0tHL-t2647-08 Inactivation of norepinephrine in vascular tissue
R0tHL-t3920-07 Expanding the role of surgery of atrial dysrhythmias (dogs)
R01HL-17993-04 0003 Ventricular dynamics from surgically insertad markers - Effects of pharmacologic agents on left ventricular dynamics (human)
R0tHL-18994-03 Substance P--Occurrance, pharmacology and physiology (mammals non-human, human)

NEUROPHARMACOLOGICAL AGENTS, ANALGESICS
SEE ALSO PSYCHOPHARMACOLOGICAL AGENTS, NARCOTICS
SEE ALSO PURINES-PYRIMIDINES METABOLISM ERRORS, GOUT DRUGS
R0tHL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
R0tHL-12971-15 Reactions of alkoloids and their analogs

NEUROPHARMACOLOGICAL AGENTS, ANALGESICS, ANTIPYRETICS
SEE ALSO DISEASES, PATHOLOGIC PROCESSES, INFLAMMATION, ANTIINFLAMMATORY AGENTS
** P01HL-08899-14 0026 Tolerance to respiratory gases in health and disease - Effects of oxygen on central nervous system functions (rats, rabbits)
R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)

NEUROPHARMACOLOGICAL AGENTS, ANESTHETICS
P01HL-06285-18 0147 Cerdiovascular-respiratory physiology and biochemistry - Metabolic regulation of cerebral microcirculation (cats)
** P01HL-07896-15 0030 Environmental biomedical research program Narcosis caused by inert gases at raised pressures (human, animals)
** P0tHL-07896-15 0056 Environmental biomedical research program - Neuromuscular blocking effects of nondepolarizing muscular relaxants (frogs)
R01HL-10018-t1 Effect of aging on beating heart cells in cultura (rats)
R01HL-t2528-t0 NMR relaxation of liquid crystal systems
R0tHL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
R01HL-13888-15 Regulation of respiration
P01HL-14414-07 0010 Environmental influences on cardiorespiratory and cellular functions - Pressure effects on cardiac electrical phenomena (animals)
P60HL-15t69-05 0018 Support for center for sickle cell disease - Studies on sickle cell disease (human, rats, dogs)
** R01HL-t5392-06 Autonomic and circulatory actions of anesthetics (dog, cat, rabbit, monkey)
** R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
** R01HL-17091-05 Anesthetics and microvascular response to hemorrhage (rats)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
R01HL-20328-01 Noninvasive assessment of autonomic cardiac control (dogs)
R0tHL-20572-02 000t Hemodynamic relations to metabolism in hypertension - Hemodynamic and myocardial functional studies in the SHR (rat)
** R01HL-20754-02 Anesthetic-induced myocardial depression (rabbits)
P0tHL-2t0t6-02 0013 Sickle cell anemia and other hemoglobinopathies - Microcirculatory response to sickle cell treated with anti-sickling agents (rats)
R23HL-211t6-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)

NEUROPHARMACOLOGICAL AGENTS, ANESTHETICS, LOCAL
R0tHL-t3306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
R01HL-187t1-03 Electrophysiology of heart cells (rats, chicks)
R01HL-2t329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
** R0tHL-2t742-0t Frequency-dependent drug actions in cardiac muscle (rabbits)
R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)

NEUROPHARMACOLOGICAL AGENTS, ANTICONVULSANTS
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)

NEUROPHARMACOLOGICAL AGENTS, ANTIPARKINSON DRUGS
R01HL-t297t-15 Reactions of alkoloids and their analogs

NEUROPHARMACOLOGICAL AGENTS, AUTONOMIC AGENTS
SEE ALSO CARDIOVASCULAR AGENTS
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, GANGLIONIC BLOCKING AGENTS
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, GANGLIONIC STIMULATING AGENTS
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, PARASYMPATHOLYTIC
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, PARASYMPATHOMIMETIC
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, SYMPATHOLYTIC
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, SYMPATHOMIMETIC
P0tHL-06285-18 0132 Cardiovascular-respiratory physiology and biochemistry - Umbilical-placental circulatory responses (lambs)
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
R01HL-13634-08 Renal hypertension in pregnancy (sheep)
R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
** R0tHL-15392-06 Autonomic and circulatory actions of anesthetics (dog, cat, rabbit, monkey)
R0tHL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)
R23HL-21368-02 Perinatal cardiac electrophysiology (dogs)

NEUROPHARMACOLOGICAL AGENTS, CENTRALLY ACTING DRUGS (GENERAL)
R01HL-07776-t5 Sudden death and cardiac arrhythmias (human, dogs, cats)
** P0tHL-12738-10 0042 Physiologic pharmacology and its clinical applications - Centrogenic cardiac arrhythmias (cats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-14159-08 0018 Specialized center of research in hypertension - Sympathetic nervous system in hypertension (rats)
R01HL-21799-01 Circumventricular sites of pressor action of angiotensin II (rats)

NEUROPHARMACOLOGICAL AGENTS, GANGLIONIC BLOCKING AGENTS

SEE ALSO MUSCLE RELAXANTS, NEUROMUSCULAR BLOCKING AGENTS
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, PARASYMPATHOLYTIC
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, SYMPATHOLYTIC
P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotheropeutic drugs and cardiovascular system (human, rats)
R01HL-13634-08 Renal hypertension in pregnancy (sheep)
R01HL-20563-02 Restoring microcirculation after platelet aggregation
R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)

NEUROPHARMACOLOGICAL AGENTS, GANGLIONIC STIMULATING AGENTS

SEE ALSO NEUROPHARMACOLOGICAL AGENTS, PARASYMPATHOMIMETIC
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, SYMPATHOMIMETIC
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)

NEUROPHARMACOLOGICAL AGENTS, PARASYMPATHOLYTIC

SEE ALSO HYPERSENSITIVITY, ANTIALLERGY DRUGS, HISTAMINE ANTAGONISTS
SEE ALSO MUSCLE RELAXANTS
P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
P50HL-19160-02 0001 Mucus abnormality in cystic fibrosis - Regulation of respiratory secretions (rat, human)
P50HL-19170-02 0007 Harvard pulmonary SCOR--Chronic diseases of the airways - Therapy effect on airway obstruction in acute asthma (human)
R01HL-19431-03 Regional mucociliary transport in the human lung
R01HL-22170-01 Factors influencing transmission at adrenergic synpases

NEUROPHARMACOLOGICAL AGENTS, PARASYMPATHOMIMETIC

SEE ALSO CHOLINE, ACETYLCHOLINE
SEE ALSO IMIDAZOLES, HISTAMINE
SEE ALSO MUSCLE STIMULANTS
SEE ALSO NEUROTRANSMITTER RECEPTORS, CHOLINERGIC RECEPTORS
P01HL-06285-18 0130 Cardiovascular-respiratory physiology and biochemistry - Ductus arteriosus--Morphological development (human, lambs)
* P01HL-06285-18 0189 Cardiovascular-respiratory physiology and biochemistry - Mucociliary clearance (cats, dogs)
P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
P50HL-14153-07 0013 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary mechanics and mediators of allergic reactions (guinea pigs, human)
R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
R01HL-15392-06 Autonomic and circulatory actions of anesthetics (dog, cat, rabbit, monkey)
R01HL-15758-06 Catecholamine release in the heart (dogs)
R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)
P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
P50HL-19160-02 0001 Mucus abnormality in cystic fibrosis - Regulation of respiratory secretions (rat, human)
P50HL-19185-02 0003 Pulmonary SCOR--Neonatal respiratory distress syndromes - Factors affecting formation and release of pulmonary surfactant in fetal lambs
R01HL-19225-02 0003 Types and mechanims of pulmonary hypertension - Cardiopulmonary function in pigs and rats
P01HL-19242-02 0004 Study of vascular smooth muscle - Cyclic nucleotide metabolism in smooth muscle cultures (human, rats)
R01HL-19431-03 Regional mucociliary transport in the human lung
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
R23HL-21368-02 Perinatal cardiac electrophysiology (dogs)
R01HL-22333-01 Cellular basis of small airways function (rats)
R01HL-22463-02 Pinocytotic vesicles and pulmonary edema (rats)
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
R23HL-22728-01 Neural control of renin secretion (dogs)
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)

NEUROPHARMACOLOGICAL AGENTS, SYMPATHOLYTIC

SEE ALSO BENZOPYRROLES, SEROTONIN INHIBITORS
SEE ALSO CARDIOVASCULAR AGENTS, ANTIHYPERTENSIVE AGENTS
SEE ALSO CARDIOVASCULAR AGENTS, VASODILATORS
SEE ALSO PHENYLALKYLAMINES, CATECHOLAMINES INHIBITORS
SEE ALSO RESPIRATORY DRUGS, BRONCHOCONSTRICTORS
R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
** P01HL-06296-18 0003 Cardiovascular and pulmonary adaptation to stress - Human exercise studies (human, dogs)
R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
P01HL-07896-15 0059 Environmental biomedical research program - Hyperoxygenation at elevated atmospheric pressure on myocardial blood flow (dogs)
P01HL-11678-11 0031 Cardiovascular dynamics and their control - Hypertension caused by stimulation of renal sympathetic nerves (dogs)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
** P01HL-12738-10 0133 Physiologic pharmacology and its clinical applications - Pharmacologic antagonism of beta-adrenergic blockade (dogs)
P50HL-14214-07 0021 Newborn lung center for hyaline membrane disease - Oevelopment of surfactant system--Surfactant production and release (rat, rabbit)
P01HL-14388-07 0209 Regulation of the circulation in pathological states - Neural regulation of vascular resistance in human hypertension
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
R01HL-15444-06 Neonatal development of adrenergic receptor mechanisms (pigs)
R01HL-15498-06 Effects of physical training on heart (rats)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-15805-06 Cerebral arterial tone and reactivity (rabbits)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
R01HL-16022-05 Oeterminants of the ventilatory response to hypoxia (goats, cats)
R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)
P50HL-17667-04 0031 Study of ischemic heart disease - Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey)
R01HL-18097-04 Pathogenesis of acute renal failure (rats)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
R01HL-20563-02 Restoring microcirculation after platelet aggregation
R01HL-20782-01 Coronary flow regulation by adenosine (rats, dogs)
R01HL-21444-02 Pulmonary mechanics during postnatal development (human)
R01HL-21860-18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R01HL-22506-01 Hemodynamics of the clinical hypertensions
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)
R01HL-23653-01 Protection of the ischemic myocardium (dogs)

NEUROPHARMACOLOGICAL AGENTS, SYMPATHOLYTIC, ADRENERGIC ALPHA

P01HL-06285-18 0126 Cardiovascular-respiratory physiology and biochemistry - Ventricular output, foramen ovale and ductus arteriosus flows (lambs)
P01HL-06835-17 0046 Cardiovascular disease - Renin activity during salt depletion in essential hypertension (human)
P01HL-12738-10 0134 Physiologic pharmacology and its clinical applications - Adenylate cyclase and cAMP phosphodiesterase in cardiac development (dogs)
R01HL-13375-09 Cellular potential changes causing cardiac arrhythmias (dogs)
P50HL-14217-08 0061 Specialized center of research in thrombosis - Pharmacology--Comparison of platelets and vascular smooth muscle (animal)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0199 Regulation of the circulation in pathological states - Adrenergic stimulation in spontaneously hypertensive rats
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
** R01HL-17897-03 Synthesis of alpha and beta adrenergic antagonists
R01HL-18537-04 Regional blood flow after acute myocardial injury (dogs)
R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)
P50HL-19153-02 0003 SCOR--Pulmonary edemas--Eitology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
P50HL-19160-02 0001 Mucus abnormality in cystic fibrosis - Regulation of respiratory secretions (rat, human)
R01HL-20572-02 0007 Hemodynamic relations to metabolism in hypertension - Drug effects on cardiac function and hypertropy (rats)
R23HL-21203-02 Effect of vasoactive agents on left-to-right shunts (lambs)
R01HL-22170-01 Factors influencing transmission at adrenergic synpases
R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)

NEUROPHARMACOLOGICAL AGENTS, SYMPATHOLYTIC, ADRENERGIC BETA

R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
P01HL-06285-18 0126 Cardiovascular-respiratory physiology and biochemistry - Ventricular output, foramen ovale and ductus arteriosus flows (lambs)
P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
P01HL-08682-15 0017 Regulation of the cardiovascular system - Neurally induced cardiac dysrhythmias (dog)
P01HL-08682-15 0026 Regulation of the cardiovascular system - Hypertension--High renin vs low renin (dog)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
** P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
P01HL-12738-10 0134 Physiologic pharmacology and its clinical applications - Adenylate cyclase and cAMP phosphodiesterase in cardiac development (dogs)
P50HL-14192-08 0005 Specialized center of research in hypertension - New techniques for recognition of renovascular hypertension (human, dogs)
P50HL-14217-08 0061 Specialized center of research in thrombosis - Pharmacology--Comparison of platelets and vascular smooth muscle (animal)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0199 Regulation of the circulation in pathological states - Adrenergic stimulation in spontaneously hypertensive rats
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-14717-06 Hamodynamics and heart structure - Ventricular overload (dogs)
R01HL-15002-07 Biochemical pharmacology of guanylate cyclasa in lung (cattla, rats)
R01HL-15764-05 C-AMP dependant protein kinase in cardiac contraction (dogs)
R01HL-15837-06 Ranin and cardiac hypertrophy in hypertension (rats)
R01HL-17403-03 Metabolic control of cardiac output (dogs)
R01HL-17629-03 Oevelopmantal aspects of cardiovascular function (human, cats, rabbits)
P50HL-17646-04 0014 Study of ischemic heart disease - Progression of ischemic injury in conscious dogs (also rabbits)
P50HL-17646-04 0015 Study of ischemic heart disease - Protecting ischemic myocardium in patients with evolving myocardial infarction
P50HL-17648-04 0014 Study of ischemic heart disease - Antidysrhythmic drugs and mammalian cardiac Purkinje fibers (sheep, dog)
** P50HL-17665-04 0002 Study of ischemic heart disease - Reducing acute anterior myocardial infarction--Beta adrenergic blockade (human)
P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
** R01HL-17897-03 Synthesis of alpha and beta adrenergic antagonists
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)
R01HL-18749-03 Ventricular mechanics in the overloaded heart (dogs)
R01HL-19112-03 Atherosclerosis studies (monkeys)
P50HL-19153-02 0003 SCOR--Pulmonary edemas--Eitology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
P50HL-19156-02 0001 Pulmonary SCOR--Chronic diseases of airways - Irritability of airways induced by epithelial damage in healthy subjects (human)
P50HL-19160-02 0001 Mucus abnormality in cystic fibrosis - Regulation of respiratory secretions (rat, human)
P50HL-19170-02 0003 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanisms of bronchial reactivity to acute and chronic airway challenge (dog)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-20253-02 Effects of exercise on the heart and its blood supply (dogs)
R01HL-20610-02 Nerve growth factor and obstructive cardiomyopathy (dogs)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-21221-02 Clinical antiarrhythmic and pharmacodynamic studies
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
** R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)
R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
R01HL-22506-01 Hemodynamics of the clinical hypertensions
** R01HL-22522-01 Cardioselectivity of beta-adrenoceptor antagonists
R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)
R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)

NEUROPHARMACOLOGICAL AGENTS, SYMPATHOMIMETIC

SEE ALSO ADRENAL MEDULLA HORMONES
SEE ALSO BENZOPYRROLES, SEROTONIN
SEE ALSO CARDIOVASCULAR AGENTS, VASOPRESSORS
SEE ALSO NEUROTRANSMITTERS RECEPTORS, ADRENERGIC RECEPTORS
SEE ALSO NUTRIENT INTAKE ACTIVITY, APPETITE DEPRESSANTS
SEE ALSO PHENYLALKYLAMINES, CATECHOLAMINES
SEE ALSO PHENYLALKYLAMINES, CATECHOLAMINES, EPINEPHRINE
SEE ALSO PHENYLALKYLAMINES, CATECHOLAMINES, NOREPINEPHRINE
SEE ALSO RESPIRATORY DRUGS, BRONCHOCONSTRICTORS
SEE ALSO RESPIRATORY DRUGS, BRONCHODILATORS
P01HL-06285-18 0125 Cardiovascular-respiratory physiology and biochemistry - Myocardial function in the fetal and neonatal lamb
P01HL-06285-18 0128 Cardiovascular-respiratory physiology and biochemistry - Pulmonary circulation in fetal lambs in utero
P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
P01HL-06285-18 0209 Cardiovascular-respiratory physiology and biochemistry - Metabolic studies of isolated lung cells (human, animals)
P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
R01HL-12690-09 Systemic and local vascular adjustment in shock (monkeys, cats)
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
P50HL-14214-07 0021 Newborn lung center for hyaline membrane disease - Development of surfactant system--Surfactant production and release (rat, rabbit)
P50HL-14217-08 0051 Specialized center of research in thrombosis - Microcirculation section (bat, hamster)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
P01HL-14388-07 0199 Regulation of the circulation in pathological states - Adrenergic stimulation in spontaneously hypertensive rats
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
R01HL-14526-07 Oral contraceptives and hypertension (rats)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
** R01HL-15392-06 Autonomic and circulatory actions of anesthetics (dog, cat, rabbit, monkey)
R01HL-15444-06 Neonatal development of adrenergic receptor mechanisms (pigs)
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
R01HL-17452-04 Depolarization induced cardiac automaticity (human, animals)
R01HL-17459-03 Myocardial ischemia (dogs)
R01HL-18019-04 The endocrine kidney in hypertension (mice)
R01HL-18020-04 Splanchnic hemodynamics in man
R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)
P50HL-18318-03 0011 Pathogenesis and complications of hypertension - Adrenergic function--Renin and mineralocorticoid activity (human)
R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)
R01HL-18517-03 Intrinsic innervation of the heart (dogs)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
P50HL-19170-02 0007 Harvard pulmonary SCOR--Chronic diseases of the airways - Therapy effect on airway obstruction in acute asthma (human)
P50HL-19185-02 0003 Pulmonary SCOR--Neonatal respiratory distress syndromes - Factors affecting formation and release of pulmonary surfactant in fetal lambs
P01HL-19242-02 0004 Study of vascular smooth muscle - Cyclic nucleotide metabolism in smooth muscle cultures (human, rats)
R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
R01HL-20572-02 0001 Hemodynamic relations to metabolism in hypertension - Hemodynamic and myocardial functional studies in the SHR (rat)
R01HL-20648-01 Physical factors and coronary flow (dogs)
** R01HL-20685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
R01HL-21351-02 Renal and vascular control by sympathetic ganglia (animals)
R23HL-21368-02 Perinatal cardiac electrophysiology (dogs)
R01HL-21429-02 Transport of LDL in arterial wall (human, mammals)
R01HL-21444-02 Pulmonary mechanics during postnatal development (human)
R01HL-21654-01 Autonomic determinants of arrhythmia due to ischemia (cats)
** R01HL-21860-18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)
R01HL-22170-01 Factors influencing transmission at adrenergic synpases
R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R01HL-22333-01 Cellular basis of small airways function (rats)
R01HL-22463-02 Pinocytotic vesicles and pulmonary edema (rats)
R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)
R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)
R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)

NEUROPHARMACOLOGICAL AGENTS, SYMPATHOMIMETIC, ADRENERGIC ALPHA

P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
R01HL-16292-05 0017 Surgery and non-obstructive coronary insufficiency - Cardiopulmonary resuscitation (human)
P01HL-16910-05 0002 Regulation of the peripheral circulation - Coronary circulation (dogs)
R01HL-18199-03 Effects of ions on vascular reactivity
R01HL-18657-03 Pharmacologic studies on neurogenic digitalis effects (human, cats, dogs)
P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)
P50HL-19153-02 0003 SCOR--Pulmonary edemas--Eitology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
P50HL-19160-02 0001 Mucus abnormality in cystic fibrosis - Regulation of respiratory secretions (rat, human)
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)

NEUROPHARMACOLOGICAL AGENTS, SYMPATHOMIMETIC, ADRENERGIC BETA

R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
R01HL-05875-18 Pathologic metabolic and physiologic studies of heart (human, dogs, cats)
P01HL-06285-18 0135 Cardiovascular-respiratory physiology and biochemistry - Beta-adrenergic agents and fetal cardiovascular dynamics (lambs)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
R01HL-09711-13 Instantaneous blood flow in ascending aorta (human, dogs)
P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
** P01HL-12738-10 0134 Physiologic pharmacology and its clinical applications - Adenylate cyclase and cAMP phosphodiesterase in cardiac development (dogs)
P01HL-13108-09 0022 Clinical heart transplantation - Studies on cardiac receptors (human)
P50HL-14153-07 0014 Johns Hopkins Lung Center--Chronic diseases of airways - Mediator release in asthma (human)
R01HL-14903-07 A new index of cardiac contractility (human, dogs, baboons)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
P01HL-16117-05 0007 Ion movements and membranes in cardiovascular control - Physiological and molecular properties of ionophores (dogs, rabbits)
P01HL-16910-05 0002 Regulation of the peripheral circulation - Coronary circulation (dogs)
R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
** R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
** R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
P50HL-19153-02 0003 SCOR--Pulmonary edemas--Eitology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P50HL-19160-02 0001 Mucus abnormality in cystic fibrosis - Regulation of respiratory secretions (rat, human)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
R01HL-19431-03 Regional mucociliary transport in the human lung
R01HL-20572-02 0001 Hemodynamic relations to metabolism in hypertension - Hemodynamic and myocardial functional studies in the SHR (rat)
R01HL-20572-02 0008 Hemodynamic relations to metabolism in hypertension - Role of nervous system in hemodynamic function
P01HL-20984-02 0001 Cellular mechanisms in cardiac hypertrophy - Contractile proteins in cardiac hypertrophy (rabbits, calves)
P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
R01HL-21182-02 Active tension and shortening in cardiac hypertrophy (rabbits)
R01HL-22064-02 Glycogen metabolism in anoxic diabetic myocardium (rats)
R01HL-22296-01 Autonomic mechanisms in man
R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)
R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

NEUROPHARMACOLOGY

SEE ALSO NERVOUS DISORDERS CHEMOTHERAPY
SEE ALSO PSYCHOPHARMACOLOGY
** R01HL-02953-17 Autonomic and cardiovascular pharmacology (rats, rabbits, dogs, guinea pigs)
** P01HL-07896-15 0056 Environmental biomedical research program - Neuromuscular blocking effects of nondepolarizing muscular relaxants (frogs)
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
P01HL-08682-15 0016 Regulation of the cardiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)
P01HL-08682-15 0018 Regulation of the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)
P01HL-08682-15 0022 Regulation of the cardiovascular system - Blood pressure responses and preganglionic sympathetic outflow (cat)
P01HL-10342-13 0011 The integrated function of respiration and circulation - Control of respiration 1-- Peripheral chemoreceptor studies (cats)
** P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
** P01HL-12738-10 0042 Physiologic pharmacology and its clinical applications - Centrogenic cardiac arrhythmias (cats)
P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotheropeutic drugs and cardiovascular system (human, rats)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
R01HL-16022-05 Determinants of the ventilatory response to hypoxia (goats, cats)
R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
P01HL-16878-05 0003 Control of ventilation in health and disease - Brain stem respiratory neurons in response mechanical/chemical loading (animal)
R01HL-17091-05 Anesthetics and microvascular response to hemorrhage (rats)
R01HL-17724-03 Oral contraceptives and hypertension (rats)
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
R01HL-18590-03 Cerebral blood flow after cardiac arrest (dogs, monkeys)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
** R01HL-18657-03 Pharmacologic studies on neurogenic digitalis effects (human, cats, dogs)
R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
R01HL-18862-02 Thirst and its contribution to edema (dogs)
** P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)
P01HL-18974-03 0009 Experimental neurogenic hypertension program - Biochemistry of brain tyrosine hydroxylase (rats)
** R01HL-19320-03 Angiotensin neuropharmacology-- Relationship to sodium
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
R01HL-21800-01 Angiotensin effects on water intake and excretion
** R01HL-22170-01 Factors influencing transmission at adrenergic synpases
R23HL-22245-02 Functional characteristics of atrial receptors (rats)
R01HL-23614-02 Pharmacology of relaxation in smooth muscle (mollusks)

NEUROPHYSIOLOGY (GENERAL)

SEE ALSO BRAIN ELECTRICAL ACTIVITY
SEE ALSO CEREBROVASCULAR SYSTEM, BLOOD-BRAIN BARRIER
SEE ALSO CEREBROVASCULAR SYSTEM, BLOOD-CEREBROSPINAL FLUID BARRIER
SEE ALSO ELECTROPHYSIOLOGY
SEE ALSO INFORMATION PROCESSING AND CONTROL (NEURAL)
SEE ALSO NERVOUS SYSTEM CENTRAL, CEREBROSPINAL FLUID FLOW
SEE ALSO NERVOUS SYSTEM CENTRAL, CEREBROSPINAL FLUID PRESSURE
SEE ALSO NEUROENDOCRINE SYSTEMS
** R01HL-05883-18 0005 Reflex control of resistance and capacitance vessels - Differential blockade of medullated and non-medullated vagal afferents in the cat
P01HL-07896-15 0052 Environmental biomedical research program - Effects of hypoxia on cerebral function
P01HL-08682-15 0037 Regulation of the cardiovascular system - Central nervous regulation of cardiopulmonary mechanisms (cats)
P01HL-08899-14 0018 Tolerance to respiratory gases in health and disease - Effects of respiratory gases at extreme pressures (human)
** P01HL-08899-14 0066 Tolerance to respiratory gases in health and disease - Neurophysiological effects of inert gases in man
** P01HL-11678-11 0069 Cardiovascular dynamics and their control - Nervous control of the circulation (dogs)
R01HL-12564-09 Control of respiration and blood gases (human, dog)
R01HL-12647-08 Inactivation of norepinephrine in vascular tissue
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
** R01HL-17689-06 Neurophysiologic studies of respiratory control (cats)
R01HL-17800-04 Pulmonary reflexes--Central pathways (cats, dogs, rabbits)
R01HL-18994-03 Substance P--Occurrence, pharmacology and physiology (mammals non-human, human)
R23HL-21042-01 Cardiopulmonary reflexes and their anatomical basis (dogs)
R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))
R23HL-22747-01 Cardiodynamics and hypertension under cerebellar control (dogs)

NEUROPHYSIOLOGY, INTRACRANIAL PRESSURE

SEE ALSO EYE DISORDERS, PAPILLEDEMA
SEE ALSO NERVOUS SYSTEM CENTRAL, CEREBROSPINAL FLUID PRESSURE
P01HL-11678-11 0057 Cardiovascular dynamics and their control - Return of urine to circulation using cystico-caval shunt (dogs)
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)
R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)

NEUROPHYSIOLOGY, NERVE IMPULSE FACILITATION

P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)

NEUROPHYSIOLOGY, NERVE IMPULSE INHIBITION

P01HL-08682-15 0025 Regulation of the cardiovascular system - Physiology of preganglionic cell bodies (cat)

NEUROPHYSIOLOGY, NERVE IMPULSE INITIATION

R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)

NEUROPHYSIOLOGY, NEURAL CONDUCTION

R01HL-12486-10 Structure-function correlation in the atrium (rabbits)
R01HL-16657-06 Innervation of coronary arteries and heart (rats)

NEUROPHYSIOLOGY, NEURAL RECRUITMENT

P01HL-08682-15 0016 Regulation of the cardiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)

NEUROPHYSIOLOGY, NEURAL TRANSMISSION

SEE ALSO ELECTROPOTENTIALS, ACTION POTENTIALS
SEE ALSO ELECTROPOTENTIALS, EVOKED POTENTIALS
SEE ALSO ELECTROPOTENTIALS, SPIKE POTENTIAL
SEE ALSO EYE DISORDERS DIAGNOSIS, RETINOGRAPHY, ELECTRORETINOGRAPHY*
SEE ALSO NEUROMOTOR SYSTEM, NEUROMUSCULAR TRANSMISSION
R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
** R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
P01HL-08682-15 0018 Regulation of the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)
R01HL-10951-11 Neural control of the heart (dogs, rats)
P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
P01HL-11351-12 0003 Cellular and molecular mechanisms of myocardial function - Mechanical and electrical properties of cardiac muscle (rabbits)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
R01HL-17370-03 Synaptic chemistry and cardioregulation in Limulus
R01HL-17403-03 Metabolic control of cardiac output (dogs)
R01HL-17689-06 Neurophysiologic studies of respiratory control (cats)
P50HL-19156-02 0005 Pulmonary SCOR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
P01HL-19737-02 0011 Cellular and molecular aspects of respiratory physiology - Chemical and metabolic factors on peripheral chemoreceptor activity (cats)
R01HL-20439-02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
R01HL-20564-02 Pathogenesis of peripheral arterial disease (rats, rabbits)
P01HL-20592-02 0004 Cell biology of cardiac and skeletal muscle - Excitation, conduction and contraction-- Modelling in Purkinje fibers
R01HL-20800-17 Neural basis of respiratory and vasomotor activity (cats)
R01HL-21071-02 Mechanisms of hypertension in coarctation of the aorta (dog)
R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
R01HL-21195-02 Innervation of the heart--Acetylcholine receptors (frogs)
R01HL-22269-01 Excitation-contraction coupling in enlarged hearts (rabbits)
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)

NEUROPHYSIOLOGY, NEURAL TRANSMISSION, ANTIDROMIC IMPULSES

P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
P01HL-08682-15 0025 Regulation of the cardiovascular system - Physiology of preganglionic cell bodies (cat)
R01HL-22732-01 Central organization of cardiac afferent nerves (cats, monkeys)

NEUROPHYSIOLOGY, REFLEX

SEE ALSO EAR, LABYRINTH, VESTIBULAR REFLEX
SEE ALSO MUSCLE FUNCTION, MUSCLE STRETCH REFLEX
SEE ALSO NERVOUS SYSTEM AUTONOMIC, AUTONOMIC REFLEXES
SEE ALSO RESPIRATORY SYSTEM REFLEXES
SEE ALSO WATER ENVIRONMENT, DIVING REFLEX
** R01HL-07723-15 Reflex control of vascular capacitance in shock
** R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
** P01HL-08682-15 0018 Regulation of the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
P01HL-11678-11 0040 Cardiovascular dynamics and their control - Control of plasma potassium concentration (dogs)
** P01HL-13108-09 0021 Clinical heart transplantation Autonomic reflex regulation of ventricular function (human)
P50HL-14214-07 0022 Newborn lung center for hyaline membrane disease - Functional integrity of surfactant system--Hyaline membrane disease (lamb, rat)
** P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
** P01HL-14388-07 0204 Regulation of the circulation in pathological states - Reflex control of vascular resistance in spontaneously hypertensive rats
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)
P60HL-17269-04 0023 National heart and blood vessel research and demonstration center - Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat)
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
R01HL-19467-03 Regulation of blood pressure (rats, dogs)
R01HL-20663-02 Regulation of skin blood flow in man
R01HL-20800-17 Neural basis of respiratory and vasomotor activity (cats)
R23HL-21042-01 Cardiopulmonary reflexes and their anatomical basis (dogs)
R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
** R01HL-22546-02 Baroreceptor reflex mechanisms in man
R01HL-22561-01 Hormonal control of mesenteric circulation (cats)
** R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)
** R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
** R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))

NEUROPHYSIOLOGY, REFLEX, SOMATIC REFLEXES

** P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)

NEUROPHYSIOLOGY, REFLEX, SPINAL REFLEXES

P01HL-08682-15 0022 Regulation of the cardiovascular system - Blood pressure responses and preganglionic sympathetic outflow (cat)

NEUROPIL

SEE NERVOUS SYSTEM, NEURONS, NEUROPIL

NEUROPSYCHOLOGICAL TESTS*

R01HL-20724-01 Behavioral consequences of hypertension (human)

NEUROPSYCHOLOGY (GENERAL)*

R01HL-20384-09 Social stimulation, RNA and cardiovascular disease (animals)

NEUROSURGERY

SEE ALSO BRAIN LESIONS SURGICAL
SEE ALSO CEREBROVASCULAR SURGERY
P01HL-11678-11 0031 Cardiovascular dynamics and their control - Hypertension caused by stimulation of renal sympathetic nerves (dogs)
R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
R01HL-13920-07 Expanding the role of surgery of atrial dysrhythmias (dogs)
R01HL-17974-03 External pneumatic compression in deep venous thrombosis (human)

NEUROSURGERY, DENERVATION (GENERAL)

** P01HL-06312-17 0023 Surgical cardiology - Effect of denervation on atherosclerosis
** P01HL-06312-17 0025 Surgical cardiology - Effect of denervation on arrhythmias and function with coronary occlusion (dogs)
** P01HL-06312-17 0028 Surgical cardiology - Coronary flow in the transplanted denervated heart (dogs)
P01HL-06835-17 0043 Cardiovascular disease - Left atrial receptor activity by the sympathetic nervous system (dogs)
P01HL-07896-15 0052 Environmental biomedical research program - Effects of hypoxia on cerebral function
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
P01HL-08682-15 0011 Regulation of the cardiovascular system - Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels)
P01HL-08682-15 0016 Regulation of the cardiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)
P01HL-08682-15 0033 Regulation of the cardiovascular system - Functional and anatomical relations during cardiac re-innervation (dog)
P01HL-08805-15 0039 Regulation of ventilation and pulmonary circulation Carotid body (cats)
P01HL-08805-15 0047 Regulation of ventilation and pulmonary circulation - Extracranial metabolic control of ventilation (dogs, goats)
P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
P01HL-13737-07 0007 Assisted circulation - Determination of cardiac status by use of balloon pump (dogs)
** P01HL-14388-07 0178 Regulation of the circulation in pathological states - Structural and functional consequences of denervation (rats)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
P01HL-15835-06 0010 Study of muscles related to heart disease - Muscle structure and reaction to injury (mice, rats)
P01HL-16910-05 0005 Regulation of the peripheral circulation - Control of circulation by baroreceptor and chemoreceptor reflexes (dog, monkey)
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
R01HL-18517-03 Intrinsic innervation of the heart (dogs)
R01HL-19343-03 Behavioral influences on cardiac contractility (monkeys)
R01HL-19827-02 Role of the upper airways in the control of breathing (human, cats, dogs)
R01HL-20598-03 The coronary vascular response to ischemia (dogs, pigs)
R01HL-20793-02 Phospholipids and cardiac receptor function
R01HL-21094-01 Arterial baroreceptors and renal function (dogs)
R01HL-21172-02 Regional oxygen consumption of heart and other organs (animals)
R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)

NEUROSURGERY, SPINAL CORD LESIONS SURGICAL

P01HL-06296-18 0007 Cardiovascular and pulmonary adaptation to stress - Cardiovascular control during isometric exercise (cats)
** P01HL-08682-15 0023 Regulation of the cardiovascular system - Cardiovascular control--Effects of spinal pathways lesions (dog)
R01HL-20572-02 0008 Hemodynamic relations to metabolism in hypertension - Role of nervous system in hemodynamic function

NEUROSURGERY, SYMPATHECTOMY

R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
R01HL-03181-21 0027 Hemodynamics as applied to surgical problems - Hemodynamic studies of the GI tract (dogs)
P01HL-06835-17 0043 Cardiovascular disease - Left atrial receptor activity by the sympathetic nervous system (dogs)
R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
** R01HL-18798-04 0003 Nervous and ionic factors in sudden cardiac death - Left stellectomy in the prevention of sudden death (dogs)
R01HL-20400-03 Diabetic neuropathy and peripheral vascular diseases (human, hamsters)
** R01HL-20604-03 Sympathectomy--Cardiovascular and molecular pharmacology (animals)
R01HL-21034-01 Compensatory responses to arterial occlusion (dogs)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)

NEUROSURGERY, SYMPATHECTOMY, IMMUNOSYMPATHECTOMY

SEE ALSO NERVE GROWTH FACTOR
P01HL-14388-07 0160 Regulation of the circulation in pathological states - Mechanism of the antihypertensive effect of training (rats)

NEUROSURGERY, VAGOTOMY

P01HL-14388-07 0155 Regulation of the circulation in pathological states - Cardiopulmonary afferent activity, carotid chemo-baroreceptor reflexes
R01HL-17314-04 Effects of anesthesia and loading on respiration (human, cats)

NEUROTOXINS

SEE ALSO LIVER DISORDERS, HEPATIC COMA-ENCEPHALOPATHY
SEE ALSO TOXICOLOGY, ANIMAL POISONS, TETRODOTOXIN
SEE ALSO TOXICOLOGY, PROTOZOAL TOXINS, SAXITOXIN
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
** R01HL-15958-06 X ray diffraction analysis of thrombin and neurotoxin
P01HL-16117-05 0006 Ion movements and membranes in cardiovascular control - Neuroreceptors and cellular excitation (fish)
R23HL-21914-01 Studies of vasomotor control (rats)

NEUROTRANSMITTERS (GENERAL)

SEE ALSO ADRENAL MEDULLA HORMONES
SEE ALSO AMINO ACIDS, GAMMA-AMINOBUTYRIC ACID
SEE ALSO BENZOPYRROLES, SEROTONIN
SEE ALSO CHOLINE, ACETYLCHOLINE
SEE ALSO IMIDAZOLES, HISTAMINE
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, AUTONOMIC AGENTS
SEE ALSO PHENYLALKYLAMINES, CATECHOLAMINES, DOPAMINE
SEE ALSO PHENYLALKYLAMINES, CATECHOLAMINES, EPINEPHRINE
SEE ALSO PHENYLALKYLAMINES, CATECHOLAMINES, NOREPINEPHRINE
R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
R01HL-05883-18 0002 Reflex control of resistance and capacitance vessels - Adenosine, adenine nucleotides and vascular smooth muscle (dog)
P01HL-06370-17 0015 Cardiopulmonary and renal pathology research center - Pathogenesis of chemically induced tissue injury (rats)
** R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
R01HL-07047-16 Comparative study of cardiac conduction system (human, birds, mammals)
R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
P01HL-08682-15 0016 Regulation of the cardiovascular system - Shifting cardiac pacemakers and AV nodal activation (dog)
P01HL-08682-15 0022 Regulation of the cardiovascular system - Blood pressure responses and preganglionic sympathetic outflow (cat)
P01HL-08682-15 0025 Regulation of the cardiovascular system - Physiology of preganglionic cell bodies (cat)
R01HL-10897-12 Effects of hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs)
R01HL-10951-11 Neural control of the heart (dogs, rats)
P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
R01HL-12607-10 Dynamics of pulsatile blood flow (human, dogs, rats)
R01HL-12647-08 Inactivation of norepinephrine in vascular tissue
P01HL-12738-10 0110 Physiologic pharmacology and its clinical applications - Physiology and pharmacology of arrhythmias (dogs)
R01HL-13134-07 Mechanism of chemoreceptor discharge (cats)
R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
** R01HL-14306-07 Quantification of arterial pressure control (dogs)
P01HL-14388-07 0172 Regulation of the circulation in pathological states - cAMP-dependent protein kinase from heart and vascular smooth muscle (guinea pigs)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0187 Regulation of the circulation in pathological states - Histamine and circulatory control
** P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
P01HL-14388-07 0212 Regulation of the circulation in pathological states - Role of dopamine in autonomic activity
R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)
R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
** R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-15677-06 Autonomic nervous system function in bronchial asthma (human, guinea pig, rabbit)
** R01HL-15758-06 Catecholamine release in the heart (dogs)
** P01HL-16117-05 0006 Ion movements and membranes in cardiovascular control - Neuroreceptors and cellular excitation (fish)
P01HL-16117-05 0008 Ion movements and membranes in cardiovascular control - Arterial smooth muscle calcium fluxes and contractility (rabbits)
** R01HL-16328-06 Membrane electrical properties of vascular muscle (human, animals)
R01HL-16725-03 Physiological regulation of pulmonary surfactant (dogs, rats)
M P01HL-16878-05 Control of ventilation in health and disease

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-16878-05 0003 Control of ventilation in health and disease - Brain stem respiratory neurons in response mechanical/chemical loading (animal)
** P01HL-16878-05 0004 Control of ventilation in health and disease - Neurotransmitters in the respiratory system (cats)
R01HL-17853-03 Peripheral circulation in heart failure (animals)
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
R01HL-18080-03 Extrinsic control of intestinal microcirculation (dogs)
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
** R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
M P01HL-18974-03 Experimental neurogenic hypertension program
P01HL-18974-03 0015 Experimental neurogenic hypertension program - Neurochemistry core
** R01HL-18994-03 Substance P--Occurrence, pharmacology and physiology (mammals non-human, human)
P50HL-19160-02 0001 Mucus abnormality in cystic fibrosis - Regulation of respiratory secretions (rat, human)
P50HL-19160-02 0002 Mucus abnormality in cystic fibrosis - Ultrastructure, cytochemistry of pulmonary secretion (human, rat)
P01HL-19242-02 0009 Study of vascular smooth muscle - Electrophysiology of vascular smooth muscle (rats, chick embryo)
R01HL-19275-03 Characterization of collateral blood vessels (dogs)
P01HL-19717-02 0037 Response of the lung to injury - Catecholamines, prostaglandins and nucleotides in pulmonary function (animals)
R01HL-20177-02 Effects of erythrocyte deformability on tissue perfusion (rats)
R01HL-20548-02 Innervation of the lung (rats, monkeys)
M P01HL-20581-01 Vascular neuroeffector mechanisms in health and disease
** P01HL-20581-01 0001 Vascular neuroeffector mechanisms in health and disease - Vascular neuroeffector mechanism (rabbits)
** P01HL-20581-01 0003 Vascular neuroeffector mechanisms in health and disease - Cerebrovascular neuroeffector characteristics (animals)
** P01HL-20581-01 0004 Vascular neuroeffector mechanisms in health and disease - Neuroeffector characteristics of mesenteric and pulmonary blood vessels (rabbits)
** P01HL-20581-01 0005 Vascular neuroeffector mechanisms in health and disease - Changes in the neuroeffector mechanism in hypertension (rabbits)
** P01HL-20581-01 0006 Vascular neuroeffector mechanisms in health and disease - Neuroeffector mechanism in arteries and veins in hypertension (human)
** P01HL-20581-01 9002 Vascular neuroeffector mechanisms in health and disease - Biochemistry core
** R01HL-20768-02 Mechanisms of circulatory regulation in heart failure (guinea pigs)
** P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
** R01HL-21099-02 Subcellular changes of blood vessels in hypertension (rats)
R01HL-21195-02 Innervation of the heart--Acetylcholine receptors (frogs)
P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)
R01HL-22077-01 Vasoactive amine disposition in cultured endothelium (rabbits)
R23HL-22728-01 Neural control of renin secretion (dogs)
R01HL-22740-01 Behavior and cardiovascular disease--Basic mechanisms (human)
** R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
R01HL-23201-01 Mechanisms of hypertension (human, rats)

NEUROTRANSMITTERS BIOSYNTHESIS

P50HL-18828-03 0008 Specialized center of research in thrombosis - Biochemistry, physiology--Platelets and subcellular platelet particles (human)
** P01HL-18974-03 0009 Experimental neurogenic hypertension program - Biochemistry of brain tyrosine hydroxylase (rats)
P01HL-18974-03 0011 Experimental neurogenic hypertension program - Biochemistry and regulation of brain tryptophane hydroxylase (rats)
** P01HL-18974-03 0012 Experimental neurogenic hypertension program - Immunohistochemistry of central monoamine neurons (rats)
R01HL-20446-02 Autonomic neuropathy in diabetic mice (also rats)

NEUROTRANSMITTERS METABOLISM

** P01HL-08682-15 0033 Regulation of the cardiovascular system - Functional and anatomical relations during cardiac re-innervation (dog)
R01HL-09283-14 Pharmacology of molluscan hearts (also rabbits)
** P01HL-11414-11 0028 Thrombosis and atherosclerosis program - Catecholamine metabolism in the lung (rat)
** P50HL-14159-08 0018 Specialized center of research in hypertension - Sympathetic nervous system in hypertension (rats)
P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
R01HL-15469-06 Human ventilatory adaptation (also, dogs, rats)
R01HL-17724-03 Oral contraceptives and hypertension (rats)
R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
** P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)
P01HL-18974-03 0010 Experimental neurogenic hypertension program - Biochemistry and regulation of PNMT in brain (rats)
R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)
R01HL-20439-02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
R01HL-20446-02 Autonomic neuropathy in diabetic mice (also rats)
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)

NEUROTRANSMITTERS RECEPTORS

R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
** P01HL-19242-02 0007 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (animals)
R01HL-21800-01 Angiotensin effects on water intake and excretion
** R23HL-22490-01 Neurotransmitter receptors of cultured heart cells

NEUROTRANSMITTERS RECEPTORS, ADRENERGIC RECEPTORS

R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
P01HL-06285-18 0195 Cardiovascular-respiratory physiology and biochemistry - Thyroid thermogenesis and sodium transport (rats)
P01HL-06308-18 0039 Mechanisms and therapy of circulatory disease - ANS in regulation of electrophysiology--Role of cyclic nulceotides (animals)
R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
** P01HL-07896-15 Environmental biomedical research program
** P01HL-07896-15 0052 Environmental biomedical research program - Effects of hypoxia on cerebral function
** R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
P01HL-08682-15 0033 Regulation of the cardiovascular system - Functional and anatomical relations during cardiac re-innervation (dog)
** P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
R01HL-12614-09 Microcirculatory control mechanisms and hypertension (bats, rats)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
** R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
** P01HL-14388-07 0163 Regulation of the circulation in pathological states - Adrenergic receptors in coronary vessels (dogs)
P01HL-14388-07 0178 Regulation of the circulation in pathological states - Structural and functional consequences of denervation (rats)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-14388-07 0187 Regulation of the circulation in pathological states - Histamine and circulatory control
P01HL-14388-07 0194 Regulation of the circulation in pathological states - Dopamine-beta-hydroxylase localization and release in hypertension
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
** R01HL-15444-06 Neonatal development of adrenergic receptor mechanisms (pigs)
R01HL-15562-05 Regulation of skeletal muscle blood flow (dogs)
R01HL-15607-06 Physiological control of splanchnic circulation (dogs)
R01HL-15805-06 Cerebral arterial tone and reactivity (rabbits)
** P01HL-16117-05 0006 Ion movements and membranes in cardiovascular control - Neuroreceptors and cellular excitation (fish)
P01HL-16117-05 0008 Ion movements and membranes in cardiovascular control - Arterial smooth muscle calcium fluxes and contractility (rabbits)
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
** R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
R01HL-17711-05 Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs)
R01HL-17853-03 Peripheral circulation in heart failure (animals)
R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
R01HL-18657-03 Pharmacologic studies on neurogenic digitalis effects (human, cats, dogs)
** R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
P50HL-18828-03 0008 Specialized center of research in thrombosis - Biochemistry, physiology--Platelets and subcellular platelet particles (human)
P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)
P01HL-18974-03 0009 Experimental neurogenic hypertension program - Biochemistry of brain tyrosine hydroxylase (rats)
** R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
** R01HL-19134-04 Angiotensin, prostaglandins, adrenergic interactions (rats, rabbits)
P01HL-19242-02 0007 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (animals)
R01HL-19275-03 Characterization of collateral blood vessels (dogs)
R01HL-20194-01 Brain catecholamines in control of blood pressure (rats)
R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
M P01HL-20581-01 Vascular neuroeffector mechanisms in health and disease
** P01HL-20581-01 0002 Vascular neuroeffector mechanisms in health and disease - Trophic interaction between adrenergic nerves and vascular smooth muscle
P01HL-20581-01 0003 Vascular neuroeffector mechanisms in health and disease - Cerebrovascular neuroeffector characteristics (animals)
P01HL-20581-01 0005 Vascular neuroeffector mechanisms in health and disease - Changes in the neuroeffector mechanism in hypertension (rabbits)
R01HL-20719-02 Cold induced pulmonary hypertension (cattle)
** R01HL-20793-02 Phospholipids and cardiac receptor function
** R23HL-21051-02 Adrenergic receptors and the adenylate cyclase system (frog RBC)
R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)
** R01HL-21860-18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)
R01HL-21995-01 Protein phosphorylation and adrenergic effects
** R01HL-22077-01 Vasoactive amine disposition in cultured endothelium (rabbits)
** R01HL-22170-01 Factors influencing transmission at adrenergic synpases
** R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)
R23HL-22728-01 Neural control of renin secretion (dogs)
R01HL-23201-01 Mechanisms of hypertension (human, rats)
** R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
** R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)

NEUROTRANSMITTERS RECEPTORS, ADRENERGIC RECEPTORS, ALPHA RECEPTORS

R01HL-02953-17 Autonomic and cardiovascular pharmacology (rats, rabbits, dogs, guinea pigs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications - Myocardial cells in tissue culture (rats, chick embryo)
P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
P01HL-14388-07 0199 Regulation of the circulation in pathological states - Adrenergic stimulation in spontaneously hypertensive rats
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
R01HL-14526-07 Oral contraceptives and hypertension (rats)
** R01HL-20339-02 Vascular alpha-adrenergic receptor molecular properties
P01HL-20581-01 0001 Vascular neuroeffector mechanisms in health and disease - Vascular neuroeffector mechanism (rabbits)
R01HL-20956-02 Early events following stimulation of human platelets
** R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
** R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)
** R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis

NEUROTRANSMITTERS RECEPTORS, ADRENERGIC RECEPTORS, BETA RECEPTORS

** R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology
** R01HL-10612-13 0020 Humoral factors in heart failure and hypertension - The control of renin release in the dog
R01HL-10942-09 Study of genetic hypertension in rats
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications - Myocardial cells in tissue culture (rats, chick embryo)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
R01HL-14944-07 Renal vascular reactivity in hypertensive patient
** R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
R01HL-17555-05 Distribution and metabolism of labeled digitaloids (dogs, guinea pigs)
P50HL-17646-04 0014 Study of ischemic heart disease - Progression of ischemic injury in conscious dogs (also rabbits)
** P01HL-17813-04 0008 Lung disease and the oxygenation of blood and tissue - Pulmonary regulation of systemic blood pressure (human, rabbits, rats)
R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)
P50HL-18828-03 0002 Specialized center of research in thrombosis - Endothelial cell biology (human, guinea pig)
R01HL-18976-03 Blood pressure control--Relation to behavioral stress (human, dog)
R01HL-19027-03 Calcium and cyclic AMP in causation of hypertension (rats)
** RD1HL-19423-03 Catecholamine action on the heart (cats, rats)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-20184-02 Desensitization of tracheal muscle to isoproterenol (rats, rabbits)
R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
** R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
** RD1HL-2D859-02 Beta adrenergic catecholamine receptor
R01HL-20956-D2 Early events following stimulation of human platelets
** R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
** R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)
** R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis
R01HL-23013-01 Smooth muscle development in vitro (chick embryo)

NEUROTRANSMITTERS RECEPTORS, ADRENERGIC RECEPTORS, DOPAMINERGIC RECEPTORS

P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology
R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0209 Regulation of the circulation in pathological states - Neural regulation of vascular resistance in human hypertension
P01HL-14388-07 0211 Regulation of the circulation in pathological states - Choline acetyltransferase activity (rats)
R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
R01HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin
** R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
P01HL-19242-02 0007 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (animals)
R01HL-20194-01 Brain catecholamines in control of blood pressure (rats)
R01HL-20548-02 Innervation of the lung (rats, monkeys)
R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
** R01HL-21195-02 Innervation of the heart--Acetylcholine receptors (frogs)
P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)

NEUROTRANSMITTER RECEPTORS, CHOLINERGIC RECEPTORS

P01HL-06308-18 0039 Mechanisms and therapy of circulatory disease - ANS in regulation of electrophysiology--Role of cyclic nulceotides (animals)
R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
** R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
** R01HL-21195-02 Innervation of the heart--Acetylcholine receptors (frogs)
R01HL-21800-01 Angiotensin effects on water intake and excretion
R01HL-22170-01 Factors influencing transmission at adrenergic synpases
** R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)
R01HL-23013-01 Smooth muscle development in vitro (chick embryo)

NEUTRAL LIPIDOSES, INBORN

SEE METABDLIC OISOROERS INBORN, LIPIO (NEUTRAL) STORAGE

NEUTRON RADIATION

SEE RAOIATION, NEUTRON RAOIATION

NEUTROPHIL LEUKOCYTES

SEE BLDDO CELLS, LEUKOCYTES, NEUTROPHILS

NEW WORLD MONKEYS

SEE MAMMALS, PRIMATES, MONKEYS ANO APES (ANTHRDPDIOS, NON-HUMAN), NEW WORLO MONKEYS (PLATYRHINES)*

NEWBORN

SEE CHILDREN, INFANT NEWBORN (BIRTH TO 4-6 WKS)

NEWCASTLE DISEASE VIRUS

SEE VIRUSES, PARAMYXOVIRUSES, NEWCASTLE DISEASE VIRUS

NIACIN

SEE PYRIDINE CARBOXYLIC ACIDS, NICOTINIC ACID

NIACINAMIDE

SEE PYRIDINAMIDES, NICOTINAMIDE

NICKEL (COMPOUNDS)

SEE METALS, HEAVY METALS, NICKEL

NICOTIANA

SEE CONSUMER PRODUCTS, TOBACCO AND TOBACCO PRODUCTS

NICOTINAMIDE

SEE PYRIDINAMIDES, NICOTINAMIDE

NICOTINAMIDE ADENINE DINUCLEOTIDE (REDUCED)

SEE PYRIDINE NUCLEOTIDES, NICOTINAMIDE RIBOTIDES, NAD(H2)

NICOTINE

SEE PYRIDINES, NICOTINE

NICOTINIC ACID

SEE PYRIDINE CARBOXYLIC ACIDS, NICOTINIC ACID

NICOTINIC RECEPTORS

SEE NEUROTRANSMITTER RECEPTORS, CHOLINERGIC RECEPTORS

NITRATES

P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)

NITRILES

SEE CYANIDES

NITRITES, AMYL NITRITE

P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)

NITROARYLS

SEE ALSO ACRIDINES
SEE ALSO ALKALOIDS
SEE ALSO AZETIDINE
SEE ALSO CYCLIC AMINO ACIDS
SEE ALSO IMIDAZOLES
SEE ALSO PHENOTHIAZINES
SEE ALSO PURINES
SEE ALSO PYRIDINES
SEE ALSO THIAZINES
** R01HL-11418-09 Poly-diaminophosphazenes

NITROARYLS, LACTAMS (GENERAL)

R01HL-12971-15 Reactions of alkoloids and their analogs

NITROFERRICYANIDE SODIUM

SEE IRON CYANIDES, SODIUM NITROFERRICYANIDE

NITROGEN

SEE ALSO RADIOISOTOPES, NITROGEN
** P01HL-08899-14 0003 Tolerance to respiratory gases in health and disease - Inert gas exchange in the eye (human, dogs)
P01HL-08899-14 0022 Tolerance to respiratory gases in health and disease - Effect of inert gas and hydrostatic pressures on physiological functions (monkey)
P01HL-08899-14 0064 Tolerance to respiratory gases in health and disease - Narcotic effects of inert gases on functional systems (rats)
P01HL-08899-14 0073 Tolerance to respiratory gases in health and disease - Biophysical mechanisms involved in isobaric gas counterdiffusion syndrome
P01HL-14414-07 0004 Environmental influences on cardiorespiratory and cellular functions - Role of diffusion in gas exchange (chicken egg)
R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)

NITROGEN BALANCE

P50HL-14218-07 0004 Pulmonary SCOR--Newborn lung center - Metabolism of infants with respiratory distress syndrome (human)
R01HL-21381-02 Amino acid metabolism in normal and hypoxic myocardium (rabbits)

NITROGEN DIOXIDE

R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
R01HL-16330-06 Aging-tissue injury and repair (rats)
R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)
R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)

NITROGEN MUSTARD

SEE HALOALKYLAMINES, MECHLORETHAMINE

NITROGEN MUSTARDS

SEE HALOALKYLAMINES, NITROGEN MUSTARDS

NITROGEN OXIDES

SEE ALSO NITROSO GROUP (COMPOUNDS)
SEE ALSO NITROUS OXIDE
RD1HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
R01HL-19488-03 Picosecond laser studies of heme-proteins

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)

NITROGEN RADIOISOTOPES (13)
SEE RADIOISOTOPES, NITROGEN

NITROGLYCERIN
SEE TRIOSE ALCOHOLS, NITROGLYCERIN

NITROPHENOLS, 2,4-DINITROPHENOL
P01HL-08805-15 0047 Regulation of ventilation and pulmonary circulation - Extracranial metabolic control of ventilation (dogs, goats)
R01HL-17403-03 Metabolic control of cardiac output (dogs)

NITROPRUSSIDE SODIUM
SEE IRON CYANIDES, SODIUM NITROFERRICYANIDE

NITROSO GROUP (COMPOUNDS)
P01HL-16118-06 0003 Study of emphysema - Degradation of collagen and elastin (human, hamsters, mice)

NITROUS OXIDE
P01HL-08899-14 0003 Tolerance to respiratory gases in health and disease - Inert gas exchange in the eye (human, dogs)
** P01HL-21016-02 0015 Sickle cell anemia and other hemoglobinopathies - EPR study of NO derivatives of Hb Beth Israel (human)

NMR
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, NMR*

NOISE POLLUTION
SEE PHYSICAL PROPERTIES, SOUND, NOISE POLLUTION

NOMENCLATURE
SEE INFORMATION AND COMMUNICATION, NOMENCLATURE

NONELECTROLYTES
SEE IONS, ELECTROLYTES, NONELECTROLYTES

NON-HISTONE NUCLEOPROTEINS
SEE NUCLEOPROTEINS, NON-HISTONE (GENERAL)

NON-INVASIVE DIAGNOSIS (DIAGNOSTIC TECHNIQUES)
SEE DIAGNOSTIC TESTS, NON-INVASIVE*

NON-NUTRITIONAL DISORDERS, NUTRITION THERAPY FOR
SEE NUTRITION, NUTRITION THERAPY (NON-NUTRITIONAL DISORDERS)

NONSPHEROCYTIC ANEMIA CONGENITAL
SEE BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC CONGENITAL, NONSPHEROCYTIC

NORADRENALINE
SEE PHENYLALKYLAMINES, CATECHOLAMINES, NOREPINEPHRINE

NORBORNANES, MECAMYLAMINE
R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)

NOREPINEPHRINE
SEE PHENYLALKYLAMINES, CATECHOLAMINES, NOREPINEPHRINE

NORETHINDRONE
SEE PROGESTERONE ANALOGS, NORETHINORONE

19-NORETHISTERONE
SEE PROGESTERONE ANALOGS, NORETHINORONE

NORETHYNODREL
SEE PROGESTERONE ANALOGS, NORETHYNODREL

NORMETANEPHRINE
SEE PHENYLALKYLAMINES, CATECHOLAMINES, NORMETANEPHRINE

NORMOBLASTS
SEE BLOOD CELLS, ERYTHROBLASTS AND ERYTHROID STEM CELLS

NORMOTENSIVE HYPERALDOSTERONISM SECONDARY TO JUXTAGLOMERULAR HYPERPLASIA
SEE METABOLIC DISORDERS INBORN, BARTTER'S SYNDROME

NORTOFRANIL
SEE AZEPINES, DESIPRAMINE

NOSE
SEE NASAL, NOSE

NOSEBLEED
SEE NASAL DISORDERS, EPISTAXIS

NOVOBIOCIN
SEE ANTIBIOTICS, NOVOBIOCIN

NUCLEAR ACIDIC PROTEINS
SEE NUCLEOPROTEINS, NON-HISTONE (GENERAL)

NUCLEAR MAGNETIC RESONANCE
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, NMR*

NUCLEAR MEDICINE (GENERAL)
SEE RADIOISOTOPE (NUCLEAR) MEDICINE (GENERAL)

NUCLEAR MEDICINE IN DIAGNOSIS
SEE RADIODIAGNOSIS AND RADIODIAGNOSTIC METHODS, RADIOISOTOPE DIAGNOSIS

NUCLEAR MEMBRANE
SEE CELL COMPONENTS, NUCLEAR MEMBRANE

NUCLEAR OVERHAUSER EFFECT
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, NMR*

NUCLEASES
P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man
P01HL-06314-17 0060 Immunologic mechanisms in cardiovascular disease - Strept antigens and infections in cardiovascular complications (human, animals)

NUCLEASES, CYCLIC NUCLEOTIDE PHOSPHODIESTERASE
P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
R23HL-21189-01 Regulation of pulmonary endothelial cell activities (human, cattle)
R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors

NUCLEASES, DEOXYRIBONUCLEASE
P50HL-14153-07 0004 Johns Hopkins Lung Center--Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)

NUCLEASES, ENDONUCLEASES (GENERAL)
P01HL-06314-17 0057 Immunologic mechanisms in cardiovascular disease - Antigens in cardiovascular disease (human)

NUCLEASES, RIBONUCLEASE
R01HL-14131-18 Abnormal hemoglobin syndromes (human)
P50HL-14153-07 0004 Johns Hopkins Lung Center--Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)

NUCLEIC ACID-AMINO ACID COMPLEXES (PEPTIDE SYNTHESIS)
SEE AMINO ACYL TRNA

NUCLEIC ACID STRUCTURE
SEE NUCLEIC ACIDS STRUCTURE

NUCLEIC ACIDS
SEE ALSO NUCLEOTIDES
R01HL-22223-01 The cardio-pulmonary junction (dogs, models)

NUCLEIC ACIDS, DNA
SEE ALSO NUCLEIC ACIDS SYNTHESIS, DNA
P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury - Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)
P01HL-06285-18 0179 Cardiovascular-respiratory physiology and biochemistry - Regulation of myocardial cell growth (rats, chick embryo)
P01HL-06835-17 0037 Cardiovascular disease - Cardiac hypertrophy in spontaneously hypertensive rat
P01HL-06835-17 0041 Cardiovascular disease - Cardiac performance in rats with renal hypertension
P01HL-06835-17 0042 Cardiovascular disease - Myocardial hypertrophy due to renal hypertension (rats)
P01HL-06835-17 0057 Cardiovascular disease - Studies on cardiac hypertrophy
P01HL-09011-15 0009 A research and resource program in blood - Control of RNA synthesis in nucleated cells (yeast, ascites cell)
P01HL-13737-07 0031 Assisted circulation - Myocardial ischemia--Biochemical changes (dogs)
R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)
P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
R01HL-19195-03 Hormonal regulation of lung function (rats)
R01HL-20826-02 Megakaryocyte proliferation and its control (mice)
R01HL-21831-05 Determining sequences from hemoglobin messenger RNA (mice, chickens, rabbits)
R01HL-22859-01 Effect of carbon monoxide on the developing heart (rats)

NUCLEIC ACIDS, DNA CIRCULAR
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)

NUCLEIC ACIDS, METHYLATED RNA
** P01HL-09011-15 0021 A research and resource program in blood - Regulation of transfer RNA methylating enzymes (rats, E coli)

NUCLEIC ACIDS, MT DNA
** R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
R01HL-22981-17 Membrane-associated functions in microorganisms (bacteria, protozoa)

NUCLEIC ACIDS, RNA
SEE ALSO NUCLEIC ACIDS SYNTHESIS, RNA
SEE ALSO NUCLEOPROTEINS, RIBONUCLEOPROTEINS
P01HL-06835-17 0037 Cardiovascular disease - Cardiac hypertrophy in spontaneously hypertensive rat
P01HL-06835-17 0057 Cardiovascular disease - Studies on cardiac hypertrophy
P01HL-16137-05 0008 Alveolar biology - Macromolecular events in pulmonary cells in toxic environments (animals)
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
R01HL-19195-03 Hormonal regulation of lung function (rats)
** R01HL-20384-09 Social stimulation, RNA and cardiovascular disease (animals)
R01HL-22859-01 Effect of carbon monoxide on the developing heart (rats)

NUCLEIC ACIDS, MRNA
SEE ALSO GENETICS, GENETIC CODING
SEE ALSO NUCLEIC ACIDS, RRNA
R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)
P01HL-06285-18 0194 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--RNA synthesis (rats, toads)
P01HL-09011-15 0002 A research and resource program in blood - Biosynthesis of fibrinogen (dogs)
P01HL-09011-15 0015 A research and resource program in blood - Regulation of synthesis and transport of diverse proteins in liver (rats)
** P01HL-09011-15 0019 A research and resource program in blood - The transport mechanism of mRNA (rat, yeast, ascites cells)
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
P01HL-14388-07 0190 Regulation of the circulation in pathological states - Mechanisms of the renal actions of aldosterone (rats)
R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)
P50HL-15062-07 0009 Study of lipoproteins, artery wall, and atherosclerosis - Plasma lipoprotein biosynthesis (Rhesus monkeys)
R01HL-15619-05 Regulation of prothrombin synthesis in cultured cells (rats)
P60HL-16005-05 0013 Comprehensive sickle cell center - Study of regulation of erythropoiesis in vitro (human, rat, hamster, rabbit)
R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
R01HL-16445-05 Regulation of plasma protein biosynthesis (rats, rabbits)
R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
R01HL-17710-04 Selective replication of hemoglobin genes (mice, ducks, human)
R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
** P01HL-20592-02 0011 Cell biology of cardiac and skeletal muscle - Myosin and cytochrome oxidase messenger RNAs (chicken)
R01HL-20922-02 Control of human fetal hemoglobin synthesis
P60HL-20985-01 0005 Northern California sickle cell center - Molecular mechanism of alpha thalassemia--Relation to sickle cell anemia (human)
** R01HL-21831-05 Determining sequences from hemoglobin messenger RNA (mice, chickens, rabbits)
** R23HL-22839-01 Cellular translation of liposomally-delivered mRNA (human, mammals)
R01HL-23588-01 NOV infection--Analysis at the subcellular level (chickens)
R01HL-23736-04 Sickle cell anemia and hemoglobin synthesis (monkeys)
R01HL-24048-01 Regulation of hemoglobin synthesis in chick embryos

NUCLEIC ACIDS, RRNA
R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)
R01HL-21831-05 Determining sequences from hemoglobin messenger RNA (mice, chickens, rabbits)

NUCLEIC ACIDS, TRNA
SEE ALSO AMINO ACYL TRNA
R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-20388-03 Regulation of protein turnover in diabetic heart (rat)
P01HL-22619-01 0007 Cellular mechanisms of heart failure - Regulation of contractile protein levels in heart muscle (rats)
R01HL-22651-01 Control of protein metabolism in heart muscle

NUCLEIC ACIDS, RNA VIRAL
SEE ALSO VIRUSES, RNA VIRUSES (GENERAL)
P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of arenavirus and Bunyamweraviruses

NUCLEIC ACIDS, UNNATURAL NUCLEIC ACIDS, HYBRID NUCLEIC ACIDS
** P60HL-20985-01 0005 Northern California sickle cell center - Molecular mechanism of alpha thalassemia--Relation to sickle cell anemia (human)

NUCLEIC ACIDS INHIBITORS
P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
P01HL-20984-02 0001 Cellular mechanisms in cardiac hypertrophy - Contractile proteins in cardiac hypertrophy (rabbits, calves)
R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)

NUCLEIC ACIDS METABOLISM
SEE ALSO NUCLEIC ACIDS REPAIR, DNA REPAIR (ENZYME)
SEE ALSO NUCLEIC ACIDS SYNTHESIS
SEE ALSO PURINES-PYRIMIDINES METABOLISM ERRORS
R01HL-06950-17 Red cell metabolism (human, vertebrates)
R01HL-12944-09 Enzymatic and biochemical studies on blood cells (human)
** R01HL-14344-07 Platelet function and adenine nucleotide metabolism (human)
R01HL-16637-04 Development and regression of cardiac hypertrophy (rats)
** R23HL-21320-02 Cyclic nucleotide metabolism in vascular endothelium
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)
** R01HL-23140-01 Determinants of irreversible ischemic injury in heart (dog, rat)

NUCLEIC ACIDS REPAIR, DNA REPAIR (ENZYME)
P01HL-03174-23 0010 Mechanisms of acute vascular reaction to injury - Search for mutagens in the human blood (bacteria, animals)

NUCLEIC ACIDS STRUCTURE
P01HL-09011-15 0019 A research and resource program in blood - The transport mechanism of mRNA (rat, yeast, ascites cells)
R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
R01HL-20300-02 Histone H5 and avian erythropoiesis (chickens, rabbits)
R01HL-21757-01 Elastin structure--DNA breathing--Hemoglobin S gelation

NUCLEIC ACIDS STRUCTURE, NUCLEOSIDES (TIDES) SEQUENCE
R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)
R01HL-20922-02 Control of human fetal hemoglobin synthesis
** R01HL-21831-05 Determining sequences from hemoglobin messenger RNA (mice, chickens, rabbits)

NUCLEIC ACIDS SYNTHESIS
SEE ALSO VIRUS DEVELOPMENT, REPLICATION
R01HL-01813-25 Regulation of metabolism by drugs and hormones (rats)
P01HL-06285-18 0133 Cardiovascular-respiratory physiology and biochemistry - Decreased uterine blood flow and fetal development (lambs)
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
P01HL-20552-02 0001 The development and regression of cardiac hypertrophy - Biochemical events in cardiac hypertrophy (rats)
P01HL-20592-02 0010 Cell biology of cardiac and skeletal muscle - Mitochondrial genesis during myocardial cell hypertrophy and hyperplasia (rats)
** P01HL-20984-02 0001 Cellular mechanisms in cardiac hypertrophy - Contractile proteins in cardiac hypertrophy (rabbits, calves)
R23HL-21396-02 Isolation, growth and metabolism of type 1 pneumocytes (rabbits)

NUCLEIC ACIDS SYNTHESIS, DNA
SEE ALSO NUCLEIC ACIDS REPAIR, DNA REPAIR (ENZYME)
SEE ALSO NUCLEOTIDYLTRANSFERASES, DNA NUCLEOTIDYLTRANSFERASES
P01HL-03174-23 0010 Mechanisms of acute vascular reaction to injury - Search for mutagens in the human blood (bacteria, animals)
R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)
P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)
P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease - Mitogenic and antigenic activation of lymphocyte sub-populations
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
P50HL-14212-07 0016 Correlated studies of pulmonary fibrosis - Role of pulmonary alveolar macrophages in fibrosis (human, rabbit)
** P60HL-17269-04 0020 National heart and blood vessel research and demonstration center - Nucleic acid and protein metabolism in growth and development of heart (rat)
** P50HL-17648-04 0026 Study of ischemic heart disease - Control of muscle cell proliferation (organ culture)
R01HL-17710-04 Selective replication of hemoglobin genes (mice, ducks, human)
P01HL-18645-03 0001 Biology of the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
P01HL-18645-03 0005 Biology of the artery wall and atherosclerosis - Effects of atherosclerosis risk factors on endothelium of the primate
P01HL-19717-02 0023 Response of the lung to injury - Postnatal lung development--Cells, connective tissue and physiology (animals)
P01HL-19717-02 0026 Response of the lung to injury - Protein depletion and postnatal lung development (rats)
P01HL-19717-02 0027 Response of the lung to injury - Hormone control of lung growth and development (rats)
P01HL-20993-02 0007 Population dynamics of arterial cells in atherogenesis - Interaction of lipoproteins in hypercholesteremia (human, swine)
R01HL-22119-01 Biochemistry of platelet function in thrombosis and cell growth (rabbits)
R01HL-22664-01 Regulation of myocardial cell growth (rats, guinea pigs)
** R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)

NUCLEIC ACIDS SYNTHESIS, RNA
SEE ALSO GENETICS, GENETIC REGULATION, GENETIC INDUCTION-REPRESSION-DEREPRESSION, TRANSCRIPTION
P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)
P01HL-06285-18 0193 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Aldosterone (rats, toads)
** P01HL-06285-18 0194 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--RNA synthesis (rats, toads)
** P01HL-09011-15 0009 A research and resource program in blood - Control of RNA synthesis in nucleated cells (yeast, ascites cell)
** P01HL-09011-15 0021 A research and resource program in blood - Regulation of transfer RNA methylating enzymes (rats, E coli)
** R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
** R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)
P01HL-14388-07 0190 Regulation of the circulation in pathological states - Mechanisms of the renal actions of aldosterone (rats)
P60HL-16005-05 0013 Comprehensive sickle cell center - Study of regulation of erythropoiesis in vitro (human, rat, hamster, rabbit)
R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
R01HL-17710-04 Selective replication of hemoglobin genes (mice, ducks, human)
P50HL-19171-02 0010 Pulmonary SCOR--Lung injury by childhood infections - Metabolic pathways of normal and injured respiratory cells
P01HL-19242-02 0004 Study of vascular smooth muscle - Cyclic nucleotide metabolism in smooth muscle cultures (human, rats)
** P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
P01HL-20984-02 0006 Cellular mechanisms in cardiac hypertrophy - Early biochemical aspects of cardiac hypertrophy (rats)
R23HL-21428-02 Expression of human globin in thalassemia (human)
R01HL-22266-01 Production of proteases by lung cells in culture (human, rodents, rabbits, sheep)
** R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
R01HL-23115-01 Regulation of active sodium transport (frogs, rats)
R01HL-23626-01 A study of the regulation of myocardial hypertrophy (rats)

NUCLEOBASES
SEE ALSO FLAVINS
SEE ALSO IMIDAZOLES
SEE ALSO PURINES
SEE ALSO PYRIDINES
R01HL-20286-02 Interventions to improve cardiac function in ischemia (dogs)

NUCLEOPHILIC SUBSTITUTION
SEE CHEMICAL REACTIONS, SUBSTITUTION, NUCLEOPHILIC

NUCLEOPROTEINS, HISTONES
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
P60HL-17269-04 0020 National heart and blood vessel research and demonstration center - Nucleic acid and protein metabolism in growth and development of heart (rat)
R01HL-17710-04 Selective replication of hemoglobin genes (mice, ducks, human)
P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
** R01HL-20300-02 Histone H5 and avian erythropoiesis (chickens, rabbits)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)

NUCLEOPROTEINS, NON-HISTONE (GENERAL)
R01HL-23626-01 A study of the regulation of myocardial hypertrophy (rats)

NUCLEOPROTEINS, PROTAMINES
** P01HL-15596-05 0019 Coagulation, fibrinolysis, hemostasis and hepatitis - Protamine assay and serine proteases
R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)

NUCLEOPROTEINS, RIBONUCLEOPROTEINS
** P01HL-09011-15 0019 A research and resource program in blood - The transport mechanism of mRNA (rat, yeast, ascites cells)

NUCLEOSIDE MONOPHOSPHATES CYCLIC
SEE NUCLEOTIDES, NUCLEOSIDE MONOPHOSPHATES CYCLIC

NUCLEOSIDE TRIPHOSPHATE DNA NUCLEOTIDYLTRANSFERASE
SEE NUCLEOTIDYLTRANSFERASES, DNA NUCLEOTIDYLTRANSFERASES

NUCLEOSIDE TRIPHOSPHATE RNA NUCLEOTIDYLTRANSFERASE
SEE NUCLEOTIDYLTRANSFERASES, RNA NUCLEOTIDYLTRANSFERASES

NUCLEOSIDES
SEE ALSO PURINE NUCLEOSIDES
R01HL-16490-04 Structural basis of nephron filtration (rats, rabbits)

NUCLEOSIDES (TIDES) SEQUENCE
SEE NUCLEIC ACIDS STRUCTURE, NUCLEOSIDES (TIDES) SEQUENCE

NUCLEOSIDYL AMINO ACIDS, S-ADENOSYLMETHIONINE
R01HL-20388-03 Regulation of protein turnover in diabetic heart (rat)

5'-NUCLEOTIDASE
SEE PHOSPHOMONOESTERASES, 5'-NUCLEOTIDASE

NUCLEOTIDASES
SEE ALSO PHOSPHATASES
R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
** R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
R01HL-14456-07 Lung metabolism--Enzymes in the pulmonary circulation (human, animals)

NUCLEOTIDES
SEE ALSO NUCLEIC ACIDS
SEE ALSO PURINE NUCLEOTIDES
SEE ALSO PYRIDINE NUCLEOTIDES
SEE ALSO SUGAR NUCLEOTIDES
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
** R01HL-15447-06 Vascular role of prostaglandin and cyclic nucleotides (rats)
P01HL-15835-06 0011 Study of muscles related to heart disease - Energetics and mechanism of muscle contraction (frogs, rabbits)
P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
R01HL-17944-03 Studies in lung preservation (dogs)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
P01HL-20984-02 0003 Cellular mechanisms in cardiac hypertrophy - Fast-kinetics of myosin ATPase from normal and hypertrophied heart (rabbits)
R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

NUCLEOTIDES, DEOXYRIBONUCLEOSIDE MONOPHOSPHATES CYCLIC

R01HL-20114-02 Collagen-platelet interaction and human aorta collagen (human)

NUCLEOTIDES, NUCLEOSIDE MONOPHOSPHATES CYCLIC

SEE ALSO NUCLEDTIDES, DEDXYRIBONUCLEOSIDE MONOPHDSPHATES CYCLIC
SEE ALSO PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, AMP CYCLIC
SEE ALSD PURINE NUCLEOTIOES, GUANINE NUCLEDTIDES, GMP CYCLIC

P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
** P01HL-06308-18 0039 Mechanisms and therapy of circulatory disease - ANS in regulation of electrophysiology--Role of cyclic nulceotides (animals)
M P01HL-06314-17 Immunologic mechanisms in cardiovascular disease
** P01HL-06314-17 0052 Immunologic mechanisms in cardiovascular disease - Role of cyclic nucleotides in neutrophil function (human)
** P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)
P01HL-11310-12 0087 Mechanisms of cardiovascular disease - Electrophysiology and electropharmacology of the heart (dogs)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)
** P50HL-14214-07 0015 Newborn lung center for hyaline membrane disease - Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal)
** R01HL-15447-06 Vascular role of prostaglandin and cyclic nucleotides (rats)
R01HL-15677-06 Autonomic nervous system function in bronchial asthma (human, guinea pig, rabbit)
R01HL-15813-05 Cardiac anoxia--Protective effect of carbohydrate (dogs)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
P60HL-15996-06 0001 Cincinnati comprehensive sickle cell center - Coagulation mechanisms in sickle cell disease (human)
R01HL-16445-05 Regulation of plasma protein biosynthesis (rats, rabbits)
R01HL-16611-04 Digitalis-receptor of the heart (guinea pigs, rats)
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
R01HL-16725-03 Physiological regulation of pulmonary surfactant (dogs, rats)
P01HL-16833-04 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)
** R01HL-18260-04 Cyclic nucleotide metabolism in lung tissue (cattle)
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
R01HL-18936-02 Heart preservation and transplantation studies (rat)
** R01HL-18937-03 Cyclic nucleotides and calcium in platelets (human)
** R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R01HL-19323-03 Studies of platelet microtubule protein
R01HL-19325-03 Phosphodiesterase inhibition and muscle contraction
R01HL-19685-03 Pathogenesis of inflammation of the lung (guinea pigs)
P01HL-19717-02 0007 Response of the lung to injury - Cellular level studies of prostaglandin-like molecules (cattle)
** P01HL-19717-02 0037 Response of the lung to injury - Catecholamines, prostaglandins and nucleotides in pulmonary function (animals)
R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
R01HL-19819-03 Mitogen induced interstitial pneumonitis (rabbits)
R01HL-20114-02 Collagen-platelet interaction and human aorta collagen (human)
P01HL-20552-02 0001 The development and regression of cardiac hypertrophy - Biochemical events in cardiac hypertrophy (rats)
** R01HL-20611-02 Airway smooth muscle and cyclic nucleotides
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
** R23HL-21189-01 Regulation of pulmonary endothelial cell activities (human, cattle)
R01HL-21294-02 Voltage clamp of isolated cardiac Purkinje cells (dogs)
** R23HL-21320-02 Cyclic nucleotide metabolism in vascular endothelium
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
R01HL-22836-01 The spontaneously hypertensive kidney (rats)
** R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

NUCLEOTIDES, POLYNUCLEOTIDES

SEE ALSO NUCLEOTIDES, RIBOPOLYNUCLEDTIDES

R23HL-19594-01 Tropocollagen and tropoelastin uptake in lung cells (human)
** R01HL-21757-01 Elastin structure--DNA breathing--Hemoglobin S gelation

NUCLEOTIDES, RIBOPOLYNUCLEOTIDES

SEE ALSD PURINE NUCLEDTIDES, ADENINE NUCLEOTIOES, PDLYADENYLIC ACID

P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)

NUCLEOTIDYL-CYCLASES, ADENYLATE CYCLASE

P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06285-18 0196 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Epithelial cell membranes (toads)
P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology
R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
R01HL-08893-14 Structure and function of membrane proteins (human)
P01HL-11414-11 0004 Thrombosis and atherosclerosis program - Platelet function and nonthrombogenic surfaces (human)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
P01HL-12738-10 0107 Physiologic pharmacology and its clinical applications - Blood superfused cardiac fibers (dogs)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
** P01HL-12738-10 0134 Physiologic pharmacology and its clinical applications - Adenylate cyclase and cAMP phosphodiesterase in cardiac development (dogs)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
** R01HL-13715-08 Myocardial adenyl cyclase (rats)
R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
P01HL-14388-07 0175 Regulation of the circulation in pathological states - Functional studies of selected proteins from cardiac muscle
R01HL-14706-07 Fetal hearts in organ culture (mice)
R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
R01HL-15696-06 Mechanism and role of cyclic GMP in heart (animals)
R01HL-15764-05 C-AMP dependent protein kinase in cardiac contraction (dogs)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
P01HL-16117-05 0006 Ion movements and membranes in cardiovascular control - Neuroreceptors and cellular excitation (fish)
R01HL-16666-05 Micropinocytosis in isolated capillary endothelium
P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
P01HL-17813-04 0008 Lung disease and the oxygenation of blood and tissue - Pulmonary regulation of systemic blood pressure (human, rabbits, rats)
R01HL-18260-04 Cyclic nucleotide metabolism in lung tissue (cattle)
** R01HL-18272-03 Heart adenyl cyclase complex (beef heart)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
P01HL-18827-02 0005 Platelet vessel wall interactions in thrombogenesis - Platelet vessel wall interactions in thrombogenesis (human)
R01HL-18937-03 Cyclic nucleotides and calcium in platelets (human)
R01HL-19027-03 Calcium and cyclic AMP in causation of hypertension (rats)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
R01HL-19068-03 Changes in membrane properties during erythropoiesis (chick embryo)
R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R01HL-19423-03 Catecholamine action on the heart (cats, rats)
R01HL-20114-02 Collagen-platelet interaction and human aorta collagen (human)
R01HL-20544-02 Integrated regulation of myocardial energy metabolism (rats, guinea pigs)
R01HL-20782-01 Coronary flow regulation by adenosine (rats, dogs)
R01HL-20783-02 Airway reactivity–B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-20956-02 Early events following stimulation of human platelets
** R23HL-21051-02 Adrenergic receptors and the adenylate cyclase system (frog RBC)
R23HL-21189-01 Regulation of pulmonary endothelial cell activities (human, cattle)
R23HL-21320-02 Cyclic nucleotide metabolism in vascular endothelium
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
R23HL-21413-02 Structure and function of platelet calcium-binding protein (human)
R01HL-21493-02 Contractility in cardiac failure (hamsters)
R01HL-21568-02 Cell biology of the alveolar-capillary unit (animals)
** R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
** R01HL-22136-02 Histamine and cardiac adenyl cyclase
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
R01HL-22828-01 Adenosine and catecholamine interaction in the heart (rats)
R01HL-22951-01 Studies on the affect of vitamin E on platelets (human, rats)
R01HL-23013-01 Smooth muscle development in vitro (chick embryo)
R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)
R01HL-23161-01 0003 Biology of myocardial ischemia - Phosphorylase coupling to myocardial sarcoplasmic reticulum (dog)
R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)

NUCLEOTIDYL-CYCLASES, GUANYLATE CYCLASE

** P01HL-06314-17 0053 Immunologic mechanisms in cardiovascular disease - Cellular functions controlled by cyclic GMP (human, mice, guinea pigs)
R01HL-13715-08 Myocardial adenyl cyclase (rats)
** R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
P01HL-16117-05 0006 Ion movements and membranes in cardiovascular control - Neuroreceptors and cellular excitation (fish)
R01HL-18260-04 Cyclic nucleotide metabolism in lung tissue (cattle)
R01HL-18937-03 Cyclic nucleotides and calcium in platelets (human)
R01HL-19423-03 Catecholamine action on the heart (cats, rats)
R01HL-20114-02 Collagen-platelet interaction and human aorta collagen (human)
R23HL-21320-02 Cyclic nucleotide metabolism in vascular endothelium
R01HL-22136-02 Histamine and cardiac adenyl cyclase
R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)

NUCLEOTIDYLTRANSFERASES, DNA NUCLEOTIDYLTRANSFERASES

P60HL-17269-04 0020 National heart and blood vessel research and demonstration center - Nucleic acid and protein metabolism in growth and development of heart (rat)

NUCLEOTIDYLTRANSFERASES, RNA NUCLEOTIDYLTRANSFERASES

P01HL-06285-18 0179 Cardiovascular-respiratory physiology and biochemistry - Regulation of myocardial cell growth (rats, chick embryo)
P01HL-06285-18 0193 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Aldosterone (rats, toads)
R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of arenavirus and Bunyamweraviruses
P01HL-13737-07 0031 Assisted circulation - Myocardial ischemia--Biochemical changes (dogs)
** P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
P01HL-20984-02 0006 Cellular mechanisms in cardiac hypertrophy - Early biochemical aspects of cardiac hypertrophy (rats)
R01HL-22367-01 Estrogen receptors in very low density lipoproteins (chicken livers)
** R01HL-23626-01 A study of the regulation of myocardial hypertrophy (rats)

NUCLEUS-CYTOPLASM VOLUME RELATIONSHIPS

SEE CELL VOLUME

NURSE PRACTITIONERS

SEE HEALTH SCIENCES PROFESSIONS, NURSE PRACTITIONERS

NURSERY

SEE HOSPITALS, NURSERY

NURSES

SEE HEALTH SCIENCES PROFESSIONS, NURSES

NURSING

SEE HEALTH SCIENCES PROFESSIONS, NURSES

NURSING EDUCATION

SEE EDUCATION, HEALTH OCCUPATIONS, NURSING

NURSING SCHOOLS

SEE EDUCATION, HEALTH OCCUPATIONS, NURSING

NUTRIENT INTAKE ACTIVITY (GENERAL)

R01HL-19084-03 Structure and function of serum lipoproteins (human)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)

NUTRIENT INTAKE ACTIVITY, APPETITE DEPRESSANTS

SEE ALSO NUTRIENT INTAKE DISORDERS, APPETITE DISORDERS, ANOREXIA
R01HL-22532-01 Inhibitors of cholesterol biosynthesis (rats, mice, yeast)

NUTRIENT INTAKE ACTIVITY, DRINKING BEHAVIOR (WATER)

SEE ALSO ALCOHOLISM - DRINKING, ALCOHOL CONSUMPTION
SEE ALSO BRAIN, DRINKING REGULATORY CENTERS
P01HL-14388-07 0156 Regulation of the circulation in pathological states - Blood pressure with drinking to intracranial angiotensin II injections (rats)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R01HL-19320-03 Angiotensin neuropharmacology--Relationship to sodium

NUTRIENT INTAKE ACTIVITY, FEEDING (EATING) BEHAVIOR

R01HL-11901-12 0020 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass--Endogenous animal model of obesity (rats)
R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
R01HL-20910-02 The alternative diet for coronary disease prevention (human)

NUTRIENT INTAKE ACTIVITY, SALT INTAKE

SEE ALSO NUTRITION, DIET THERAPEUTIC, SALT RESTRICTED
R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
R01HL-10612-13 0021 Humoral factors in heart failure and hypertension - The control of aldosterone secretion (dogs)
P01HL-11678-11 0040 Cardiovascular dynamics and their control - Control of plasma potassium concentration (dogs)
P01HL-11678-11 0064 Cardiovascular dynamics and their control - Renal medulla--Control of renal hemodynamics, electrolyte excretion (dogs)
P01HL-11678-11 0065 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (dogs)
R01HL-13929-06 Single nephron response to chronic obstruction (frogs, rats)
P50HL-14230-07 0088 A/S SCOR-Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
R01HL-14306-07 Quantification of arterial pressure control (dogs)
P01HL-14388-07 0195 Regulation of the circulation in pathological states - General review of potential pathophysiologic factors in spontaneous hypertension
R01HL-14913-06 Hypertension--Genetic influence of kidney (rats)
R01HL-15839-05 Physiological role of isorenin and kallikrein (animals)
R01HL-16489-04 Renal prostaglandins--Synthesis and function (human, dogs, rats)
R01HL-16496-04 Prostaglandins and renin experimental hypertension (rabbits)
R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
R01HL-17458-04 Renal control of sodium excretion (rats)
M P01HL-17871-04 Kidney, sodium, cardiac output, arterioles and hypertension
P01HL-17871-04 0013 Kidney, sodium, cardiac output, arterioles and hypertension - Perfusion pressure and renal sodium excretion (rats)
R01HL-17902-04 Mammalian renal microcirculation (hamsters)
P50HL-18323-04 0042 SCOR hypertension center - Blood viscosity and blood volume in hypertensive disease (human, dog)
P50HL-18323-04 0045 SCOR hypertension center - Laboratory programs--Prorenin (human)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
R01HL-18862-02 Thirst and its contribution to edema (dogs)
R01HL-19229-02 Prostaglandins and hypertension (human, rats, dogs, rabbits)
P01HL-19242-02 0007 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (animals)
P01HL-19242-02 0008 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (rats)
R01HL-19251-03 An index of sympathetic activity in hypertension (rats)
R01HL-19279-03 Intracellular action of aldosterone in hypertension (human, rats)
** P50HL-19362-02 0012 A/S SCOR--Atherosclerosis in nonhuman primates - Induction of chronic hypertension by salt loading (baboon)
R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
R01HL-19825-02 Renin-volume interactions in coarctation hypertension (dogs)
R01HL-19922-03 Childhood determinants of blood pressure
R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
R01HL-20124-02 Coronary risk factors (human)
R01HL-21099-02 Subcellular changes of blood vessels in hypertension (rats)
R01HL-21435-02 Control, cardiovascular and renal effects of potassium (dogs)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

NUTRIENT INTAKE ACTIVITY, THIRST

** P01HL-11678-11 0027 Cardiovascular dynamics and their control - Vasopressin and thirst in control of body fluid volumes and osmolality (dogs)
P01HL-11678-11 0058 Cardiovascular dynamics and their control - Overall control of the circulation--Computer analysis
** R01HL-18862-02 Thirst and its contribution to edema (dogs)
** R01HL-21799-01 Circumventricular sites of pressor action of angiotensin II (rats)
** R01HL-21800-01 Angiotensin effects on water intake and excretion

NUTRIENT INTAKE DISORDERS, APPETITE DISORDERS, ANOREXIA

SEE ALSO NUTRIENT INTAKE ACTIVITY, APPETITE DEPRESSANTS
R01HL-21117-01 Altitude adaptation in chronic lung disease (human)

NUTRITION (GENERAL)

SEE ALSO GROWTH MEDIA
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
P01HL-19242-02 0001 Study of vascular smooth muscle - Energy metabolism and protein turnover in vascular smooth muscle (rats)
R01HL-19859-03 Epidemiological studies, precursors of hypertension (human)
R01HL-19864-03 0003 Blood pressure of children and young adults - Heart rate and blood pressure--Consistency in infancy (human)
R01HL-22022-01 Respiratory muscle dysfunction in respiratory failure (human)
N01HV-82919-00 Development of percutaneous energy transmission systems

NUTRITION, DEVELOPMENTAL NUTRITION

SEE ALSO NUTRITION, MATERNAL-FETAL NUTRITION
P50HL-15103-07 0001 A/S SCOR-Early natural history of arteriosclerosis - Clinical research-Bogalusa heart study (children)
** P50HL-19362-02 0001 A/S SCOR-Atherosclerosis in nonhuman primates - Effects of infant nutrition on atherosclerosis (baboons)
** P50HL-19362-02 0002 A/S SCOR--Atherosclerosis in nonhuman primates - Infant caloric intake, adipose tissue development and atherosclerosis (baboon)

NUTRITION, DIET

R01HL-01803-23 0011 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
P01HL-06285-18 0179 Cardiovascular-respiratory physiology and biochemistry - Regulation of myocardial cell growth (rats, chick embryo)
R01HL-09911-12 Hormonal and dietary modification of NaCl toxicity (rats) mice)
P01HL-11414-11 0028 Thrombosis and atherosclerosis program - Catecholamine metabolism in the lung (rat)
R01HL-11901-12 0012 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Animal atherosclerosis implications (pigeons, dogs, rabbits)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
P01HL-13262-07 0024 Arterial wall in atherosclerosis - Serial ocular changes in arteriosclerosis and hypertension
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
P01HL-16118-06 0003 Study of emphysema - Degradation of collagen and elastin (human, hamsters, mice)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
R01HL-16828-04 Gradient and transport of oxygen in tissue and organs (mammals)
R01HL-17463-03 Composition and structure of plasma lipoproteins (human, rabbits)
P01HL-18575-03 0005 Mechanisms of vascular changes in hypertension - Renin synthesis in normotensive and hypertensive pigs (also rats, dogs)
R01HL-18610-03 Early intervention of age related arterial changes (pigeon)
R01HL-18723-03 Genetic heterogeneity of acid lipase--Atherosclerosis (human)
** R01HL-20005-03 Factors in blood pressure levels of children
R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)
R01HL-20426-03 Myocardial function in diabetes mellitus (dog, rat)
R01HL-20483-03 Sterol balance and cholesterol absorption in diabetics (human)
R01HL-20539-03 Blood glucose, hemoglobin A1c, and diabetic vascular disease (human)
R01HL-21307-01 Risk reduction and exercise fitness in a population
R18HL-21906-01 Stanford five city multifactor risk reduction study
R01HL-22121-02 Oyslipoproteinemia in diabetes and vascular disease (human)
R01HL-22298-02 Origins of hypertension (human)
R01HL-22783-01 Hemodynamic induction of intimal fibromuscular lesion
N01HV-12157-14 Lipid research clinic (human)

NUTRITION, DIET, FASTING

SEE ALSO DRUGS, PHARMACOLOGY, BIOAVAILABILITY
SEE ALSO NUTRITIONAL ABNORMALITIES, STARVATION
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-18705-03 Regulation of plasma triglyceride metabolism (rats)
R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)
R01HL-22812-01 Regulation of hepatic production of HDL (rats)

NUTRITION, DIET, VEGETARIANISM

R01HL-15308-07 Assays for peptides of lipoproteins (human)

NUTRITION, DIET PATHOGENIC

N01HI-32926-10 Analysis of lipoproteins (animals)
** R01HL-01803-23 0010 Arteriosclerosis, glomerulonephritis, rheumatic fever - Atherosclerosis induction--Graft rejection and hypercholesterolemia (rabbits)
** R01HL-01803-23 0015 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic endothelial injury and lipid diet atherosclerosis (rabbits, monkey)
R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
** R01HL-05209-18 Lipid metabolism (monkeys)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P01HL-06312-17 0021 Surgical cardiology - Cardiac transplantation-Effect of immunosuppression on atherogenesis (monkeys)
** P01HL-06835-17 0014 Cardiovascular disease - Dietary induction of severe atherosclerosis and its prevention (dogs)
P01HL-06835-17 0015 Cardiovascular disease - Plasma cholesterol esterification in canine atherosclerosis
** P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)
** P01HL-06835-17 0017 Cardiovascular disease - Studies on obese hypertensive rats
P01HL-06835-17 0020 Cardiovascular disease - Lipid metabolism (rats)
P01HL-06835-17 0021 Cardiovascular disease - Animal study in atherosclerosis (dog, guinea pig)
P01HL-06835-17 0024 Cardiovascular disease - Studies on the obese spontaneously hypertensive rat
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
** P50HL-14164-07 0027 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (squirrel monkey)
** P50HL-14164-07 0028 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (African green monkey)
P50HL-14164-07 0029 A/S SCOR--Comparative and experimental atherosclerosis - Development of pigeon substrains
** P50HL-14164-07 0030 A/S SCDR--Comparative and experimental atherosclerosis - Morphology, angiochemistry--Diet induced lesions in African green monkey
P50HL-14164-07 0033 A/S SCOR--Comparative and experimental atherosclerosis - Comparative studies of lipoprotein distribution and metabolism (monkeys)
P50HL-14164-07 0038 A/S SCOR--Comparative and experimental atherosclerosis - Peripheral vascular studies--Cholesterol, lesion regression, vascular function
P50HL-14164-07 0042 A/S SCOR--Comparative and experimental atherosclerosis - Comparative cardiology laboratory (monkeys)
** P50HL-15062-07 0018 Study of lipoproteins, artery wall, and atherosclerosis - Reversal of atherosclerosis in monkeys
P50HL-15062-07 0021 Study of lipoproteins, artery wall, and atherosclerosis - Core laboratories
** P50HL-15103-07 0013 A/S SCOR--Early natural history of arteriosclerosis - Experimental models of atherosclerosis (monkeys)
R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
R01HL-16588-05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
P50HL-17648-04 0021 Study of ischemic heart disease - Biventricular contractile responses to acute myocardial infarction (mammals)
R01HL-18060-04 Exercise and coronary atherosclerotic heart disease (monkeys)
P50HL-18318-03 0002 Pathogenesis and complications of hypertension - Core experimental animal facility (rats, rabbits)
P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
P01HL-18645-03 0001 Biology of the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
M P50HL-19362-02 A/S SCDR--Atherosclerosis in nonhuman primates
** P50HL-19362-02 0001 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of infant nutrition on atherosclerosis (baboons)
P50HL-19362-02 0002 A/S SCDR--Atherosclerosis in nonhuman primates - Infant caloric intake, adipose tissue development and atherosclerosis (baboon)
P50HL-19362-02 0003 A/S SCDR--Atherosclerosis in nonhuman primates - Heritability of characters related to atherosclerosis (baboons)
P50HL-19362-02 0004 A/S SCDR--Atherosclerosis in nonhuman primates - Selective breeding for characters related to atherosclerosis (baboons)
P50HL-19362-02 0016 A/S SCDR--Atherosclerosis in nonhuman primates - Core laboratory--Animal services (baboon)
R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)
** P01HL-20993-02 0006 Population dynamics of arterial cells in atherogenesis - Mechanism of regression of atherosclerosis by diet and injury (swine)

NUTRITION, DIET SCHEDULE AND ROUTE

SEE ALSO DRUGS, PHARMACDLOGY, BIOAVAILABILITY
P50HL-14164-07 0030 A/S SCOR--Comparative and experimental atherosclerosis - Morphology, angiochemistry--Diet induced lesions in African green monkey

NUTRITION, DIET SCHEDULE AND ROUTE, PARENTERAL FEEDING

P01HL-09011-15 0020 A research and resource program in blood - Passive immunization in the prevention of transmission of hepatitis B (human)
** P50HL-14214-07 0031 Newborn lung center for hyaline membrane disease - Essential fatty acid deficiency and HMD (human)
** P50HL-14218-07 0004 Pulmonary SCDR--Newborn lung center - Metabolism of infants with respiratory distress syndrome (human)
R01HL-15607-06 Physiological control of splanchnic circulation (dogs)

NUTRITION, DIET THERAPEUTIC

SEE ALSO NUTRITION, DIET SCHEDULE AND RDUTE
SEE ALSD NUTRITIONAL DISORDERS CHEMOTHERAPY
SEE ALSO NUTRITIONAL REQUIREMENTS, DIETARY SUPPLEMENTS
R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)
R01HL-01803-23 0005 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic and dietary synergy in the pathogenesis of atherosclerosis (rabbits)
R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)
P01HL-06835-17 0014 Cardiovascular disease - Dietary induction of severe atherosclerosis and its prevention (dogs)
P01HL-06835-17 0021 Cardiovascular disease - Animal study in atherosclerosis (dog, guinea pig)
P01HL-06835-17 0024 Cardiovascular disease - Studies on the obese spontaneously hypertensive rat
R01HL-11901-12 0006 Effects of metabolic surgery on the hyperlipidemias - Drug therapy with ileal bypass (rabbits)
R01HL-11901-12 0009 Effects of metabolic surgery on the hyperlipidemias - Cholesterol cord blood and family management program
R01HL-11901-12 0013 Effects of metabolic surgery on the hyperlipidemias - Human cholesterol and bile acids dynamics--Ileal bypass
R01HL-11901-12 0018 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass--Postoperative complications (human)
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
** R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
P50HL-14164-07 0032 A/S SCOR--Comparative and experimental atherosclerosis - Plasma cholesterol, lesion regression and vascular function (Rhesus monkey)
** P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
P50HL-14230-07 0088 A/S SCDR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
P50HL-14236-05 0005 Prevention of premature arteriosclerosis - Genetically hyperlipidemic and hypolipidemic rats
P50HL-14236-05 0010 Prevention of premature arteriosclerosis - Computer programs
** P50HL-14236-05 0011 Prevention of premature arteriosclerosis - Nutritional program
** P50HL-14237-07 0006 Support for arteriosclerosis center - Drug treatment of familial hyperbetalipoproteinemia (human)
P50HL-15062-07 0018 Study of lipoproteins, artery wall, and atherosclerosis - Reversal of atherosclerosis in monkeys
P01HL-15265-05 0014 Program on surgical control of the hyperlipidemias - Arkansas clinical center
** R01HL-15504-05 Animal model for studies on averting atherosclerosis (swine)
R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)
** P60HL-17269-04 0043 National heart and blood vessel research and demonstration center - Dietary modification--Effect on cardiovascular risk parameters (human)
R01HL-18454-03 Maximal exercise testing in hyperlipidemic children
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
R01HL-19109-03 Regression of chronic atherosclerosis (rabbits)
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
R01HL-19877-02 Prevention of high blood pressure in children
R01HL-20369-03 The effect of alcohol on the heart (rats)
** R01HL-20910-02 The alternative diet for coronary disease prevention (human)
R01HL-20924-02 Atherosclerosis and arterial cell functions (human, rabbits)
** P01HL-20993-02 0004 Population dynamics of arterial cells in atherogenesis - Modifications of cholesterol balance related to arterial cell divisions (swine)
P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
P50HL-21006-02 0002 Specialized center of research in arteriosclerosis - Turnover and metabolism of cholesterol in man
R01HL-21427-02 Behavioral changes in post infarction patients
R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)
R01HL-22341-01 Pathogenesis of atherosclerosis in rats
** R23HL-22345-02 0001 Behavioral cardiovascular compliance strategies - Long term modification of dietary patterns (human)
** R01HL-22847-01 Test for adherence to diets rich in linoleic acid
N01HV-12156-10 Lipid research clinic
N01HV-12158-10 Establishment of a lipid research clinic
N01HV-12159-09 Lipid research clinic
N01HV-12160-15 Establishment of a lipid research clinic
N01HV-22913-09 Lipid research clinic
N01HV-22914-08 Establishment of a lipid research clinic
N01HV-22917-11 Lipid research clinic (human)
N01HV-22971-07 Prevention of coronary heart disease (human)
N01HV-22976-07 Multiple risk factor intervention trial, prevention of coronary heart disease
N01HV-22977-08 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22979-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22981-10 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-32931-09 Establishment of a lipid research clinic center
N01HV-33101-06 Development and conduct of a multiple risk factor intervention trial (human)
N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33108-04 Prevention of coronary heart disease (human)
N01HV-33109-04 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33110-04 Prevention of coronary heart disease (human)
N01HV-42929-08 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42930-09 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42931-07 Risk factor intervention trail for the prevention of CHD (men)
N01HV-42932-05 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42933-09 Multiple risk factors in coronary heart disease (human)
** N01HV-72983-00 Nutrition counseling in hyperlipidemia

NUTRITION, DIET THERAPEUTIC, HYPERALIMENTATION (THERAPY)

SEE ALSO NUTRITION, DIET SCHEDULE AND RDUTE, PARENTERAL FEEDING
** P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)

NUTRITION, DIET THERAPEUTIC, REDUCING DIET

** P50HL-14138-05 0010 Center for research on atherosclerosis - Diet and exercise as therapy in men with premature atherosclerosis
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
R01HL-19877-02 Prevention of high blood pressure in children
R01HL-20397-03 VLDL-TG metabolism in diabetes mellitis (human, rat)

NUTRITION, DIET THERAPEUTIC, SALT RESTRICTED

SEE ALSO NUTRITION, DIETARY CONSTITUENTS, DIETARY SALTS
** P01HL-06835-17 0046 Cardiovascular disease - Renin activity during salt depletion in essential hypertension (human)
P01HL-06835-17 0050 Cardiovascular disease - 18-Hydroxylase block in the 17 alpha-hydroxylase deficiency syndrome (human)
P01HL-06835-17 0059 Cardiovascular disease - Metyrapone-induced hypertension in dog
R01HL-14133-08 Intrarenal regulation of sodium reabsorption (dogs, hamsters, rats)
P50HL-18323-04 0043 SCOR hypertension center - Pharmacology--Renin-aldosterone mechanisms in essential hypertension (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-18575-03 0002 Machanisms of vascular changes in hypertansion - Endocrinas, alactrotytes, and hamodynamics in hypertansion (pigs)
** R01HL-18891-02 Electrolyta intake and blood prassure in hypertansion (human)
R01HL-19467-03 Regulation of blood pressura (rats, dogs)
R01HL-19877-02 Prevention of high blood pressure in chitdran
R01HL-20278-02 Cellular mechanisms of renin secretion (rats)
R01HL-20910-02 The alternative diat for coronary diseasa prevention (human)

NUTRITION, DIET THERAPEUTIC, VITAMIN THERAPY (ALL ROUTES OF ADMINISTRATION)

** P60HL-23282-01 0003 Comprehensive hospital/community sickle cell center - Traatment of sickla cell ulcers with physical therapy and vitamin E (human)

NUTRITION, DIETARY CONSTITUENTS (GENERAL)

SEE ALSO GASTROINTESTINAL FUNCTION, ABSORPTION TRANSPORT, OIETARY NUTRIENTS

** R01HL-03299-21 Oietary affacts on cholestarol metabolism (rats, rabbits)
R01HL-11614-11 Traca elements in nutrition (chickans, rats, human)
P50HL-14214-07 0028 Newborn lung canter for hyalina membrane disaase - Ralationship of trace matals to respiratory failure (dog, shaap, human)
** P01HL-14388-07 0159 Regulation of the circulation in pathological statas - Early drug and diet intarvantions and blood prassure devalopment (rats)
P01HL-14388-07 0190 Ragutation of tha circulation in pathological statas - Machanisms of the renal actions of aldostarone (rats)
** P01HL-14388-07 0210 Regulation of the circulation in pathological statas - Effacts of diatary sodium on blood pressura and vascular raactivity
P01HL-14388-07 0223 Ragulation of tha circulation in pathological states - Kallikrein-kinin systam in hypertansion (rats)
P01HL-14388-07 0224 Ragulation of the circulation in pathological states - Kallikrein-kinin system in hypertansion (human)
P01HL-18575-03 0002 Machanisms of vascular changas in hypertension - Endocrines, alactrolytas, and hemodynamics in hypertension (pigs)
P50HL-19362-02 0001 A/S SCOR--Atharosclerosis in nonhuman primatas - Effacts of infant nutrition on atherosclerosis (baboons)
R01HL-21764-01 Ultramicroanalysis of prostaglandins and ralatad compounds (rats)
R01HL-22273-01 Oral and tung absorption of nitroglycerin (rats)

NUTRITION, DIETARY CONSTITUENTS, CALORIC CONTENT

SEE ALSO NUTRITION, OIET THERAPEUTIC, REOUCING OIET

P50HL-14218-07 0004 Pulmonary SCOR--Nawborn lung center - Metabolism of infants with respiratory distress syndrome (human)
** P50HL-19362-02 0002 A/S SCOR--Atherosclerosis in nonhuman primates - Infant caloric intake, adipose tissue development and atherosclerosis (baboon)
R01HL-22567-01 Validation of a cholesterol absorption method in man
R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)
N01HV-62955-04 Oata collection in clinical pathology and morbid anatomy (men)

NUTRITION, DIETARY CONSTITUENTS, DIETARY AMINO ACIDS

P50HL-14218-07 0004 Pulmonary SCOR--Newborn lung center - Metabolism of infants with respiratory distress syndrome (human)

NUTRITION, DIETARY CONSTITUENTS, DIETARY CARBOHYDRATES

R01HL-03299-21 Oietary effects on cholesterol metabolism (rats, rabbits)
R01HL-05209-18 Lipid metabolism (monkeys)
R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
R01HL-10933-13 Fat metabolism and atherosclerosis (rabbits, cattle, human, rats)
R01HL-12138-08 Nutritional regulation of enzyme activity (rats, human)
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
P50HL-14218-07 0004 Pulmonary SCOR--Newborn lung center - Metabolism of infants with respiratory distress syndrome (human)
P50HL-15103-07 0013 A/S SCOR--Early natural history of arteriosclerosis - Experimental models of atherosclerosis (monkeys)
R01HL-15263-06 Lecithin--Cholesterol acetyltransferase (human, rabbits)
** R01HL-15840-02 Sugar-induced heart lesions and vitamin K deficiency (birds, mammals subhuman)
R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)
R01HL-20910-02 Tha altornative diet for coronary disease prevention (human)
R01HL-22607-01 Rola of apolipoprotain E in lipoprotein metabolism (human)
R01HL-22812-01 Ragulation of hapatic production of HOL (rats)
R01HL-23159-01 Ragulation of lipogenesis by polyunsaturated fats (rats, chicks)

NUTRITION, DIETARY CONSTITUENTS, DIETARY IRON

R01HL-18712-03 Iron deficiancy-hyparlipidemia in davalopment (rats)

NUTRITION, DIETARY CONSTITUENTS, DIETARY LIPIDS

N01HI-32926-10 Analysis of lipoprotains (animals)
** R01HL-01803-23 0005 Arteriosclerosis, glomerulonephritis, rhaumatic fevar - Immunologic and dietary synargy in tha pathoganasis of atharosclarosis (rabbits)
R01HL-01803-23 0015 Artariosclarosis, glomerulonephritis, rhaumatic fevar - Immunologic endothalial injury and lipid diet atharosclarosis (rabbits, monkay)
** R01HL-01979-22 Arteriosclarosis in zoo animals on controllad diets (animals)
R01HL-03299-21 Diatary affacts on cholesterol metabolism (rats, rabbits)
R01HL-03341-22 Epidamiology of atherosclarosis in Evans Co Georgia
R01HL-05209-18 Lipid metabolism (monkeys)
R01HL-05360-19 Cholestarol biosynthasis and its control in livar (rats)
R01HL-06222-18 Clinical and laboratory studias in lipid matabolism (human, mammals, non-human)
P01HL-06835-17 0024 Cardiovascular disaasa - Studies on the obasa spontaneously hypertensive rat
P01HL-08214-15 0005 Chemical and biological proparties of lipids - Metabolism of lipids in animals
R01HL-08506-15 Lipamia-carbohydrate and glyceride matabolism (human, rats)
R01HL-08634-15 Enzymic cholesterol synthasis (human, rats, protozoa, yeast)
M P01HL-08974-14 Natural and experimental atherosclerosis
P01HL-08974-14 0005 Natural and experimental atharosclerosis - Atherosclerosis, coronary heart diseasa and sudden death (human)
P01HL-08974-14 0024 Natural and exparimental atharosclerosis - Atherosclerosis, starol and lipoprotain matabolism in nonhuman primates
R01HL-09610-14 Control of cholestarol matabolism--Bila acid transport
** R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
R01HL-10894-12 Intestinal bacteria and staroid matabolism (human, guinea pigs, rabbits, rats)
R01HL-10933-13 Fat metabolism and atherosclerosis (rabbits, cattle, human, rats)
R01HL-12138-08 Nutritional regulation of enzyme activity (rats, human)
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
P50HL-14164-07 0027 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (squirrel monkey)
P50HL-14164-07 0028 A/S SCOR--Comparative and experimental atherosclerosis - Hyper- and hyporesponsiveness to dietary cholesterol (African green monkey)
P50HL-14164-07 0033 A/S SCOR--Comparative and experimental atherosclerosis - Comparative studies of lipoprotein distribution and metabolism (monkeys)
P50HL-14164-07 0036 A/S SCOR--Comparative and experimental atherosclerosis - Connective tissue metabolism--Interaction with arterial metabolism (monkeys)
P50HL-14164-07 0037 A/S SCOR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
P50HL-14164-07 0042 A/S SCOR--Comparative and experimental atherosclerosis - Comparative cardiology laboratory (monkeys)
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
P50HL-14230-07 0093 A/S SCOR--Lipids, atherosclerosis and thrombosis - Clinical studies involving cellular lipid content (human)
P50HL-14237-07 0005 Support for arteriosclerosis center - Genetic determinants of apolipoprotein variability in lipoproteins (human)
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
R01HL-14781-08 Lipid deposition in mammalian cells (mice)
P50HL-15062-07 0018 Study of lipoproteins, artery wall, and atherosclerosis Reversal of atharosclerosis in monkeys
P50HL-15103-07 0013 A/S SCOR--Early natural history of arteriosclerosis - Experimental models of atherosclerosis (monkeys)
R01HL-15263-06 Lecithin--Cholesterol acetyltransferase (human, rabbits)
R01HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
R01HL-15478-05 Lipid flux and collagen synthasis in atherosclarosis (rabbits)
R01HL-15504-05 Animal modal for studies on averting atharosclarosis (swine)
R01HL-15512-06 Drug treatment of stanosing primate atharosclerosis (rabbits, monkeys)
P01HL-15596-05 0018 Coagulation, fibrinolysis, hamostasis and hapatitis - Incraased plasma lipids on blood coagulation and thrombosis (human, animals)
** R01HL-15797-05 Lipid metabolism and atharosclerosis in primatas (monkays, human, squirrels)
R01HL-15813-05 Cardiac anoxia--Protactive effact of carbohydrata (dogs)
R01HL-16206-04 Ragression of atherosclarotic plaquas (monkays, dogs)
R01HL-16587-04 Cholesterol binding saponins and atharosclerosis (monkeys)
R01HL-16588-05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
R01HL-17332-04 Usa of the gut for therapy of coronary artery disease (mammals)
R01HL-17516-04 Role of androgen as a risk factor in atharoganasis (human, animals)
R01HL-17564-03 Unsaturatad fats--Mode of hypocholastarolemic action (minipig)
R01HL-17747-04 Endothelial injury and reganaration (rats)
R01HL-17818-05 Matabolism of cholasterol and cholestarol in man (also rats, monkays)
R01HL-18060-04 Exercise and coronary atharosclerotic haart disease (monkeys)
R01HL-18219-04 Ragulation of cholastarol matabolism (rats)
** R01HL-18239-03 Oietary fat composition and prostaglandin synthesis (rats)
R01HL-18610-03 Early intervention of aga ralatad artarial changes (pigeon)
R01HL-18623-12 Physical chemistry of biologically active lipids (bactaria, plant, cattla, human)
R01HL-18636-02 Fatty acids and cholastarol transport (rats)
P01HL-18645-03 0005 Biology of the artery walt and atherosclerosis - Effects of atherosclarosis risk factors on endothelium of tha primate
P01HL-18645-03 0007 Biology of the artary wall and atharosclerosis - Lipoprotain metabolism in subhuman primates
R01HL-18682-03 Protein kinase and cholasterol metabolism in aorta (rabbits)
P50HL-18828-03 0006 Specialized centar of resaarch in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)
** R01HL-19109-03 Regression of chronic atherosclerosis (rabbits)
R01HL-19168-03 Biosynthesis of plasma lipoprotein (rats, rabbits)
R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
P01HL-19242-02 0002 Study of vascular smooth muscle - Vascular smooth muscle response to serum lipoproteins (rats)
M P50HL-19362-02 A/S SCOR--Atherosclerosis in nonhuman primates
P50HL-19362-02 0001 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of infant nutrition on atherosclerosis (baboons)
P50HL-19362-02 0002 A/S SCOR--Atherosclerosis in nonhuman primates - Infant caloric intake, adipose tissue development and atherosclerosis (baboon)
P50HL-19362-02 0003 A/S SCOR--Atherosclerosis in nonhuman primates - Heritability of characters related to atherosclerosis (baboons)
P50HL-19362-02 0004 A/S SCOR--Atherosclerosis in nonhuman primates - Selective breeding for characters related to atherosclerosis (baboons)
P50HL-19362-02 0005 A/S SCOR--Atherosclerosis in nonhuman primates - Hybridization to produce primate model of atherosclerosis (baboon, Rhesus)
P50HL-19362-02 0009 A/S SCOR--Atherosclerosis in nonhuman primates - Cholesterol metabolism and intestinal microflora (baboon)
P50HL-19362-02 0013 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Lipid biochemistry (baboons)
P50HL-19362-02 0016 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Animal services (baboon)
R01HL-19936-02 Unsaturated fatty acid biosynthesis in the aorta (rats)
R01HL-20397-03 VLOL-TG metabolism in diabetes mellitis (human, rat)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-20910-02 The alternative diet for coronary disease prevention (human)
R01HL-21416-02 Atherosclerosis in new modles of diabetes mellitus
R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
** R01HL-21513-02 Metabolism of trans fatty acids (human, rats, swine)
R01HL-21592-01 Lipoproteins and coagulation factors in atherosclerosis (pigeons)
R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)
R01HL-22567-01 Validation of a cholesterol absorption method in man
R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)
R01HL-22847-01 Test for adherence to diets rich in linoleic acid
R01HL-22967-01 Structure and function of heparin releasable lipases (swine, human)
** R01HL-23159-01 Regulation of lipogenesis by polyunsaturated fats (rats, chicks)
** R01HL-23598-01 Dietary fat, cholesterol and bile acid turnover (rats)

NUTRITION, DIETARY CONSTITUENTS, DIETARY LIPIDS, ESSENTIAL FATTY ACIDS

R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)
** P01HL-06835-17 0063 Cardiovascular disease - Studies on prostaglandins (human, rabbits)
P01HL-08214-15 0005 Chemical and biological properties of lipids - Metabolism of lipids in animals
** P50HL-14214-07 0031 Newborn lung center for hyaline membrane disease - Essential fatty acid deficiency and HMO (human)
P50HL-14218-07 0004 Pulmonary SCOR--Newborn lung center - Metabolism of infants with respiratory distress syndrome (human)
R01HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)

NUTRITION, DIETARY CONSTITUENTS, DIETARY PROTEINS

SEE ALSO PLANTS PROTEINS
R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
R01HL-05209-18 Lipid metabolism (monkeys)
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
** R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)

NUTRITION, DIETARY CONSTITUENTS, DIETARY RESIDUES-FIBERS

R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
R01HL-05209-18 Lipid metabolism (monkeys)
** P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
R01HL-16587-04 Cholesterol binding saponins and atherosclerosis (monkeys)
R01HL-20910-02 The alternative diet for coronary disease prevention (human)
P01HL-20993-02 0004 Population dynamics of arterial cells in atherogenesis - Modifications of cholesterol balance related to arterial cell divisions (swine)
R01HL-22567-01 Validation of a cholesterol absorption method in man

NUTRITION, DIETARY CONSTITUENTS, DIETARY SALTS

SEE ALSO NUTRIENT INTAKE ACTIVITY, SALT INTAKE
P01HL-06835-17 0060 Cardiovascular disease - Ventricular performance experimental models of arterial hypertension (rats, dogs)
** R01HL-09911-12 Hormonal and dietary modification of NaCl toxicity (rats) mice)
** P01HL-14388-07 0210 Regulation of the circulation in pathological states - Effects of dietary sodium on blood pressure and vascular reactivity
R01HL-14944-07 Renal vascular reactivity in hypertensive patient
P50HL-15103-07 0013 A/S SCOR--Early natural history of arteriosclerosis - Experimental models of atherosclerosis (monkeys)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
R01HL-18893-03 Mechanism of angiotensin action--Role of receptor (rats)
P50HL-19362-02 0012 A/S SCOR--Atherosclerosis in nonhuman primates - Induction of chronic hypertension by salt loading (baboon)
R23HL-21066-02 Angiotensin and prostaglandin control of aldosterone (rats)
R01HL-21274-01 Prorenin--Physiological and biochemical analysis (human)
** R01HL-21523-01 Hemodynamic effects of dietary sodium in man
R01HL-21877-01 Iso-renins in the hypertensive rat
R01HL-21893-01 Blood volume distribution in hypertension (human)
R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
R01HL-22506-01 Hemodynamics of the clinical hypertensions
R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)
R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
R01HL-22990-01 Angiotensin II receptors--Mechanisms of regulation (rats)
** R01HL-23201-01 Mechanisms of hypertension (human, rats)

NUTRITION, DIETARY CONSTITUENTS, DIETARY TRACE ELEMENTS AND MINERALS

SEE ALSO METALS, HEAVY METALS, CADMIUM
SEE ALSO METALS, HEAVY METALS, CHROMIUM
SEE ALSO METALS, HEAVY METALS, COBALT
SEE ALSO METALS, HEAVY METALS, COPPER
SEE ALSO METALS, HEAVY METALS, MANGANESE
SEE ALSO METALS, HEAVY METALS, ZINC
SEE ALSO METALS, METALLOIDS, SELENIUM
** R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)
** P50HL-14214-07 0028 Newborn lung center for hyaline membrane disease - Relationship of trace metals to respiratory failure (dog, sheep, human)
P60HL-16008-06 0015 Wayne State University comprehensive sickle cell center - Trace elements in sickle cell disease (human)
R01HL-18712-03 Iron deficiency-hyperlipidemia in development (rats)
** R01HL-22446-01 Chemical and functional studies of low copper in lung (pigs)

NUTRITION, DIETETICS

SEE ALSO NUTRITION, DIET SCHEDULE AND ROUTE
SEE ALSO NUTRITIONAL REQUIREMENTS
P60HL-17269-04 0043 National heart and blood vessel research and demonstration center - Dietary modification--Effect on cardiovascular risk parameters (human)
** R01HL-20910-02 The alternative diet for coronary disease prevention (human)
** N01HV-62941-01 Nutrition coding center for MRFIT and LRC programs

NUTRITION, MATERNAL-FETAL NUTRITION

P01HL-06285-18 0133 Cardiovascular-respiratory physiology and biochemistry - Decreased uterine blood flow and fetal development (lambs)
** R01HL-18712-03 Iron deficiency-hyperlipidemia in development (rats)

NUTRITION, NUTRITION THERAPY (NON-NUTRITIONAL DISORDERS)

R01HL-11901-12 0006 Effects of metabolic surgery on the hyperlipidemias - Drug therapy with ileal bypass (rabbits)
P50HL-14218-07 0004 Pulmonary SCOR--Newborn lung center - Metabolism of infants with respiratory distress syndrome (human)
P60HL-17269-04 0043 National heart and blood vessel research and demonstration center - Dietary modification--Effect on cardiovascular risk parameters (human)
R01HL-18454-03 Maximal exercise testing in hyperlipidemic children
R01HL-18891-02 Electrolyte intake and blood pressure in hypertension (human)
R01HL-19877-02 Prevention of high blood pressure in children
R01HL-20910-02 The alternative diet for coronary disease prevention (human)
P01HL-20993-02 0004 Population dynamics of arterial cells in atherogenesis - Modifications of cholesterol balance related to arterial cell divisions (swine)
P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
P50HL-21006-02 0002 Specialized center of research in arteriosclerosis - Turnover and metabolism of cholesterol in man
R23HL-22345-02 0001 Behavioral cardiovascular compliance strategies - Long term modification of dietary patterns (human)
P60HL-23282-01 0003 Comprehensive hospital/community sickle cell center - Treatment of sickle cell ulcers with physical therapy and vitamin E (human)

NUTRITION STUDY SECTION

** R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
** R01HL-05209-18 Lipid metabolism (monkeys)
** R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
** R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)
** R01HL-12138-08 Nutritional regulation of enzyme activity (rats, human)
** R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
** R01HL-15478-05 Lipid flux and collagen synthesis in atherosclerosis (rabbits)
** R01HL-15504-05 Animal model for studies on averting atherosclerosis (swine)
** R01HL-15840-02 Sugar-induced heart lesions and vitamin K deficiency (birds, mammals subhuman)
** R01HL-17564-03 Unsaturated fats--Mode of hypocholesterolemic action (minipig)
** R01HL-18239-03 Dietary fat composition and prostaglandin synthesis (rats)
** R01HL-18636-02 Fatty acids and cholesterol transport (rats)
** R01HL-18712-03 Iron deficiency-hyperlipidemia in development (rats)
** R01HL-19399-02 Atherosclerosis--Early events and regression factors (rats)
** R01HL-19936-02 Unsaturated fatty acid biosynthesis in the aorta (rats)
** R01HL-21513-02 Metabolism of trans fatty acids (human, rats, swine)
** R01HL-22847-01 Test for adherence to diets rich in linoleic acid
** R01HL-23159-01 Regulation of lipogenesis by polyunsaturated fats (rats, chicks)
** R01HL-23598-01 Dietary fat, cholesterol and bile acid turnover (rats)

NUTRITION THERAPY (NON-NUTRITIONAL DISORDERS)

SEE NUTRITION, NUTRITION THERAPY (NON-NUTRITIONAL DISORDERS)

NUTRITIONAL ABNORMALITIES

SEE ALSO GASTROINTESTINAL DISORDERS, MALABSORPTION SYNDROMES
SEE ALSO IRON DISORDERS AND IMBALANCES
SEE ALSO METAL DISORDERS AND IMBALANCES, MAGNESIUM DEFICIENCY
R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
** P50HL-14214-07 0028 Newborn lung center for hyaline membrane disease - Relationship of trace metals to respiratory failure (dog, sheep, human)
R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)

NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS A

R01HL-15341-06 Lung hormonal and chromosomal regulation (rats, rabbits)
P50HL-21006-02 0003 Specialized center of research in arteriosclerosis - Transport of vitamin A in plasma (human, rat)

NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS B, CHOLINE DEFICIENCY

R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)

NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS B, THIAMINE DEFICIENCY

R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
P01HL-10539-12 0068 Pathophysiology of circulation - Acute and chronic cardiomyopathies (mice, dogs, hamsters, human)

NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS C

SEE ALSO VITAMIN C
P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)

NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS E

P01HL-16833-04 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)
R01HL-22951-01 Studies on the affect of vitamin E on platelets (human, rats)

NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS K

** R01HL-15840-02 Sugar-induced heart lesions and vitamin K deficiency (birds, mammals subhuman)
** R01HL-21431-02 Factor II antigen and coagulant activity (human, animals)

NUTRITIONAL ABNORMALITIES, MALNUTRITION (GENERAL)

SEE ALSO GASTROINTESTINAL DISORDERS, MALABSORPTION SYNDROMES
P01HL-08214-15 0006 Chemical and biological properties of lipids - Analysis and properties of lipids
P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
** P50HL-14214-07 0031 Newborn lung center for hyaline membrane disease - Essential fatty acid deficiency and HMO (human)
R01HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
P01HL-17871-04 0010 Kidney, sodium, cardiac output, arterioles and hypertension Renal prostaglandins metabolism in hypertension (rats, dogs)
R01HL-21912-01 Biosynthesis of lipoic acid and atherosclerosis (birds, chick embryos)
** R01HL-22446-01 Chemical and functional studies of low copper in lung (pigs)

NUTRITIONAL ABNORMALITIES, PROTEIN DEFICIENCY
** P01HL-19717-02 0026 Response of the lung to injury - Protein depletion and postnatal lung development (rats)

NUTRITIONAL ABNORMALITIES, STARVATION
SEE ALSO NUTRITION, DIET, FASTING
R01HL-12138-08 Nutritional regulation of enzyme activity (rats, human)
P01HL-20984-02 0004 Cellular mechanisms in cardiac hypertrophy - Myofibril accumulation in cardiac and vascular muscle cells in hypertrophy
P01HL-22619-01 0007 Cellular mechanisms of heart failure - Regulation of contractile protein levels in heart muscle (rats)
R01HL-22651-01 Control of protein metabolism in heart muscle

NUTRITIONAL DISORDERS CHEMOTHERAPY
SEE ALSO NUTRIENT INTAKE ACTIVITY, APPETITE DEPRESSANTS
SEE ALSO NUTRITION, DIET THERAPEUTIC
SEE ALSO NUTRITION, DIET THERAPEUTIC, VITAMIN THERAPY (ALL ROUTES OF ADMINISTRATION)
R01HL-21431-02 Factor II antigen and coagulant activity (human, animals)

NUTRITIONAL REQUIREMENTS
SEE ALSO NUTRITION, DIETARY CONSTITUENTS, DIETARY LIPIDS, ESSENTIAL FATTY ACIDS
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
** P50HL-14218-07 0004 Pulmonary SCOR--Newborn lung center - Metabolism of infants with respiratory distress syndrome (human)

NUTRITIONAL REQUIREMENTS, DIETARY SUPPLEMENTS
P50HL-14214-07 0031 Newborn lung center for hyaline membrane disease - Essential fatty acid deficiency and HMO (human)
R01HL-18891-02 Electrolyte intake and blood pressure in hypertension (human)
R01HL-22446-01 Chemical and functional studies of low copper in lung (pigs)

NYLON
SEE PLASTICS, NYLON

NYSTATIN
SEE ANTIBIOTICS, NYSTATIN

OBESITY
SEE BODY WEIGHT, OBESITY

OBESITY HEREDITARY HYPERGLYCEMIC
SEE METABOLIC DISORDERS INBORN, OBESITY HEREDITARY HYPERGLYCEMIC

OBESITY REVERSING FACTOR, PITUITARY
SEE LIPID MOBILIZING FACTORS PITUITARY

OBLITERATION VASCULAR, THERAPEUTIC
SEE CARDIOVASCULAR SURGERY, VASCULAR OCCLUSION THERAPEUTIC

OCCIPITAL LOBE
SEE BRAIN, CEREBRUM, OCCIPITAL LOBE

OCCLUSION VASCULAR, THERAPEUTIC
SEE CARDIOVASCULAR SURGERY, VASCULAR OCCLUSION THERAPEUTIC

OCCUPATIONAL DISEASES
SEE OCCUPATIONAL HEALTH, OCCUPATIONAL DISEASES

OCCUPATIONAL HAZARDS
SEE OCCUPATIONAL HEALTH, OCCUPATIONAL HAZARDS

OCCUPATIONAL HEALTH
R01HL-18907-03 Objective evaluation early after MI and heart surgery (human)

OCCUPATIONAL HEALTH, INDUSTRIAL MEDICINE
** P01HL-10539-12 0066 Pathophysiology of circulation - Usefulness of relaxation response in industrial settings
** P50HL-18323-04 0035 SCOR hypertension center - Control of high blood pressure at the work site
** R25HL-18424-03 Blood pressure education in an industrial setting (human)

OCCUPATIONAL HEALTH, OCCUPATIONAL DISEASES
SEE ALSO METALS POISONING
SEE ALSO OCCUPATIONAL HEALTH, OCCUPATIONAL HAZARDS
SEE ALSO RESPIRATORY DISORDERS, BYSSINOSIS
SEE ALSO RESPIRATORY DISORDERS, PNEUMOCONIOSIS
SEE ALSO RESPIRATORY DISORDERS, PNEUMONITIS ALLERGIC INTERSTITIAL, FARMER'S LUNG
R01HL-12833-09 Genetic and environmental influences on lung disease (human)
P50HL-14153-07 0001 Johns Hopkins Lung Center--Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)
M P50HL-15092-07 Immune and fibrotic response to occupational environments
** P50HL-15092-07 0001 Immune and fibrotic response to occupational environments - X-ray diffraction study-Dust exposure in asbestos cement products manufacturing
** P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
** P50HL-15092-07 0005 Immune and fibrotic response to occupational environments - Respiratory and immunologic evaluation of toluene diisocyanate exposure (human)
** P50HL-15092-07 0006 Immune and fibrotic response to occupational environments - Immunologic studies in silicosis (human, rabbits, hamsters, guinea pigs)
** P50HL-15092-07 0007 Immune and fibrotic response to occupational environments - Asbestosis--Cellular immunity, structure and mineral localization (human)
** P50HL-15092-07 0010 Immune and fibrotic response to occupational environments - Characterization of toluene diisocyanate in industrial environments
** P50HL-15092-07 0011 Immune and fibrotic response to occupational environments - Respiratory and immunologic responses in coffee plant workers
** P50HL-15092-07 0012 Immune and fibrotic response to occupational environments - Longitudinal evaluation of workers exposed to cotton dust
** P50HL-15092-07 0013 Immune and fibrotic response to occupational environments - Epidemiology core resource
** P50HL-15092-07 0014 Immune and fibrotic response to occupational environments - Clinical immunology core resource
P50HL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
P50HL-15389-07 0009 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies--Pulmonary mycotoxicosis
P60HL-17292-04 0003 Vermont Lung Center - Subclinical pulmonary disease in a rural environment (human)
** P60HL-17292-04 0005 Vermont Lung Center - Mineral pneumoconioses--Pathogenesis and pathology (human)
R01HL-17543-03 0001 Magnetic tracers for diagnosis of lung disease - Chronic, interstitial lung disease (human, rabbits)
R01HL-17543-03 0002 Magnetic tracers for diagnosis of lung disease - Magnetite as an index of asbestos exposure (human)
R01HL-17543-03 0003 Magnetic tracers for diagnosis of lung disease - Occupationally accumulated magnetite for diagnosis of lung disease (human)
R01HL-19237-03 Obstructive lung disease and alveolar macrophages (human, animals)
** R01HL-20815-02 Validation of indirect tests of small airways function (human, dogs, ponies)

OCCUPATIONAL HEALTH, OCCUPATIONAL HAZARDS
P50HL-19170-02 0005 Harvard pulmonary SCOR--Chronic diseases of the airways - Pulmonary toxicology of plastics intermediates and pyrolysis products (animal)
** R01HL-20364-01 Episodic hypertension associated with human behavior (air traffic controllers)
N01HR-32903-11 Pilot study to standardize the measurement of 'closing volume' (human)

OCCUPATIONS
SEE ALSO CHILD WELFARE, CHILD CARE PERSONNEL
SEE ALSO EDUCATION, TEACHING
SEE ALSO HEALTH CARE SERVICES, REHABILITATION VOCATIONAL
SEE ALSO SOCIOECONOMICS, INCOME, LOW INCOME GROUPS
R01HL-04697-17 International heart disease epidemiology (human)
P50HL-14136-07 0016 Pulmonary SCOR--Airways obstructive diseases - Environmental factors in airways obstructive diseases (human)
P01HL-19717-02 0039 Response of the lung to injury - Lung scanning in alveolitis and asbestolic interstitial pneumonia (human, animal)
P01HL-19717-02 0043 Response of the lung to injury - Asbestosis as a model of usual interstitial pneumonia (human)
P01HL-19717-02 0044 Response of the lung to injury - Lung sound analysis (human)
** N01HV-82913-00 Demonstration programs in hypertension control in the work setting (human)

OCCUPATIONS, AGRICULTURAL WORKERS
P50HL-15389-07 0009 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies--Pulmonary mycotoxicosis

OCCUPATIONS, EMPLOYMENT
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
R01HL-20364-01 Episodic hypertension associated with human behavior (air traffic controllers)

OCCUPATIONS, INDUSTRY
R01HL-12833-09 Genetic and environmental influences on lung disease (human)
M P50HL-15092-07 Immune and fibrotic response to occupational environments
P50HL-15092-07 0001 Immune and fibrotic response to occupational environments - X-ray diffraction study--Dust exposure in asbestos cement products manufacturing
P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
P50HL-15092-07 0005 Immune and fibrotic response to occupational environments - Respiratory and immunologic evaluation of toluene diisocyanate exposure (human)
P50HL-15092-07 0006 Immune and fibrotic response to occupational environments - Immunologic studies in silicosis (human, rabbits, hamsters, guinea pigs)
P50HL-15092-07 0010 Immune and fibrotic response to occupational environments - Characterization of toluene diisocyanate in industrial environments
P50HL-15092-07 0011 Immune and fibrotic response to occupational environments - Respiratory and immunologic responses in coffee plant workers
P50HL-15092-07 0012 Immune and fibrotic response to occupational environments - Longitudinal evaluation of workers exposed to cotton dust
P50HL-15092-07 0013 Immune and fibrotic response to occupational environments - Epidemiology core resource
P50HL-15092-07 0014 Immune and fibrotic response to occupational environments - Clinical immunology core resource

OCCUPATIONS, INDUSTRY, MINING
R01HL-22802-01 A rural mining community hypertension control project (human)

OCCUPATIONS, JOB SATISFACTION
P01HL-10539-12 0066 Pathophysiology of circulation - Usefulness of relaxation response in industrial settings
R01HL-23078-01 Psychosocial stress and sudden coronary death (human)

OCCUPATIONS, LEISURE
R01HL-20662-02 Physical activity, fitness and epidemiology of CHD

OCCUPATIONS, RECREATION
P60HL-15158-07 0010 Comprehensive sickle cell center - Tutorial service for sickle cell anemia patients

OCCUPATIONS, VOCATIONAL GUIDANCE
P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling

OCEANIC RESEARCH
SEE WATER ENVIRONMENT, OCEANIC RESEARCH

ODORATISM
SEE TOXICOLOGY, PLANT POISONING, LATHYRISM

ODOR (AS OLFACTORY STIMULI)
SEE SENSORY-PERCEPTUAL PROCESSES, OLFACTORY STIMULI

OINTMENTS
SEE DOSAGE FORMS

OLD AGE
SEE AGE (HUMAN), ADULT, OLD AGE (65 TO 99 YRS)

OLD YELLOW ENZYME
SEE OXIDOREDUCTASES, NADPH DEHYDROGENASE

OLD WORLD MONKEYS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS (CATARRHINES)*

OLEFINS
SEE CYCLOOLEFINS --ALSO SEE APPROPRIATE CARBOPOLYCYCLICS AND

OLEIC ACID
SEE FATTY ACIDS, OLEIC ACID

N-OLEOYLSPHINGOSINE
SEE SPHINGOLIPIDS, CERAMIDE

OLFACTORY PATHWAYS
SEE BRAIN, CEREBRUM, HIPPOCAMPAL FORMATION
SEE BRAIN, LIMBIC SYSTEM

OLFACTORY STIMULI
SEE SENSORY-PERCEPTUAL PROCESSES, OLFACTORY STIMULI

OLIGOMYCIN
SEE ANTIBIOTICS, OLIGOMYCIN

OLIGOPEPTIDES
SEE PEPTIDES, OLIGOPEPTIDES

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

OLIGOSACCHARIDE INTOLERANCE
SEE METABOLIC DISORDERS INBORN, DISACCHARIDE (OLIGOSACCHARIDE) INTOLERANCE

OLIGOSACCHARIDES
SEE ALSO CARBOHYDRATES STRUCTURE, SUGAR SEQUENCE
SEE ALSO METABOLIC DISORDERS INBORN, DISACCHARIDE (OLIGOSACCHARIDE) INTOLERANCE
** P01HL-11310-12 0099 Mechanisms of cardiovascular disease - Carbohydrate chemistry of thy-1 and related synaptosomal proteins
P01HL-11310-12 0105 Mechanisms of cardiovascular disease - Biosynthesis of mammalian glycoproteins (rabbits)
R01HL-14271-07 Physico-chemical properties of tracheal mucus (dogs, frogs)
R01HL-16166-05 Structure of alpha-1-antitrypsin in relation to emphysema (human)
** R01HL-17783-04 Complex carbohydrates--Structure, function, synthesis (swine)
R01HL-17881-15 Biosynthesis and degradation of blood group substances (human, animals)
R01HL-19011-03 Smooth muscle cell membrane glycoprotein biosynthesis (cattle)
R01HL-20547-02 Glycoproteins in pulmonary alveolar proteinosis (human)
R01HL-20868-02 Regulation of glycoprotein biosynthesis in lung (swine)
R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
R01HL-21615-01 Structural studies of lung heparinoid polysaccharides (cattle)
R01HL-22967-01 Structure and function of heparin releasable lipases (swine, human)

OLIGURIA
SEE KIDNEY DISORDERS, ANURIA, OLIGURIA

OMENTUM
SEE BODY CAVITIES, OMENTUM

ON-LINE COMPUTERS
SEE COMPUTER, ON-LINE COMPUTERS*

ONION AND GARLIC
SEE PLANTS, ANGIOSPERMS, ALLIUM*

ONTOGENY
SEE AGE (ANIMAL), IMMATURE
SEE EMBRYOLOGY
SEE GROWTH AND DEVELOPMENT
SEE PREGNANCY, EMBRYO-FETUS

OPERANT CONDITIONING
SEE PSYCHOLOGY, CONDITIONING, OPERANT

OPERATIONS RESEARCH
SEE INFORMATION AND COMMUNICATION, SYSTEMS ANALYSIS, OPERATIONS RESEARCH

OPHTHALMIC ARTERY
SEE EYE CIRCULATION, OPHTHALMIC ARTERY

OPSONINS
SEE IMMUNOLOGY, ANTIBODIES, OPSONINS

OPTICAL DENSITY
SEE PHYSICAL PROPERTIES, DENSITOMETRY*

OPTICAL MASERS
SEE OPTICS, LASERS*

OPTICAL ROTATION*
R01HL-16474-05 Antibiotic-ion interactions (model membranes)

OPTICS, BIREFRINGENCE*
P01HL-16117-05 0004 Ion movements and membranes in cardiovascular control - Optical studies of excitation-contraction coupling (frogs, snakes)
P01HL-18576-03 0002 Thrombosis research program project - Molecular basis of fibrin formation (human, cattle, lamprey)

OPTICS, CHROMOPHORE*
R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin

OPTICS, DICHROISM CIRCULAR*
P01HL-06285-18 0215 Cardiovascular-respiratory physiology and biochemistry - Conformation of biopolymers
** P01HL-16833-04 0015 Hemoglobin and red cell system in hemoglobinopathies - Stereochemistry of hemoglobins from magnetic circular dichroism (human)
P01HL-17419-04 0007 Studies on mechanisms of hemostasis - Structural analysis of ordered forms of fibrinogen (human, cattle)
P01HL-22619-01 0011 Cellular mechanisms of heart failure - Reaction of lipoproteins and apolipoproteins with lipoprotein lipase (cattle)

OPTICS, DICRHOISM CIRCULAR MAGNETIC*
P01HL-16833-04 0015 Hemoglobin and red cell system in hemoglobinopathies - Stereochemistry of hemoglobins from magnetic circular dichroism (human)

OPTICS, FIBER OPTICS*
** P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
** R01HL-13885-08 9003 Cystic fibrosis and pulmonary disease - Fiberoptic bronchoscopy core facility (human, dogs, sheep)
** R01HL-19993-02 Optical detection of platelet aggregates (human, baboons)
R01HL-20192-02 Ciliary activity of the lung studied by laser scattering

OPTICS, FLUOROMETRY*
** P01HL-07896-15 0032 Environmental biomedical research program - Fluorometry study of brain exposed to hyperbaric oxygen (dogs, cats)
R01HL-15677-06 Autonomic nervous system function in bronchial asthma (human, guinea pig, rabbit)
P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)

OPTICS, IMAGE ENHANCEMENT*
SEE ALSO OPTICS, PHOTOGRAPHY, HOLOGRAPHY*
P01HL-16910-05 0001 Regulation of the peripheral circulation - Quantitative studies of microcirculatory control (bats)
R01HL-20872-02 Multidimensional echo imaging of the ischemic heart

OPTICS, IMAGE PROCESSING ANALYSIS AND DISPLAY*
M P01HL-04664-18 Cardiovascular and lung dynamics
** P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
** P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique
** P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
P01HL-06664-17 0041 Cardiopulmonary function in remediable vascular disease - Core facility for quantitative microscopy
R01HL-11153-12 Quantitation of flow and solute flux in microvessels (cats, rats)
P01HL-11307-12 9001 Biophysical studies in pediatric cardiology - Core support--computer science
P01HL-11414-11 0024 Thrombosis and atherosclerosis program - Radiographic demonstration of small coronary arteries (human, dogs)
R01HL-12715-10 Dynamic cardiovascular measurement using ultrasound
** P50HL-14136-07 0005 Pulmonary SCOR--Airways obstructive diseases - Radiographic studies of airways obstructive disease (human)
P50HL-14136-07 9004 Pulmonary SCOR--Airways obstructive diseases - Radiology core (human)
P50HL-14138-05 0009 Center for research on atherosclerosis - Core angiographic-diagnostic laboratory (human, dogs, birds)
** P50HL-14138-05 0016 Center for research on atherosclerosis - Computer analysis of angiograms
R01HL-15016-07 New concepts in cardiac ultrasound technology (human)
P60HL-16005-05 0015 Comprehensive sickle cell center - Molecular basis for the sickling phenomenon
R01HL-16260-04 Development of clinical cine ultrasound cardiography
** R01HL-16487-05 Computer controlled two dimensional echocardiography
** R01HL-16791-03 Computer linkage for a dual camera system
P60HL-17269-04 0027 National heart and blood vessel research and demonstration center - Non-invasive evaluation of cardiac function--Ischemic heart disease (human, dog)
P60HL-17269-04 0031 National heart and blood vessel research and demonstration center - Computer-assisted data acquisition and clinical data processing
P50HL-17648-04 0033 Study of ischemic heart disease - Data management--Electrocardiographic analysis system
** P50HL-17648-04 0034 Study of ischemic heart disease - Data management--Hemodynamic data
P50HL-17655-04 0011 Study of ischemic heart disease - Core facility--Cardiovascular nuclear medicine (human, dog)
P50HL-17669-04 0009 Ischemic heart disease center (SCDR) - Infarct volume--99Tc stannous pyrophosphate myocardial scintigrams (dogs, human)
P50HL-17670-04 0014 Study of ischemic heart disease - Real time ultrasound imaging in ischemic heart disease (human, dog)
P50HL-17682-04 0009 Study of ischemic heart disease - Computer core unit
P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
R01HL-17739-04 Acute myocardial infarct scintigraphy (human, dogs, rats)
R01HL-17931-04 Normalized body surface potential maps (children)
P01HL-18208-04 0002 Center for the study of blood cell rheology - Holography of RBC shape (human)
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
R01HL-19768-02 Recording and analysis of low levels cardiac signals (human, dogs)
** R23HL-21253-01 Anatomical models in computer-aided image analysis
R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies--Ischemia and infarction
** R01HL-22118-02 Microcirculation in patients with diabetes mellitus
R01HL-22604-01 Non-invasive system for arteriosclerosis studies (human)
** R01HL-22844-01 Phrenic nerve pacing--Noninvasive diaphragm analysis (human, dogs)
** R01HL-22893-01 Evaluating arterial disease by velocity-wave analysis (dogs, human)
N01HR-62901-04 Measure pulmonary function in infants and children (also dogs, rabbits)
N01HV-52966-01 Development and evaluation of an ultrasonic imaging system (swine)
** N01HV-72927-00 Systems for non-invasive detection of atherosclerotic lesions (human)
** N01HV-72928-04 Develop high resolution ultrasonic imaging techniques
N01HV-72930-02 Atherosclerosis assessment--Angiography and ultrasound (dogs, human)

OPTICS, IMAGING-VISUALIZATION (GENERAL)*
SEE ALSO CARDIOVASCULAR VISUALIZATION*
SEE ALSO CEREBROVASCULAR VISUALIZATION*
SEE ALSO GASTROINTESTINAL VISUALIZATION*
SEE ALSO HEART VISUALIZATION*
SEE ALSO KIDNEY VISUALIZATION*
SEE ALSO PHYSICAL PROPERTIES, SOUND, ULTRASONIC SCANNING*
SEE ALSO PHYSICAL PROPERTIES, SOUND, ULTRASONOGRAPHY
SEE ALSO RADIOGRAPHY*
SEE ALSO RESPIRATORY VISUALIZATION*
** R01HL-20274-02 Gated imaging with the MGH x-ray camera
R01HL-21706-02 Nuclear magnetic resonance and myocardial ischemia (rats)
R01HL-21707-01 Quantification of infarct size by emission tomography (human, dogs)
P60HL-23282-01 0001 Comprehensive hospital/community sickle cell center - Fetoscopy for intrauterine diagnosis of hemoglobinopathy (human, monkeys)

OPTICS, INTERFEROMETRY*
R01HL-12528-10 NMR relaxation of liquid crystal systems
P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
P01HL-18208-04 0002 Center for the study of blood cell rheology - Holography of RBC shape (human)

OPTICS, LASERS*
SEE ALSO CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, LASER*
SEE ALSO OPTICS, PHOTOGRAPHY, HOLOGRAPHY*
SEE ALSO OPTICS, PHOTOGRAPHY, HOLOGRAPHY, ACOUSTIC*
** R01HL-15740-06 In vitro studies on heart cell function (rats)
P01HL-16683-04 0003 Function and growth of cardiac and skeletal muscle - Movements of S-1 moieties in muscle fibers
P01HL-17421-05 0007 Regulation and exchange in the microcirculation - Core facilities--Fluorometric measurement methods for microcirculation
R01HL-18676-03 Myocardial sarcomere mechanics (rat)
R01HL-18725-03 Light-scattering studies of the sickling process (human)
P01HL-20552-02 0003 The development and regression of cardiac hypertrophy - Muscle mechanics of the hypertrophied left ventricle (rats)
** P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)
R01HL-22223-01 The cardio-pulmonary junction (dogs, models)

OPTICS, LIGHT EMISSION, FLUORESCENCE*
SEE ALSO DYES, FLUORESCENT DYES AND PROBES
SEE ALSO RADIOFLUORESCENT PROBES
R01HL-17702-04 Electro-optical dyes as probes of heart excitability
** P01HL-20984-02 0002 Cellular mechanisms in cardiac hypertrophy - Thermodynamic, fluorescence, chemical modification of hypertrophied heart myosin

OPTICS, LIGHT SCATTERING*
P01HL-17421-05 0007 Regulation and exchange in the microcirculation - Core facilities--Fluorometric measurement methods for microcirculation
R01HL-18256-01 Optical properties of platelets and erythrocytes (rabbits, dogs, human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-18725-03 Light-scattering studies of the sickling process (human)
R01HL-19973-01 Non-invasive sickled cell monitor development (human)
R01HL-20192-02 Ciliary activity of the lung studied by laser scattering
R01HL-21182-02 Active tension and shortening in cardiac hypertrophy (rabbits)
** P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)

OPTICS, MICROSCOPY (GENERAL)*

P01HL-17421-05 0006 Regulation and exchange in the microcirculation - Core facilities--Optical instrumentation facility
** P50HL-19155-02 0008 Pathophysiology of pulmonary edema - Core microscopy laboratory
** P50HL-19156-02 0006 Pulmonary SCOR--Chronic diseases of airways - Core microscopy laboratory
** P50HL-19185-02 0012 Pulmonary SCOR--Neonatal respiratory distress syndromes - Core microscopy lab
R01HL-20132-03 Histogenesis and biochemistry of embryonic lung (birds)
** P01HL-20948-02 9002 Molecular basis of cholesterol metabolism - Microscopy core laboratory
** P01HL-20993-02 0011 Population dynamics of arterial cells in atherogenesis - Light and electron microscopy laboratories--Core

OPTICS, MICROSCOPY, ELECTRON*

SEE ALSO OPTICS, MICROSCOPY, IMMUNE ELECTRON*
SEE ALSO TEMPERATURE, FREEZE-ETCHING*
R01HL-01803-23 0005 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic and dietary synergy in the pathogenesis of atherosclerosis (rabbits)
R01HL-01803-23 0010 Arteriosclerosis, glomerulonephritis, rheumatic fever - Atherosclerosis induction--Graft rejection and hypercholesterolemia (rabbits)
** P01HL-06285-18 0214 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function-EM of macromolecules
** P01HL-06664-17 0041 Cardiopulmonary function in remediable vascular disease - Core facility for quantitative microscopy
P01HL-06835-17 0039 Cardiovascular disease - Reversibility of vascular changes in renal hypertension (rats)
R01HL-07652-14 Destruction of red blood cells in hemolytic anemias (human, guinea pigs)
** P01HL-08682-15 0011 Regulation of the cardiovascular system - Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels)
** P01HL-08805-15 0042 Regulation of ventilation and pulmonary circulation - Electron microscope core research laboratory
R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
** P01HL-11414-11 0036 Thrombosis and atherosclerosis program - Electron microscopy core facility
R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
R01HL-11901-12 0001 Effects of metabolic surgery on the hyperlipidemias - Partial ileal bypass (human)
P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
** P50HL-14164-07 0043 A/S SCOR--Comparative and experimental atherosclerosis - Electron microscopy resource laboratory
** P50HL-14217-08 0050 Specialized center of research in thrombosis - Electron microscopy section (dogs)
P50HL-14230-07 0096 A/S SCOR--Lipids, atherosclerosis and thrombosis - Ultrastructural studies of endothelial cells (human)
P50HL-15062-07 0021 Study of lipoproteins, artery wall, and atherosclerosis - Core laboratories
R01HL-15740-06 In vitro studies on heart cell function (rats)
** P01HL-15835-06 0006 Study of muscles related to heart disease - Ultrastructural and chemical studies of muscle (animals)
** P01HL-15835-06 0019 Study of muscles related to heart disease - Vascular smooth muscle--Electron microscopy, excitation contraction (animal)
** P01HL-15835-06 0027 Study of muscles related to heart disease - Core II--Intermediate voltage EM of muscle
P60HL-16005-05 0015 Comprehensive sickle cell center - Molecular basis for the sickling phenomenon
** P01HL-16117-05 0001 Ion movements and membranes in cardiovascular control - Developmental studies of contractile cell junctions (rats, rabbits, elasmobranch)
R01HL-16375-04 Investigation of hemoglobin S properties (human)
** P01HL-16607-05 0007 Calcium ion and control of cardiovascular function Ultrastructure and conformation in sarcoplasmic reticulum (rabbits)
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
** P01HL-16769-05 0009 Pathobiologic and host defense reactions in the lung Electron microscopy and tissue culture core laboratory
** P01HL-16851-04 0011 Human red cell membrane in health and disease - Ultrastructure laboratory--Core facility
** R01HL-17376-04 Analysis of Z bands in heart by optical diffraction (mammals)
P01HL-17419-04 0007 Studies on mechanisms of hemostasis - Structural analysis of ordered forms of fibrinogen (human, cattle)
** P01HL-17812-04 0005 Thrombosis and plasma proteins - In vitro systems of normal platelets, white cells, sera (human)
** P01HL-17813-04 0002 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Ultrastructural abnormalities (human)
P01HL-18208-04 0004 Center for the study of blood cell rheology - Splenic microcirculation (rats, mice)
** P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
R01HL-18631-03 Ultrastructural correlates of myocardial ischemia (rats, swine)
** R01HL-18831-03 Microscopy of spontaneously hypertensive arterial lesion (rats)
R01HL-19009-03 Morphometric analysis of the sinoatrial node (ferret)
P50HL-19171-02 0008 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Electron microscopy, radioautography, histochemistry
R01HL-19316-03 Study of glomerular permeability (fish, turtle, frog, chordates, crustacea)
P01HL-19717-02 0024 Response of the lung to injury - Formation of lung alveoli (rats)
R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
** P01HL-20592-02 0006 Cell biology of cardiac and skeletal muscle - Permeability and ultrastructure of cardiac nexuses (rabbits, cattle, rats)
** P01HL-20993-02 0011 Population dynamics of arterial cells in atherogenesis - Light and electron microscopy laboratories--Core
P01HL-20994-02 9002 Dynamics of neutrophil elastase in the lung - Ultrastructural core
P01HL-21016-02 0001 Sickle cell anemia and other hemoglobinopathies - Supramolecular models of Hb S--Mutational and EM approach
** P01HL-21016-02 0018 Sickle cell anemia and other hemoglobinopathies - Scanning and transmission electron microscopy
** R01HL-21038-01 Electrically induced cardiac EM-histochemical changes (animals)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
** R01HL-23161-01 0004 Biology of myocardial ischemia - Structure of myofibrils and membranes in early ischemia (dogs, rabbit, rodents)
R01HL-24021-02 Erythocyte membrane sulfhydrls and Rh activity (human)

OPTICS, MICROSCOPY, ELECTRON SCANNING*

R01HL-09125-14 Ultrastructural cytochemistry (human, chick)
P01HL-11414-11 0036 Thrombosis and atherosclerosis program - Electron microscopy core facility
P50HL-14217-08 0050 Specialized center of research in thrombosis - Electron microscopy section (dogs)
P01HL-16748-05 0001 Cellular and immunological basis of pulmonary diseases - Mechanisms of alveolar macrophage function and dysfunction (human, rabbits)
P01HL-16769-05 0009 Pathobiologic and host defense reactions in the lung - Electron microscopy and tissue culture core laboratory
** P01HL-16851-04 0011 Human red cell membrane in health and disease - Ultrastructure laboratory--Core facility
R01HL-18798-04 0002 Nervous and ionic factors in sudden cardiac death - Electron microprobe, ultrastructure analysis of ischemic myocardium (dog, rabbit)
P50HL-19171-02 0009 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Scanning electron microscopy, freeze-fracture methods
** P01HL-21016-02 0018 Sickle cell anemia and other hemoglobinopathies - Scanning and transmission electron microscopy
P01HL-22602-01 9001 Pathophysiology of the endothelium - Morphology core

OPTICS, MICROSCOPY, FLUORESCENCE*

R01HL-10980-11 Ultrastructural renal pathology (human, rats)

OPTICS, MICROSCOPY, IMMUNE ELECTRON*

** P01HL-16851-04 0011 Human red cell membrane in health and disease - Ultrastructure laboratory--Core facility

OPTICS, MICROSCOPY, ULTRASONIC*

** R01HL-22233-01 Characterization of bio-materials by elastic property

OPTICS, PHOTOGRAPHY*

SEE ALSO EDUCATION, AUDIOVISUAL AND OTHER TRAINING AIDS
SEE ALSO ELECTRICAL MEASUREMENTS, POLAROGRAPHY*
SEE ALSO EYE DISORDERS DIAGNOSIS, RETINOGRAPHY*
SEE ALSO RADIOGRAPHY*
R01HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin
P01HL-17421-05 0006 Regulation and exchange in the microcirculation - Core facilities--Optical instrumentation facility

OPTICS, PHOTOGRAPHY, CINEMATOGRAPHY*

R01HL-19975-02 Laryngeal biomechanics in pulmonary therapy (primates)

OPTICS, PHOTOGRAPHY, CINEMICROGRAPHY*

P50HL-14212-07 0016 Correlated studies of pulmonary fibrosis - Role of pulmonary alveolar macrophages in fibrosis (human, rabbit)

OPTICS, PHOTOGRAPHY, HOLOGRAPHY*

** P01HL-18208-04 0002 Center for the study of blood cell rheology - Holography of RBC shape (human)
** P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)

OPTICS, PHOTOGRAPHY, HOLOGRAPHY, ACOUSTIC*

SEE ALSO PHYSICAL PROPERTIES, SOUND, ULTRASONOGRAPHY
R01HL-12494-10 Continuum mechanics in biophysics (human, animals)

OPTICS, PHOTOGRAPHY, STEREOPHOTOGRAPHY*

** R01HL-15888-05 Comparative stereology of the myocardium (birds, mammals)

OPTICS, PHOTOMICROGRAPHY*

R01HL-11152-12 Vascular physiology (human, cats, dogs)

ORAL ADMINISTRATION

SEE DOSAGE AND ROUTE, ROUTE OF ADMINISTRATION

ORAL AIRFLOW MEASUREMENT

SEE RESPIRATORY DISORDERS DIAGNOSIS, RESPIRATORY AIRFLOW MEASUREMENTS*

ORAL FLORA

SEE MICROBIAL ORAL FLORA

ORAL MICROBES

SEE MICROBIAL ORAL FLORA

ORAL-PHARYNGEAL (REGION)

** P50HL-14214-07 0027 Newborn lung center for hyaline membrane disease - Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep)
R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)

ORAL-PHARYNGEAL, NASOPHARYNX

** P01HL-10436-13 0016 A multidisciplinary study of congenital heart disease - Genetic studies of congenital heart disease (human)

ORAL-PHARYNGEAL, PALATE

R01HL-21257-02 Breathing in sleep--Airway control and blood gases (cats)

ORAL-PHARYNGEAL, PHARYNX

SEE ALSO ORAL-PHARYNGEAL, NASOPHARYNX
P50HL-14218-07 0005 Pulmonary SCOR--Newborn lung center - Prevention of infection in infants with respiratory distress (human)
R01HL-21257-02 Breathing in sleep--Airway control and blood gases (cats)

ORAL-PHARYNGEAL, SALIVA

** R01HL-14148-07 0007 The regional circulations - Salivary composition in hypertension (human)
N01HR-72920-01 Identify and quantify cystic fibrosis factors (human)

ORAL-PHARYNGEAL, SALIVARY GLANDS

R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)

ORAL-PHARYNGEAL, SALIVARY GLANDS, SUBMANDIBULAR

SEE ALSO GROWTH FACTORS (INCL. ANABOLICS), EPIDERMAL GROWTH FACTOR
R01HL-15839-05 Physiological role of isorenin and kallikrein (animals)
R01HL-18019-04 The endocrine kidney in hypertension (mice)

ORAL-PHARYNGEAL, SALIVATION

R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)

ORAL SURGERY

P60HL-17292-04 0029 Vermont Lung Center - Computer-assisted pre-operative evaluation (human)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

ORBITAL GYRI
SEE BRAIN, CEREBRUM, DRBITAL GYRI

ORGAN CULTURE
SEE TISSUE (CELL) CULTURE, ORGAN CULTURE

ORGAN PROSTHETIC
SEE PROSTHETIC ORGANS AND TISSUES

ORGAN TRANSPLANTATION
SEE TISSUE CDMPATIBILITY-TRANSPLANT, TRANSPLANTATION

ORGANELLES
SEE CELL COMPONENTS, ORGANELLES

ORGANIC ACIDS
SEE ACIOS-BASES, ACIOS ORGANIC (GENERAL)

ORGANIC COMPOUNDS (GENERAL)
SEE CHEMICALS (GENERAL), ORGANIC COMPDUNDS (GENERAL)

ORGANIC SYNTHESIS
SEE CHEMICAL SYNTHESIS AND PRDDUCTION

ORGANIZATIONS, HEALTH SCIENCES
SEE HEALTH AND SCIENTIFIC DRGANIZATIDNS

ORGANS
SEE TISSUE, ORGANS (SEE ALSD SPECIFIC ORGANS)

ORIENTATION, BODY POSITION
SEE SENSORY-PERCEPTUAL PROCESSES, PROPRIOCEPTIDN

ORIENTATION
SEE ENVIRONMENT, DRIENTATION

ORINASE
SEE SULFONYLUREA, TOLBUTAMIOE

ORNITHINE DECARBOXYLASE
SEE OECARBOXYLASES, ORNITHINE DECARBOXYLASE

ORNITHOSIS VIRUS
SEE CHLAMYDIA, PSITTACOSIS AGENT

OROTIC ACID
SEE PYRIMIDINES, ORDTIC ACID

ORTHOPEDICS
SEE SKELETAL DISORDERS, ORTHDPEOICS

ORTHOPHENOLASE
SEE OXYGENASES, MONOPHENOL MONODXYGENASE

ORTHOSTATIC HYPOTENSION
SEE CARDIOVASCULAR OISORDERS, HYPOTENSIDN PDSTURAL

OSCILLATORY BLOOD FLOW
SEE CAROIOVASCULAR FUNCTION, BLOOD FLOW OSCILLATDRY

OSCILLOGRAPHY
SEE ELECTRICAL MEASUREMENTS, DSCILLOGRAPHY

OSMORECEPTORS
SEE SENSE DRGANS, DSMORECEPTORS

OSMOSIS
SEE BIOLDGICAL TRANSPORT, PASSIVE TRANSPDRT, DSMOSIS

OSMOTIC FRAGILITY (BLOOD)
SEE BLOOD (HEMATDLOGIC) TESTS, DSMDTIC FRAGILITY*

OSMOTIC PRESSURE, BLOOD
SEE BLDOD OSMOTIC PRESSURE

OSMOTIC PRESSURE, BODY FLUIDS
SEE BODY FLUID BALANCE, DSMDTIC PRESSURE

OSMOTIC PRESSURE, CELL FLUIDS
SEE CELL FLUIDS, OSMDTIC PRESSURE

OSMOTIC PRESSURE OF OTHER FLUIDS
SEE PHYSICAL PRDPERTIES, FLUID STATE, DSMOTIC PRESSURE

OSTEITIS DEFORMANS
SEE SKELETAL DISORDERS, OSTEITIS DEFDRMANS

OSTEITIS TUBERCULOSA MULTIPLEX CYSTOIDES
SEE NEDPLASMS RELATED INTEREST, SARCDIOOSIS

OSTEOGENIC SARCOMA
SEE NEDPLASMS DF SKELETAL SYSTEM, OSTEOGENIC SARCOMA

OSTEOMYELITIS
SEE SKELETAL DISDRDERS, OSTEOMYELITIS

OSTEOPOROSIS
SEE SKELETAL DISDRDERS, BDNE METABOLISM, OSTEDPORDSIS

OTITIS MEDIA
SEE EAR DISDRDERS, MIDDLE EAR DISDRDERS, OTITIS MEDIA

OUABAIN
SEE CARDIAC GLYCDSIOES, OUABAIN

OUTFLOW DISORDERS, HEART
SEE HEART OISORDERS, OUTPUT ABNORMALITIES

OUTPATIENT FACILITIES (GENERAL)
SEE HEALTH CARE FACILITIES, DUTPATIENT FACILITIES

OUTPATIENT FACILITIES (HOSPITAL)
SEE HOSPITALS, OUTPATIENT FACILITIES

OUTPUT ABNORMALITIES
SEE HEART DISDRDERS, OUTPUT ABNDRMALITIES

OUTREACH
SEE HEALTH CARE SERVICES, CASE FINOING ANO OUTREACH

OVALOCYTOSIS HEREDITARY
SEE BLOOD AND RE OISDROERS, ANEMIA HEMDLYTIC CDNGENITAL, ELLIPTOCYTOSIS HEREOITARY

OVARY
SEE REPRDDUCTIVE SYSTEM FEMALE, OVARY

OVERDOSE OF DRUGS
SEE DRUGS ABUSE, OVERDDSE

OVIS
SEE MAMMALS, ARTIODACTYLA, SHEEP*

OVOTRANSFERRIN
SEE ALBUMINS, CDNALBUMIN

OWL MONKEYS
SEE MAMMALS, PRIMATES, MDNKEYS AND APES (ANTHRDPDIDS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*

OXALACETATE
SEE OICARBDXYLIC ACIDS, DXALACETATE

OXALOACETATE TRANSACETASE
SEE OXO-ACID-LYASES, CITRATE (SI) SYNTHASE

OXAMATES
R01HL-20116-01 Heart lactate dehydrogenase--The complex with NADH (pig)

OXANDROLONE
SEE ANDRDSTANE SERIES, OXANORDLONE

OXAZINES, MORPHOLINES, DOXAPRAM
R23HL-20968-D2 Respiratory failure--Control and muscle dysfunction (human)

OXAZOLES
** R01HL-20579-02 Synthesis of therapeutically important alkaloids

OXIDANTS
P01HL-16833-D4 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)
P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
** R23HL-22621-01 Blood cell-mediated pulmonary (human)

OXIDANTS, ANTIOXIDANTS
R01HL-06481-15 Lipid metabolism (human, rats)
R01HL-11897-11 Pathogenesis of experimental atherosclerosis (rabbits, guinea pigs)
R01HL-14663-07 Pulmonary oxygen toxicity in newborn lung (human, mice)
R01HL-16330-06 Aging-tissue injury and repair (rats)
R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)
R01HL-19633-D2 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
R01HL-20352-02 Defenses of lung cells against oxygen toxicity (human, animals)
R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)

OXIDASE INHIBITORS
SEE ENZYME INHIBITORS, DXIDOREDUCTASE INHIBITORS

OXIDATION
SEE DXIOATION-REDUCTIDN, DXIDATIDN

OXIDATION-REDUCTION
SEE ALSO CHEMICAL TRANSFER, ELECTRDN TRANSPDRT
SEE ALSO CHEMICAL TRANSFER, HYDRDGEN TRANSPDRT
SEE ALSD RESPIRATION INTERNAL
SEE ALSO RESPIRATDRY GASES
PD1HL-D7896-15 0019 Environmental biomedical research program - Hyperoxic myopia (human)
P01HL-07896-15 0051 Environmental biomedical research program - Relationships of retinal circulation to disease (rabbits)
R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
R01HL-12647-08 Inactivation of norepinephrine in vascular tissue
RD1HL-13581-11 Reactions of oxygen with heme proteins
R01HL-13652-D8 Metal sites in metalloproteins (mushroom)
R01HL-14461-08 Cardiac metabolism in heart failure (rats)
R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
P60HL-15157-07 0012 Comprehensive center for sickle cell disease - Sickling and intracellular pH (human)
** P50HL-17670-04 0022 Study of ischemic heart disease - Myocardial metabolism in hypoxia and recover (rabbit, toad, dog)
P01HL-18708-03 0010 Dxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
P01HL-19737-02 0008 Cellular and molecular aspects of respiratory physiology - Kinetics of movement of acid metabolites from cell to capillary blood (dogs)
R01HL-20141-02 Biochemical approaches to management of iron overload (human, sheep, dogs)
R01HL-22315-01 Intraoperative cardiac oxygen supply-demand (dogs, rabbits, rats)
R01HL-22780-01 Factors modifying the reaction properties of HgS (human)

OXIDATION-REDUCTION, AUTO-OXIDATION
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
** R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
R01HL-16927-05 Structure and function of normal and abnormal hemoglobin (human)
** P01HL-20993-02 0008 Population dynamics of arterial cells in atherogenesis - Angiotoxicity of cholesterol oxidation in atherogenesis (rabbits)

OXIDATION-REDUCTION, OXIDATION
SEE ALSD RESPIRATORY GASES, OXYGENATION
R01HL-07379-13 Structure and function of fibrinogen (human)
P01HL-08214-15 0006 Chemical and biological properties of lipids - Analysis and properties of lipids
P01HL-08899-14 0D55 Tolerance to respiratory gases in health and disease - Oxygen effects on organ functions--Extension of tolerance
** PD1HL-08899-14 0D62 Tolerance to respiratory gases in health and disease - Influence of oxygen at high pressure upon oxidation (rats)
R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
RD1HL-13028-09 Regulation of myocardial fatty acid metabolism (rats)
RD1HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
RD1HL-13412-17 Synthetic oxygen carriers
R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)
** P5DHL-15061-D7 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
RD1HL-15622-05 Computer simulation in cardiology (rats, dogs)
R01HL-17896-D3 Oehydropeptide renin substrates
R01HL-18089-04 Fatty acid metabolism in heart and its regulation (swine, rats)
R01HL-18163-04 Red cell membrane effects due to oxidizing agents
R01HL-19491-03 Mechanism of iron storage and mobilization by ferritin (horse)
P01HL-19737-02 0001 Cellular and molecular aspects of respiratory physiology - Fatty acid metabolism in type II alveolar cells (rats)
R01HL-20125-02 Cyclic nucleotides and alveolar macrophage activation (rabbits)
R01HL-2D909-02 Clofibrate-enhanced lipid oxidation by peroxisomes (rats)
R01HL-20996-02 Structural and reactivity of iron and cobalt complexes
R01HL-22951-D1 Studies on the affect of vitamin E on platelets (human, rats)

OXIDATION-REDUCTION, REDUCTION
P5DHL-15061-07 0012 Response of lung to injury - Hyperbaric oxygen, carbon monoxide, and ozone or peroxide toxicity (rats)

OXIDATION-REDUCTION ENERGIES
SEE BIDLDGICAL TRANSPORT, TRANSPORT ENERGETICS

OXIDATIVE PHOSPHORYLATION
SEE ALSO PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, ATP
R01HL-09364-14 Ion transport by heart mitochondria (cattle, rat, rabbit)
R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
P50HL-14138-05 DD15 Center for research on atherosclerosis - Arterial wall--Intermediary metabolism, enzyme activity and bioenergetics
P50HL-14212-07 0D13 Correlated studies of pulmonary fibrosis - Mechanism of beryllium pathogenicity in the lung (human, rabbit, guinea pig)
P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
** R01HL-15104-07 A mechanism for oxidative phosphorylation
R01HL-15622-05 Computer simulation in cardiology (rats, dogs)
P01HL-15835-06 0011 Study of muscles related to heart disease - Energetics and mechanism of muscle contraction (frogs, rabbits)
** P01HL-16251-06 0009 Membrane-bound enzymes in heart and other tissues NAOH dehydrogenase end site I of oxidative phosphorylation (yeast)
** R01HL-16686-04 Properties of cytochrome oxidase (cattle, bacteria)
P60HL-17269-04 0018 National heart and blood vessel research and demonstration center - Mitochondria and energetics (rabbits, dogs)
P50HL-17670-04 0022 Study of ischemic heart disease - Myocardial metabolism in hypoxia and recover (rabbit, toad, dog)
P50HL-17670-04 0023 Study of ischemic heart disease - Energy metabolism in acute myocardial ischemic injury (dogs)
P50HL-17682-04 0018 Study of ischemic heart disease - Biochemistry of ischemia--Heart cell and organ culture (mice, rats, cattle)
** R01HL-18038-03 Structure and function of heart mitochondria (cattle)
R01HL-18206-04 Regulation of metabolism in oxygen deficient hearts (rats)
P50HL-19190-02 0007 Pulmonary SCOR--Pathophysiology, management of IROS - Asphyxia--Cerebral metabolism (dog, rat)
R01HL-19392-03 Spectroscopic studies of respiratory metalloproteins
R01HL-20143-02 Hypothermic circulatory arrest--Cerebral vascular change (dogs)
R01HL-20408-03 Hyperlipidemia in diabetics during muscular training (human)
R01HL-20484-03 Effects of diabetes on cardiac function and metabolism (rats)
R01HL-20544-02 Integrated regulation of myocardial energy metabolism (rats, guinea pigs)
R01HL-21209-02 Alterations of metabolism in ischemic myocardium (swine)
R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)
R01HL-23161-01 0001 Biology of myocardial ischemia - Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)
R01HL-23166-01 Pathology of mitochondria in ischemic myocardium (rats, cattle)
R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)

OXIDES (SEE ALSO SPECIFICS)

SEE ALSO CARBON MONOXIDE
SEE ALSO ETHERS
SEE ALSO IRON OXIDES
SEE ALSO NITROGEN DIOXIDE
SEE ALSO NITROGEN OXIDES
SEE ALSO PEROXIDES
SEE ALSO RESPIRATORY GASES
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)

OXIDES, EPOXIDES

R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
R01HL-14847-07 Mechanism of action of vitamin K and anticoagulants (rats)
R01HL-16471-05 Cardioactive alloyohimbines and related indole alkaloids
P60HL-17269-04 0016 National heart and blood vessel research and demonstration center - New analytical methodology for atherosclerosis studies
R01HL-20577-03 The mechanism of action of vitamin K
R01HL-23115-01 Regulation of active sodium transport (frogs, rats)

OXIDOREDUCTASE INHIBITORS

SEE ENZYME INHIBITORS, OXIOOREOUCTASE INHIBITORS

OXIDOREDUCTASES

SEE ALSO FLAVOPROTEIN ENZYMES
SEE ALSO METABOLIC DISORDERS INBORN, ANGIONEUROTIC EDEMA (HEREDITARY)
SEE ALSO METALLOPROTEINS, CERULOPLASMIN
SEE ALSO METALLOPROTEINS, CYTOCUPREINS
SEE ALSO NAD LINKED ENZYMES
SEE ALSO NADP LINKED ENZYMES
SEE ALSO OXYGENASES
SEE ALSO PEROXIDASES
** P01HL-07896-15 0049 Environmental biomedical research program - Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
** R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
R01HL-13645-11 Tryptophan-induced pulmonary emphysema (cattle, goats, rabbits)
P01HL-16118-06 0003 Study of emphyseme Degredation of collagen and elastin (human, hamsters, mice)
R01HL-19083-02 Rapid specific micro measurement of blood cholesterol
** P01HL-19717-02 0004 Response of the lung to injury - Regulatory and physical-chemical properties of lung lysyl oxidase (animals)
R01HL-20577-03 The mechanism of action of vitamin K
R01HL-21303-02 Collagen synthesis by cultured human vascular cells

OXIDOREDUCTASES, ACYL-COA DEHYDROGENASE

R01HL-18089-04 Fatty acid metabolism in heart and its regulation (swine, rats)
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)

OXIDOREDUCTASES, AMINE OXIDASE (FLAVIN CONTAINING)

SEE ALSO ENZYME INHIBITORS, MONOAMINE OXIDASE INHIBITORS
R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
** R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)

OXIDOREDUCTASES, AMINE OXIDASE (PYRIDOXAL-CONTAINING)

P50HL-19157-02 0009 Studies in cystic fibrosis and bronchiolitis - Polyamine metabolism in cystic fibrosis (human, rat)

OXIDOREDUCTASES, AMINO ACID OXIDASES

** P01HL-16251-06 0010 Membrane-bound enzymes in heart and other tissues - Reversible activation of L-amino acid oxidase (snakes)

OXIDOREDUCTASES, CYTOCHROME B5 REDUCTASES

P01HL-14388-07 0175 Regulation of the circulation in pathological states - Functional studies of selected proteins from cardiac muscle

OXIDOREDUCTASES, CYTOCHROME OXIDASES

P01HL-07896-15 0039 Environmental biomedical research program - Development of resistance to lethal effects of oxygen (rats)
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
P50HL-15061-07 0012 Response of lung to injury - Hyperbaric oxygen, carbon monoxide, and ozone or peroxide toxicity (rats)
P01HL-15835-06 0013 Study of muscles related to heart disease - Cardiac bioenergetics (rats)
** R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
** R01HL-16686-04 Properties of cytochrome oxidase (cattle, bacteria)
** R01HL-17559-03 Structural elucidation of heart cytochrome-C oxidase
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
M P01HL-18708-03 Oxygen, energy and contractility in cardiac tissue
** P01HL-18708-03 0003 Oxygen, energy and contractility in cardiac tissue - Structural-functional studies on cytochrome c oxidase
P01HL-18708-03 0009 Oxygen, energy and contractility in cardiac tissue - Regulation of oxygen utilization of cardiac tissue (rats, rabbits)
P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-19392-03 Spectroscopic studies of respiratory metalloproteins
R01HL-19425-03 Cardiac function in hypertrophy (dog)
** P01HL-20592-02 0011 Cell biology of cardiac and skeletal muscle - Myosin and cytochrome oxidase messenger RNAs (chicken)
R01HL-22050-01 Organization of succinic oxidase in heart
R01HL-22174-01 Assembly of membranes in heart and yeast mitochondria
R01HL-22333-01 Cellular basis of small airways function (rats)

OXIDOREDUCTASES, DEHYDROGENASES

R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
R01HL-14456-07 Lung metabolism--Enzymes in the pulmonary circulation (human, animals)
P01HL-17382-05 0003 Chemical mediators of acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
R01HL-18259-03 Controlled intratissue release of prostaglandins
R01HL-20878-02 Cellular aspects of lung injury (rats, rabbits)
R01HL-21912-01 Biosynthesis of lipoic acid and atherosclerosis (birds, chick embryos)

OXIDOREDUCTASES, GLUCOSE OXIDASE

R01HL-17967-04 Limiting factors in oxygen uptake in the lung

OXIDOREDUCTASES, GLUCOSE-6-PHOSPHATE DEHYDROGENASE

SEE ALSO METABOLIC DISORDERS INBORN, GLUCOSE 6-PHOSPHATE DEHYDROGENASE DEFICIENCY
** P01HL-03174 23 0006 Mechanisms of acute vascular reaction to injury - Atherosclerotic plaque studies using moseic analysis (human)
** R01HL-12138-08 Nutritional regulation of enzyme activity (rats, human)
R01HL-15125-07 Moleculer pathology of genetic disorders in man
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
** R01HL-18502-03 Enzymatic regulation of platelet function (human)
P01HL-21016-02 0011 Sickle cell anemia and other hemoglobinopathies - Metabolic effects of anti-sickling agents (hamsters)

OXIDOREDUCTASES, GLUTATHIONE REDUCTASE

P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
** R01HL-18502-03 Enzymatic regulation of platelet function (human)
P01HL-21016-02 0011 Sickle cell anemia and other hemoglobinopathies - Metabolic effects of anti-sickling agents (hamsters)

OXIDOREDUCTASES, GLYCERALDEHYDE PHOSPHATE DEHYDROGENASE

R01HL-18206-04 Regulation of metabolism in oxygen deficient hearts (rats)
R01HL-19933-02 Membrane and red cell dysfunction in hemolytic anemia (human)

OXIDOREDUCTASES, GLYCEROPHOSPHATE DEHYDROGENASE

P01HL-07896-15 0049 Environmental biomedical research program - Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
** R01HL-18567-03 A routine diagnostic test for minimal heart damage (human, rat)

OXIDOREDUCTASES, HMG-COENZYME A REDUCTASE

** R01HL-05360-19 Cholesterol biosynthesis and its control in liver (rats)
P01HL-06285-18 0207 Cardiovascular-respiratory physiology and biochemistry - Feedback control of cholesterol synthesis in non-hepatic tissues (animals)
R01HL-06481-15 Lipid metabolism (human, rats)
R01HL-08634-15 Enzymic cholesterol synthesis (human, rats, protozoa, yeast)
R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
R01HL-14781-08 Lipid deposition in mammalian cells (mice)
R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
** R01HL-16294-04 Effectors of cholesterol synthesis (rats)
** R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
** R01HL-16796-05 Cholesterol regulation by HMG-CoA reductase (rats, human)
P60HL-17269-04 0045 National heart and blood vessel research and demonstration center - Regulation of lipogenesis in hyperlipoproteinemia (human, tissue culture)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
** R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
** R01HL-18094-04 Regulation of cholesterol biosynthesis (rats)
** R01HL-18219-04 Regulation of cholesterol metabolism (rats)
R01HL-18878-03 Familial hypercholesteremia--Studies of fibroblasts (human)
** R01HL-19063-03 Cholesterol and lipoprotein metabolism (rat hepatocytes)
** R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
R01HL-20428-03 The juvenile diabetic heart (human)
** R01HL-20807-02 Detection of familial hypercholesterolemia (human)
P01HL-20948-02 0001 Molecular basis of cholesterol metabolism - Biochemical and ultrastructural characterization of LDL in human fibroblasts
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
P01HL-20948-02 0003 Molecular basis of cholesterol metabolism - LDL pathway in vivo (human, rats, guinea pigs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-20993-02 0004 Population dynamics of arterial cells in atherogenesis - Modifications of cholesterol balance related to arterial cell divisions (swine)
R01HL-21246-02 Roles of cholesterol and its metabolic regulation (CHO cell mutants)
R01HL-22532-01 Inhibitors of cholesterol biosynthesis (rats, mice, yeast)
P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells

OXIDOREDUCTASES, BETA-HYDROXYBUTYRATE DEHYDROGENASE
R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions

OXIDOREDUCTASES, ISOCITRATE DEHYDROGENASE
R01HL-18143-03 Surgery and pulmonary tissue alterations (dogs, rats, human)

OXIDOREDUCTASES, LACTATE DEHYDROGENASE
SEE ALSD DXIODREDUCTASES, 0-LACTATE OEHYDRDGENASE
P01HL-06312-17 0053 Surgical cardiology - Enzyme pattern following cardiac surgery (human)
P01HL-12373-10 0001 Cardiopulmonary physiology and pathophysiology - Mechanics of myocardial contraction (dogs, rats, swine)
P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
P50HL-17670-04 0017 Study of ischemic heart disease - Core enzymology laboratory (human)
P50HL-17682-04 0010 Study of ischemic heart disease - Core clinical enzyme laboratory (human, mice, dogs, rats)
R01HL-18143-03 Surgery and pulmonary tissue alterations (dogs, rats, human)
** R01HL-20116-01 Heart lactate dehydrogenase--The complex with NAOH (pig)
R01HL-20352-02 Oefenses of lung cells against oxygen toxicity (human, animals)
** P01HL-20552-02 0010 The development and regression of cardiac hypertrophy - Energy metabolism in the hypertrophied heart animals
P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)

OXIDOREDUCTASES, D-LACTATE DEHYDROGENASE
P01HL-12157-11 0051 Functions and mechanisms of cell membrane ion transport - Electron transport in the red cell membrane (human, guinea pigs)

OXIDOREDUCTASES, MALATE DEHYDROGENASE
** R01HL-12585-10 Structural properties of malate dehydrogenase (swine)
** R01HL-13035-08 Heart mitochondrial malate dehydrogenase regulation
P50HL-17682-04 0010 Study of ischemic heart disease - Core clinical enzyme laboratory (human, mice, dogs, rats)

OXIDOREDUCTASES, MONOAMINE OXIDASE
SEE ALSD ENZYME INHIBITDRS, MDNDAMINE DXIDASE INHIBITDRS
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
P01HL-16251-06 0007 Membrane-bound enzymes in heart and other tissues - Flavins and flavoproteins
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
R01HL-20439-02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
** R23HL-21327-02 Molecular mechanisms of chemical myocardiopathies (rats)
** R01HL-22077-01 Vasoactive amine disposition in cultured endothelium (rabbits)
RD1HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)

OXIDOREDUCTASES, NAD(P)H DEHYDROGENASE (QUINONE)
RD1HL-12576-10 Bioenergetics apparatus in heart mitochondria
R01HL-22981-17 Membrane-associated functions in microorganisms (bacteria, protozoa)

OXIDOREDUCTASES, NADPH DEHYDROGENASE
** R01HL-13585-05 Heterogeneity of NADH methemoglobin reductase (human)
** P01HL-16251-06 D009 Membrane-bound enzymes in heart and other tissues - NADH dehydrogenase and site I of oxidative phosphorylation (yeast)

OXIDOREDUCTASES, NADPH2 CYTOCHROME C REDUCTASE
** R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
PD1HL-14388-07 0175 Regulation of the circulation in pathological states - Functional studies of selected proteins from cardiac muscle
R23HL-19605-01 Lipid requirement of the lung mono-oxygenase system (rabbits)

OXIDOREDUCTASES, OXOGLUTARATE DEHYDROGENASE
** P01HL-07896-15 0049 Environmental biomedical research program - Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
R01HL-20544-02 Integrated regulation of myocardial energy metabolism (rats, guinea pigs)

OXIDOREDUCTASES, PHOSPHOGLUCONATE DEHYDROGENASE
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems

OXIDOREDUCTASES, PROSTAGLANDIN SYNTHASE
P50HL-14153-07 0012 Johns Hopkins Lung Center--Chronic diseases of airways - Aspirin intolerance in reversible lung disease (human)
R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)
R01HL-19134-04 Angiotensin, prostaglandins, adrenergic interactions (rats, rabbits)
P50HL-19156-02 0005 Pulmonary SCDR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
R01HL-19218-03 Local regulation of coronary flow by prostaglandins (rabbits)
** R01HL-20794-02 Prostaglandin synthesis in human platelets (also in sheep, rabbit)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R23HL-22438-01 The etiology of genetic hypertension (rats)

OXIDOREDUCTASES, PYRUVATE DEHYDROGENASE
P01HL-08899-14 0055 Tolerance to respiratory gases in health and disease - Dxygen effects on organ functions--Extension of tolerance
R01HL-18143-03 Surgery and pulmonary tissue alterations (dogs, rats, human)

OXIDOREDUCTASES, PYRUVATE OXIDASE
** R01HL-16101-05 Protein-lipid interaction (bacteria, models)

OXIDOREDUCTASES, SUCCINATE:(ACCEPTOR) OXIDOREDUCTASE
** P01HL-07896-15 0049 Environmental biomedical research program - Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
R01HL-12576-10 Bioenergetics apparatus in heart mitochondria
** P01HL-16251-06 0002 Membrane-bound enzymes in heart and other tissues - Structural basis of regulation of cardiac succinate dehydrogenase
** P01HL-16251-06 0003 Membrane-bound enzymes in heart and other tissues - Regulation of cardiac succinate dehydrogenase (yeasts, mammals)
** P01HL-16251-06 0004 Membrane-bound enzymes in heart and other tissues - Biosynthesis and degradation of succinate dehydrogenase, histidyl (yeast, mammal)
** P01HL-16251-06 0008 Membrane-bound enzymes in heart and other tissues - Iron-sulfur centers and phospholipids modulation of succinate dehydrogenase
** R01HL-22050-01 Organization of succinic oxidase in heart

O2 OXIDOREDUCTASE
SEE DXYGENASES

OXIMETRY
SEE RESPIRATORY GAS ANALYZERS, DXIMETRY*

OXINS, PYRANS
R01HL-21367-D2 Polyether ionophores--Synthesis of X537A and analogs

OXO-ACID-LYASES, CITRATE (SI) SYNTHASE
RD1HL-18143-03 Surgery and pulmonary tissue alterations (dogs, rats, human)

OXOARYLS, LACTONES
SEE ALSD BENZO-ALPHA-PYRONES
R01HL-17896-03 Dehydropeptide renin substrates

OXOGLUTARATE DEHYDROGENASE
SEE OXIDDREDUCTASES, DXDGLUTARATE DEHYDRDGENASE

OXOLES, CHLORALOSE
R01HL-19256-03 Arterial baroreceptors in cardiovascular control (dogs)

OXOLES, FURANS
P01HL-08214-15 0048 Chemical and biological properties of lipids - Lipids in microorganisms and plants
R01HL-21367-D2 Polyether ionophores--Synthesis of X537A and analogs

OXYGEN
SEE RESPIRATDRY GASES, OXYGEN

OXYGEN ADMINISTRATION
SEE RESPIRATORY ASSIST AND DXYGEN AOMINISTRATION

OXYGEN CONSUMPTION
SEE RESPIRATORY GAS CONSUMPTIDN, OXYGEN CONSUMPTION

OXYGEN DEFICIENCY
SEE RESPIRATORY GAS LEVELS, HYPOXIA

OXYGEN INHALATION THERAPY
SEE RESPIRATORY ASSIST AND DXYGEN AOMINISTRATIDN, DXYGEN INHALATION THERAPY

OXYGEN POISONING
SEE RESPIRATDRY ASSIST AND OXYGEN ADMINISTRATION, HYPEROXIA

OXYGEN RADIOISOTOPES (15)
SEE RADIDISOTOPES, OXYGEN

OXYGEN TENSION
SEE RESPIRATORY GAS LEVELS, OXYGEN TENSIDN

OXYGEN TRANSPORT
SEE RESPIRATORY GAS TRANSPDRT, DXYGEN TRANSPORT

OXYGENASES
R01HL-13157-09 Molecular oxygen carriers--Synthesis, structure, bonding
P50HL-14147-08 0001 Specialized center of research in thrombosis - Role of aspirin, other anti-platelet agents in platelet function (rat, human)
R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
R01HL-21159-02 Pathophysiological effects of hypoxia (rats)
R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)

OXYGENASES, DOPAMINE (BETA)-MONOOXYGENASE
** P01HL-14388-07 0194 Regulation of the circulation in pathological states - Dopamine-beta-hydroxylase localization and release in hypertension
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
** R01HL-18095-04 Human dopamine-beta-hydroxylase (also cattle)
P50HL-18323-04 0041 SCOR hypertension center - Measurement of sympathetic response in hypertensive patients
P01HL-18974-03 0012 Experimental neurogenic hypertension program - Immunohistochemistry of central monoamine neurons (rats)
** R01HL-19251-03 An index of sympathetic activity in hypertension (rats)
R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)
P01HL-20581-01 0006 Vascular neuroeffector mechanisms in health and disease - Neuroeffector mechanism in arteries and veins in hypertension (human)
R01HL-21817-01 Catecholamines, blood pressure and circulation
R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)

OXYGENASES, HYDROXYLASES (GENERAL)
** P01HL-06835-17 0D50 Cardiovascular disease - 18-Hydroxylase block in the 17 alpha-hydroxylase deficiency syndrome (human)
R01HL-D7878-16 Metabolism of neutral sterols (rats, rabbits)
PD1HL-14414-07 D016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
R01HL-16364-D4 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
R01HL-16904-03 Regulation of smooth muscle cells in arteriosclerosis (rabbit aorta)
R23HL-19605-01 Lipid requirement of the lung mono-oxygenase system (rabbits)
R01HL-21303-D2 Collagen synthesis by cultured human vascular cells
R23HL-22383-01 Biosynthesis--Response to oxygen depletion (human, primates, rats)

OXYGENASES, HYDROXYLASES, ARYL HYDROCARBON HYDROXYLASE
PD1HL-D3174-23 DD11 Mechanisms of acute vascular reaction to injury - Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)
R01HL-21156-02 Antitrypsin and other causes of chronic lung disease

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

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OXYGENASES, LIPOXYGENASE
R01HL-19806-03 Chemotactic control of airway phagocytes (human, rabbits)

OXYGENASES, MIXED FUNCTION (GENERAL)
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
** P50HL-19170-02 0005 Harvard pulmonary SCOR--Chronic diseases of the airways - Pulmonary toxicology of plastics intermediates and pyrolysis products (animal)
** R23HL-19605-01 Lipid requirement of the lung mono-oxygenase system (rabbits)
** R01HL-19654-03 Biochemical-pharmacological evaluation of lung cells (rabbits)

OXYGENASES, MONOPHENOL MONOOXYGENASE
R01HL-13652-08 Metal sites in metalloproteins (mushroom)

OXYGENASES, STEROID MONOOXYGENASES (GENERAL)
R01HL-07878-16 Metabolism of neutral sterols (rats, rabbits)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)

OXYGENASES, TRYPTOPHAN 2,3-DIOXYGENASE
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
R23HL-22383-01 Biosynthesis--Response to oxygen depletion (human, primates, rats)

OXYGENASES, TRYPTOPHAN 5-MONOOXYGENASE
** P01HL-18974-03 0011 Experimental neurogenic hypertension program - Biochemistry and regulation of brain tryptophane hydroxylase (rats)
P01HL-18974-03 0012 Experimental neurogenic hypertension program - Immunohistochemistry of central monoamine neurons (rats)

OXYGENASES, TYROSINE 3-MONOOXYGENASE
P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
R01HL-18148-04 Adrenal catecholamine secretion
** P01HL-18974-03 0009 Experimental neurogenic hypertension program - Biochemistry of brain tyrosine hydroxylase (rats)
P01HL-18974-03 0012 Experimental neurogenic hypertension program - Immunohistochemistry of central monoamine neurons (rats)
R01HL-20604-03 Sympathectomy--Cardiovascular and molecular pharmacology (animals)
R01HL-20768-02 Mechanisms of circulatory regulation in heart failure (guinea pigs)
R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)

OXYGENATION
SEE RESPIRATORY GASES, OXYGENATION

OXYGENATORS, BLOOD
SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, BLOOD OXYGENATORS

OXYGENATORS, PUMP BLOOD
SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART MECHANICAL EXTRACORPOREAL

OXYGENATORS, RESPIRATORY
SEE RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION

OXYHEMOGLOBIN
SEE HEMOPROTEINS, HEMOGLOBIN, OXYHEMOGLOBIN

OXYPURINES
SEE PURINES, OXYPURINES

OXYTOCIN
SEE PITUITARY-DIENCEPHALON HORMONES, OXYTOCIN

OZONE
SEE GAS ELEMENTS, OZONE

P-113
SEE PEPTIDES, OLIGOPEPTIDES, SARALASIN

PACEMAKERS
SEE BRAIN STIMULATORS ELECTRONIC
SEE ELECTRONIC STIMULATORS (GENERAL)
SEE HEART, CONDUCTION SYSTEM, HEART PACEMAKERS
SEE NEUROMUSCULAR STIMULATORS (FOR NEUROMOTOR DISORDERS)

PAIN
SEE SENSORY-PERCEPTUAL PROCESSES, PAIN

PAIN RELIEVING AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, ANALGESICS

PALATE
SEE ORAL-PHARYNGEAL, PALATE

PALMITIC ACID
SEE FATTY ACIDS, PALMITIC ACID

N-PALMITOYLSPHINGOSINE
SEE SPHINGOLIPIDS, CERAMIDE

PAN
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON HUMAN), GREAT APES (PONGIDS), PAN (CHIMPANZEE)*

PAN AMERICAN HEALTH ORGANIZATION (WHO)
SEE HEALTH AND SCIENTIFIC ORGANIZATIONS, INTERNATIONAL, WHO

PANCREAS
R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
** R01HL-19977-02 Genesis of circulatory shock by pancreatic peptides (cats, dogs)

PANCREAS, PANCREATIC ENZYMES
SEE ALSO GASTROINTESTINAL HORMONES, PANCREOZYMIN-CHOLECYSTOKININ
SEE ALSO LIPASES, TRIACYLGLYCEROL LIPASE
SEE ALSO PROTEASES AND PEPTIDASES, CARBOXYPEPTIDASE
SEE ALSO PROTEASES AND PEPTIDASES, CHYMOTRYPSIN
SEE ALSO PROTEASES AND PEPTIDASES, TRYPSIN
R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)

PANCREAS DISORDERS, PANCREATITIS
R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
R01HL-16603-05 Human and experimental renal diseases (animals)

PANCREAS HORMONES
P01HL-08682-15 0019 Regulation of the cardiovascular system - Hepatic immunophysiology and host-defense in shock (rat, dog, human)
R01HL-14990-07 Lipid transport in avian species (chickens)

PANCREAS HORMONES, GLUCAGON
R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
P01HL-06285-18 0149 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in prediabetic and diabetic subjects (human)
R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
P01HL-11310-12 0079 Mechanisms of cardiovascular disease - Electrophysiological studies of complete heart block (human)
P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension
** R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
R01HL-13715-08 Myocardial adenyl cyclase (rats)
P50HL-14230-07 0094 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of atherosclerosis and regression (monkeys)
R01HL-14706-07 Fetal hearts in organ culture (mice)
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-18020-04 Splanchnic hemodynamics in man
R01HL-18148-04 Adrenal catecholamine secretion
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
R01HL-18705-03 Regulation of plasma triglyceride metabolism (rats)
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
R01HL-20183-02 Portacaval shunt as treatment for hyperlipemia (pigs)
R01HL-20476-03 Effects of diabetes on cardiac performance (rat)
R01HL-20483-03 Sterol balance and cholesterol absorption in diabetics (human)
P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
R01HL-21140-01 Studies of pulmonay alveolar macrophage function (rabbits)
R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
R01HL-22561-01 Hormonal control of mesenteric circulation (cats)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R01HL-22812-01 Regulation of hepatic production of HDL (rats)

PANCREAS HORMONES, INSULIN
SEE ALSO CARBOHYDRATES METABOLISM DISORDERS, DIABETES
SEE ALSO PANCREATIC ISLETS DISORDERS, HYPERINSULINISM
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
** R01HL-01813-25 Regulation of metabolism by drugs and hormones (rats)
R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
P01HL-06285-18 0149 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in prediabetic and diabetic subjects (human)
** R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)
R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
P01HL-08682-15 0020 Regulation of the cardiovascular system - Hepatic metabolic basis of shock (rat)
P01HL-08682-15 0021 Regulation of the cardiovascular system - Hypoglycemia in pathogenesis of shock (dog)
R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
R01HL-12869-09 Arterial metabolism, diabetes and atherogenesis (rats, rabbits)
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
R01HL-13029-09 Metabolic regulation of sugar transport (pigeons, rats)
R01HL-13193-09 Pathophysiology of post-traumatic and shock states (rodents, dogs)
R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)
R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
P50HL-14138-05 0008 Center for research on atherosclerosis - Core lipid laboratory (human)
P50HL-14141-05 0008 SCOR for atherosclerosis in childhood - Core laboratory
R01HL-14706-07 Fetal hearts in organ culture (mice)
P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
R01HL-15427-06 Secretion of plasma lipoproteins (rats)
R01HL-15813-05 Cardiac anoxia--Protective effect of carbohydrate (dogs)
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
R01HL-16567-04 Differentiation of the heart-cell membrane (mice, chick)
R01HL-16577-04 Lipoprotein lipase chemistry and function (rats, cattle, human)
P50HL-17667-04 0040 Study of ischemic heart disease - Core biochemistry--Cardiac metabolism (human)
R01HL-18185-04 Cardiac glycosides and diuretics--Role of NaO pump (dogs)
R01HL-18537-04 Regional blood flow after acute myocardial injury (dogs)
** R01HL-18705-03 Regulation of plasma triglyceride metabolism (rats)
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)
R01HL-19195-03 Hormonal regulation of lung function (rats)
R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
R01HL-19669-03 Lung organ culture and surfactant biosynthesis (adult and fetal rats)
R01HL-19752-03 Phospholipid synthesis by fetal lung in organ culture (rats)
R01HL-20183-02 Portacaval shunt as treatment for hyperlipemia (pigs)
R01HL-20388-03 Regulation of protein turnover in diabetic heart (rat)
** R01HL-20401-03 Relationship of insulin to catechol cardiomyopathy (rabbit, pig)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
** R01HL-20439-02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
R01HL-20476-03 Effects of diabetes on cardiac performance (rat)
R01HL-20483-03 Sterol balance and cholesterol absorption in diabetics (human)
R01HL-20488-03 Cholesterol metabolism in diabetic man
R01HL-20508-03 Diabetes, hyperglycemia and cardiovascular disease (human)
P01HL-20552-02 0001 The development and regression of cardiac hypertrophy - Biochemical events in cardiac hypertrophy (rats)
P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
R01HL-21140-01 Studies of pulmonay alveolar macrophage function (rabbits)
R01HL-21482-01 Cardiac function and metabolism in diabetes (rats)
R23HL-21842-01 Control of sugar entry in normal and diabetic heart (rats)
R01HL-21970-01 Myofibrillar assembly and breakdown in cardiac muscle (rats)
** R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
R01HL-22064-02 Glycogen metabolism in anoxic diabetic myocardium (rats)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
R01HL-22121-02 Dyslipoproteinemia in diabetes and vascular disease (human)
R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)
R01HL-22500-01 Conversion of choline to phosphatidylcholine in lung (rabbits, pigs)
R01HL-22581-02 Neurocirculatory control in diabetes mellitus (human)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R01HL-22812-01 Regulation of hepatic production of HDL (rats)
N01HV-12159-09 Lipid research clinic

PANCREAS HORMONES, INSULIN INHIBITORS
R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)

PANCREATIC CYSTIC FIBROSIS
SEE METABOLIC DISORDERS INBORN, CYSTIC FIBROSIS

PANCREATIC ENZYMES
SEE PANCREAS, PANCREATIC ENZYMES

PANCREATIC ISLETS DISORDERS
SEE ALSO CARBOHYDRATES METABOLISM DISORDERS, DIABETES
R01HL-20381-03 Long-term study of diabetic vascular disease (human)

PANCREATIC ISLETS DISORDERS, HYPERINSULINISM
** P01HL-06835-17 0024 Cardiovascular disease - Studies on the obese spontaneously hypertensive rat
R01HL-08506-15 Lipemia-carbohydrate and glyceride metabolism (human, rats)

PANCREATIC LIPASE
SEE LIPASES, TRIACYLGLYCEROL LIPASE

PANCREATIN
SEE PANCREAS, PANCREATIC ENZYMES

PANCREATITIS
SEE PANCREAS DISORDERS, PANCREATITIS

PANCREATOPEPTIDASE E
SEE PROTEASES AND PEPTIDASES, ELASTASE

PANCREOZYMIN
SEE GASTROINTESTINAL HORMONES, PANCREOZYMIN-CHOLECYSTOKININ

PANCREOZYMIN-CHOLECYSTOKININ
SEE GASTROINTESTINAL HORMONES, PANCREOZYMIN-CHOLECYSTOKININ

PANCURONIUM
SEE ANDROSTANE SERIES, PANCURONIUM

PAPAIN
SEE PROTEASES AND PEPTIDASES, PAPAIN

PAPAVERINE
SEE QUINOLINES, ISOQUINOLINES, PAPAVERINE

PAPAYA ENZYME
SEE PROTEASES AND PEPTIDASES, PAPAIN

PAPILLARY MUSCLES
SEE HEART, PAPILLARY MUSCLES

PAPILLEDEMA
SEE EYE DISORDERS, PAPILLEDEMA

PARABIOSIS, VASCULAR
SEE CARDIOVASCULAR SURGERY, EXTRACORPOREAL CIRCULATION, CROSS CIRCULATION

PARAGANGLIA
SEE NERVOUS SYSTEM, PARAGANGLIA

PARAGANGLION AORTICUM
SEE NERVOUS SYSTEM, PARAGANGLIA, AORTIC BODY

PARAGANGLION CAROTICUM
SEE NERVOUS SYSTEM, PARAGANGLIA, CAROTID BODY

PARAINFLUENZA VIRUSES
SEE VIRUSES, PARAMYXOVIRUSES, PARAINFLUENZA VIRUSES

PARALLEL PATH MODEL
SEE BIOLOGICAL TRANSPORT, MEMBRANE MODELS

PARALYSIS
SEE NEUROMOTOR DISORDERS, PARALYSIS

PARALYSIS AGITANS
SEE NEUROMOTOR DISORDERS, PARKINSON'S DISEASE

PARALYSIS OF FOWL (MAREK'S)
SEE NERVOUS DISORDERS CENTRAL, MAREK'S DISEASE

PARAMEDICAL EDUCATION
SEE EDUCATION, HEALTH OCCUPATIONS, ALLIED

PARAMEDICAL PERSONNEL
SEE HEALTH SCIENCES PROFESSIONS, HEALTH (CARE) PERSONNEL ALLIED

PARAMYOSIN
SEE MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), PARAMYOSIN

PARAPLEGIA
SEE NEUROMOTOR DISORDERS, PARALYSIS, PARAPLEGIA

PARAPROTEINEMIAS ACQUIRED
SEE BLOOD PROTEINS DISORDERS

PARAPROTEINEMIAS CONGENITAL
SEE BLOOD PROTEINS DISORDERS CONGENITAL

PARAQUAT
SEE PESTICIDES, HERBICIDES, PARAQUAT

PARASITIC DISEASES, HELMINTH INFECTIONS (GENERAL)
SEE ALSO IMMUNOLOGY, ANTIGENS HELMINTHIC
** P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Dirofilaria immitis in the dog

PARASITIC DISEASES, HELMINTH INFECTIONS, SCHISTOSOMIASIS
R01HL-19732-03 Lymphokines in pulmonary granulomatous inflammation (mice)

PARASITIC DISEASES, PROTOZOAL INFECTIONS, MALARIA
SEE ALSO COMMUNICABLE DISEASE CONTROL AGENTS, ANTIMALARIALS
P01HL-16833-04 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)

PARASYMPATHETIC NERVOUS SYSTEM
SEE NERVOUS SYSTEM AUTONOMIC, PARASYMPATHETIC NERVOUS SYSTEM

PARASYMPATHOLYTIC AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, PARASYMPATHOLYTIC

PARASYMPATHOMIMETIC AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, PARASYMPATHOMIMETIC

PARATERMINAL BODY (SEPTAL AREA)
SEE BRAIN, LIMBIC SYSTEM, SEPTAL AREA

PARATHIAZINE
SEE THIAZINES

PARATHYROID GLANDS DISORDERS, HYPERPARATHYROIDISM
R01HL-14720-08 Factors governing the renal excretion of acid (humans, rats)

PARATHYROID HORMONES
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
R01HL-14133-08 Intrarenal regulation of sodium reabsorption (dogs, hamsters, rats)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
** R01HL-14720-08 Factors governing the renal excretion of acid (humans, rats)
R01HL-16658-05 Intrarenal regulation of sodium reabsorption
R01HL-19961-03 Management of hemosiderosis in thalassemia (children, adults)
R01HL-22561-01 Hormonal control of mesenteric circulation (cats)

PARATHYROIDECTOMY
R01HL-14720-08 Factors governing the renal excretion of acid (humans, rats)

PARENT-CHILD
SEE FAMILY, PARENT-OFFSPRING

PARENT-OFFSPRING
SEE FAMILY, PARENT-OFFSPRING

PARENTERAL FEEDING
SEE NUTRITION, DIET SCHEDULE AND ROUTE, PARENTERAL FEEDING

PARENTS
SEE FAMILY, PARENTS

PARIETAL LOBE
SEE BRAIN, CEREBRUM, PARIETAL LOBE

PARKINSON'S DISEASE
SEE NEUROMOTOR DISORDERS, PARKINSON'S DISEASE

PAROXYSMAL NOCTURNAL HEMOGLOBINURIA
SEE HEMOPROTEINS, HEMOGLOBINURIA, PAROXYSMAL NOCTURNAL

PARTICLE ACCELERATORS
SEE RADIATION, PARTICLE ACCELERATORS

PARTICLE BEAMS SUPRAMOLECULAR
SEE PHYSICAL PROPERTIES, AEROSOL AND PARTICLE BEAMS

PARTICLE COUNTERS
R01HL-20024-03 Therapeutic aerosols--Characteristics and retention (human, dogs)
P01HL-22163-01 0002 Surface thrombogenesis--Mechanisms and prevention - Laser-scattering detection of microemboli in blood flow (baboons)

PARTICLES AND PARTICULATE MATTER
SEE PHYSICAL PROPERTIES, PARTICLES

PASSIVE CUTANEOUS ANAPHYLAXIS
SEE HYPERSENSITIVITY, SKIN SENSITIZING ANTIBODY

PASSIVE IMMUNIZATION
SEE IMMUNITY, IMMUNIZATION PASSIVE

PASSIVE SENSITIZATION
SEE HYPERSENSITIVITY, SENSITIZATION PASSIVE

PASSIVE SENSITIZATION TRANSFER FACTOR
SEE HYPERSENSITIVITY, TRANSFER FACTOR (HYPERSENSITIVITY)

PASSIVE TRANSPORT
SEE BIOLOGICAL TRANSPORT, PASSIVE TRANSPORT

PATELLA
SEE SKELETAL SYSTEM, JOINT, KNEE

PATENT DUCTUS ARTERIOSUS
SEE CONGENITAL ABNORMALITIES, CARDIOVASCULAR SHUNTS ABNORMAL, PATENT DUCTUS

PATHOBIOLOGICAL CHEMISTRY STUDY SECTION
** R01HL-15125-07 Molecular pathology of genetic disorders in man
** R01HL-16588-05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
** R01HL-16904-03 Regulation of smooth muscle cells in arteriosclerosis (rabbit aorta)
** R01HL-17995-04 Cellular synthesis and release of mucopolysaccharides (rabbits)
** R01HL-18561-03 Radioimmunoassay of angiotensinogen (human)
** R01HL-18908-03 Angiotensin converting enzyme of human serum
** R01HL-18918-03 Characterization of lung elastins (rat, rabbit, chicken, Rhesus)
** R01HL-18931-02 Lung elastic tissue characteristics (swine, human)
** R01HL-19011-03 Smooth muscle cell membrane glycoprotein biosynthesis (cattle)
** R01HL-19252-02 Vascular connective tissue--Role in atherosclerosis (rabbits)
** R01HL-19820-02 The chemistry and biological effects of heparin (Rhesus, human, other mammals)
** R01HL-20546-02 Chemical analysis of human arterial elastin
** R01HL-20547-02 Glycoproteins in pulmonary alveolar proteinosis (human)
** R01HL-20764-02 Elastin and calcification in pulmonary and vascular disease (human, mammals)
** R01HL-20868-02 Regulation of glycoprotein biosynthesis in lung (swine)
** R01HL-21095-02 Enzymes of M tuberculosis and obstructive lung disease (human, rodents)
** R23HL-21225-02 Connective tissue precursor molecules in the lung (rabbits, hamsters)
** R01HL-21303-02 Collagen synthesis by cultured human vascular cells
** R23HL-21328-02 The I blood group antigen of human erythrocyte membrane

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R23HL-21411-02 Control of extracellular lysosomal hydrolase levels (rats)
** R23HL-21413-02 Structure and function of platelet calcium-binding protein (human)
** R01HL-21480-01 Structure, source and functions of alveolar glycoproteins (human, rabbits)
** R23HL-21488-01 Myosin-linked regulation in vertebrate smooth muscle (calf aorta)
** R23HL-21504-02 Collagen synthesis in pulmonary fibrosis cells (human)
** R01HL-21615-01 Structural studies of lung heparinoid polysaccharides (cattle)
** R01HL-21644-01 Fibronectin and related glycoproteins (human, rodents)
** R23HL-21663-01 Regulation of collagen biosynthesis (chick, embryo)
** R01HL-21665-01 Collagen polymorphism and arterial structure (monkeys, guinea pigs)
** R01HL-21763-09 Heparin and heparan sulfate--Structure and activity (beef, hog)
** R01HL-22242-01 The converting enzyme of lung (cattle, human)
** R01HL-22401-01 Regulation of tension and active state in the heart
** R01HL-22651-01 Control of protein metabolism in heart muscle
** R01HL-22729-01 Intracellular degradation of newly synthesized collagen (human, chick, rabbit)
** R23HL-22818-01 Biosynthesis of human respiratory mucous glycoprotein (also dog)
** R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
** R01HL-23994-01 Biochemical properties of human cardiac myosin

PATHOGENIC DIET
SEE NUTRITION, DIET PATHOGENIC

PATHOLOGIC PROCESSES
SEE DISEASES, PATHOLOGIC PROCESSES (NOT CLASSIFIED ELSEWHERE)

PATHOLOGY
SEE DISEASES, PATHOLOGY (GENERAL)*

PATHOLOGY MICROSCOPIC
SEE HISTOPATHOLOGY (GENERAL)*

PATHOLOGY STUDY SECTION
** R01HL-01623-24 Antigens related to graft rejection (rabbits, rats)
M R01HL-01803-23 Arteriosclerosis, glomerulonephritis, rheumatic fever
** R01HL-01979-22 Arteriosclerosis in zoo animals on controlled diets (animals)
** R01HL-02986-21 Zonal renal change with potassium deficiency (rats, human)
** R01HL-04300-20 Fine structure of diseased glomeruli (human, rats, dogs)
** R01HL-05694-20 Functional pathology of cardiovascular disease (human)
** R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
** R01HL-09622-14 Pathogenesis of atherosclerosis (rats)
** R01HL-10980-11 Ultrastructural renal pathology (human, rats)
** R01HL-11897-11 Pathogenesis of experimental atherosclerosis (rabbits, guinea pigs)
** R01HL-11963-10 Biochemistry of blood vessel formation and disease (swine)
** R01HL-12557-09 Effects of steroids and pregnancy on arteries and veins (guinea pigs)
** R01HL-12561-11 Cardiovascular studies on copper deficiency (swine)
** R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
** R01HL-13632-08 Vascular changes in diabetes mellitus (human)
** R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
** R01HL-13722-08 Acid and alkaline lipases in aortas (rats, rabbits, human)
** R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)
** R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
** R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
** R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
** R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
** R01HL-15965-06 Experimental atherosclerosis and elastin metabolism (chicks)
** R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
** R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
M R01HL-17543-03 Magnetic tracers for diagnosis of lung disease
** R01HL-17596-03 Leukocyte-endothelial interactions (rats)
** R01HL-17747-04 Endothelial injury and regeneration (rats)
** R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
** R01HL-18085-03 Neural factors in atherogenesis (squirrel monkeys)
** R01HL-18152-03 Vascular injury and atherosclerosis (mice, coxsackievirus)
** R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
** R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)
** R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
** R01HL-18631-03 Ultrastructural correlates of myocardial ischemia (rats, swine)
** R01HL-18714-04 Cardiovascular matrix Morphogenesis and maturation (human, chick embryo, mammal)
** R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
** R01HL-18826-04 Interaction of peptides and target cells in lung (human)
** R01HL-18923-02 Steroid-induced hyperlipidemia and hypertension (human, rats)
** R01HL-18952-03 Metabolism in perfused fetal and newborn rabbit lungs
** R01HL-19000-03 Irreversible myocardial injury (rats)
** R01HL-19001-03 Atherosclerosis in bleeder and drug treated subjects (pigs)
** R01HL-19018-03 Etiologic factors in cryptogenic fibrosing alveolitis (human)
** R01HL-19053-03 Vascular anatomy of the telencephalon (human)
** R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
** R01HL-19077-01 Biochemistry and molecular biology of sarcoidosis (human, rabbits)
** R01HL-19109-03 Regression of chronic atherosclerosis (rabbits)
** R01HL-19237-03 Obstructive lung disease and alveolar macrophages (human, animals)
** R01HL-19316-03 Study of glomerular permeability (fish, turtle, frog, chordates, crustacea)
** R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
** R01HL-19379-03 Characterization of small-granule cells in the lung (mammals)
** R01HL-19429-03 Phagocytosis--Ingestion in alveiolar macrophages (rabbits)
** R01HL-19539-03 Pathology of hypertensive-associated arteritis (rabbits)
** R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)
** R01HL-20189-01 Effects of renin on atherogenesis (rabbits)
** R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)
** R01HL-20199-02 Drug-induced alterations in infarct size in the rat
** R01HL-20400-03 Diabetic neuropathy and peripheral vascular diseases (human, hamsters)
** R01HL-20500-02 Diabetic human brain microvascular basement membrane (human)
** R01HL-20548-02 Innervation of the lung (rats, monkeys)
** R01HL-20675-02 Alveolar macrophage function in man
** R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
** R01HL-20878-02 Cellular aspects of lung injury (rats, rabbits)
** R01HL-20963-01 Experimental lung abscess (rabbits)
** R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
** R01HL-21120-02 Membrane dynamics in alveolar macrophages (rabbits)
** R01HL-21126-02 Exercise-induced bronchospasm in children
** R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)
** R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
** R23HL-21327-02 Molecular mechanisms of chemical myocardiopathies (rats)
** R23HL-21369-02 Tracheal mucin synthesis in experimental bronchitis (rats)
** R23HL-21396-02 Isolation, growth and metabolism of type 1 pneumocytes (rabbits)
** R01HL-21416-02 Atherosclerosis in new modles of diabetes mellitus
** R01HL-21429-02 Transport of LDL in arterial wall (human, mammals)
** R01HL-21438-02 Structure and permeability of arterial endothelium (pigs)
** R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
** R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
** R01HL-21592-01 Lipoproteins and coagulation factors in atherosclerosis (pigeons)
** R01HL-21829-01 Etiology of obstructive airway disease in children (also monkeys)
** R23HL-21918-01 Hypersensitivity pneumonitis in guinea pigs
** R23HL-21943-01 Capillary morphology in pulmonary edema (dogs)
** R01HL-21948-01 Capillary, tissue volume and lymph flow in lung edema (sheep, cattle)
** R23HL-21950-01 Endothelial cell mechanisms in vascular disease (human)
** R01HL-21994-01 Structure and development of regenerating capillaries (rabbits, chick embryo)
** R23HL-21997-01 Pulmonary immunopathology in the compromised host (guinea pigs)
** R01HL-22149-01 Morphologic examination of brain parenchymal vessels (cats)
** R01HL-22302-01 Immune responses in the human lung (also rabbits, monkeys)
** R01HL-22341-01 Pathogenesis of atherosclerosis in rats
** R23HL-22437-01 Leukotactic mediators in lung inflammatory reactions (rats, rabbits, human)
** R01HL-22444-01 Bronchial mucus production in organ culture (human)
** R01HL-22520-01 Pulmonary vascular response to group B Streptococci (human, mammals)
** R01HL-22552-02 Abnormal alveolar permeability and lung disease (sheep)
** R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
** R01HL-22676-01 Pathogenesis in experimental interstitial pneumonitis (rabbits)
** R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
** R01HL-22883-01 Lung epithelial cell interactions in vitro
** R23HL-22895-01 Smoke inhalation Biochemical and cellular responses (rabbits, bacteria)
** R01HL-23595-01 Experimental emphysema--Depression of protease inhibitors (rats, hamsters)
** R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)
** R01HL-23981-01 Acute alveolar injury (dogs)

PATIENT CARE
SEE HEALTH CARE SERVICES, PATIENT CARE

PATIENT CARE, CANCER PATIENTS
SEE HEALTH CARE SERVICES, CASE FINDING AND OUTREACH

PATIENT CARE, COMPREHENSIVE
SEE HEALTH CARE SERVICES, PATIENT CARE MANAGEMENT, COMPREHENSIVE CARE

PATIENT CARE, HOME CARE
SEE HEALTH CARE SERVICES, HOME CARE

PATIENT CARE MANAGEMENT
SEE HEALTH CARE SERVICES, PATIENT CARE MANAGEMENT

PATIENT CARE PLANNING
SEE HEALTH CARE SERVICES, PATIENT CARE MANAGEMENT, PLANNING

PATIENT CARE QUALITY
SEE HEALTH CARE QUALITY

PATIENT MONITORING (AUTOMATED)
SEE BIOMEDICAL SYSTEMS AUTOMATED, PATIENT MONITORING (MONITORING DEVICES)

PATIENT PROFESSIONAL RELATIONS
SEE HEALTH CARE SERVICES, PATIENT-PROFESSIONAL RELATIONS

PATIENT REFERRAL
SEE HEALTH CARE SERVICES, REFERRAL AND CONSULTATION

PATIENT REGISTRIES
SEE HEALTH RECORD SYSTEMS, PATIENT (DISEASE) REGISTRIES

PATTERN RECOGNITION (COMPUTER)
SEE COMPUTER, ARTIFICIAL INTELLIGENCE, PATTERN RECOGNITION AND CONTROL SYSTEMS

PATTERN RECOGNITION, COMPUTER (OTHER THAN IMAGE-WAVESHAPE, OR COMPUTER SIMULATION OR DIAGNOSIS)
SEE COMPUTER, ARTIFICIAL INTELLIGENCE, PATTERN RECOGNITION AND CONTROL SYSTEMS

PBB
SEE HALOBENZENES, HALOGENATED BIPHENYLS-TRIPHENYLS AND ANALOGS

PBI
SEE HALOPROTEINS, PROTEIN BOUND IODINE

PBT
SEE HALOBENZENES, HALOGENATED BIPHENYLS-TRIPHENYLS AND ANALOGS

PCB
SEE HALOBENZENES, HALOGENATED BIPHENYLS-TRIPHENYLS AND ANALOGS

PCPA (PARACHLOROPHENYLALANINE)
SEE CYCLIC AMINO ACIDS, PHENYLALANINE, P-CHLOROPHENYLALANINE

PCT
SEE HALOBENZENES, HALOGENATED BIPHENYLS-TRIPHENYLS AND ANALOGS

PEDIATRIC CARE (SERVICES)
SEE CHILD HEALTH CARE (SERVICES)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

PEER GROUPS
SEE PSYCHOLOGY SOCIAL, GROUP PROCESSES, PEER GROUPS

PELLAGRA PREVENTIVE FACTOR
SEE PYRIDINE CARBOXYLIC ACIOS, NICOTINIC ACIO

PENICILLAMINE
SEE SULFUR AMINO ACIDS, PENICILLAMINE

PENICILLIN
SEE ANTIBIOTICS, PENICILLIN

PENICILLIN G
SEE ANTIBIOTICS, PENICILLIN G

PENTOBARBITAL
SEE PYRIMIOINES, BARBITURATES, PENTOBARBITAL

PENTOSE PATHWAYS
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)

PENTOSE PATHWAYS, HEXOSE MONOPHOSPHATE PATHWAY
R01HL-12944-09 Enzymatic and biochemical studies on blood cells (human)
P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
R01HL-19324-02 Mechanisms of the inhibition of sickling by OBA (human)
R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
R01HL-20125-02 Cyclic nucleotides and alveolar macrophage activation (rabbits)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)

PENTOSES, XYLOSE
R01HL-21641-02 Structural studies of lung proteoglycans (pigs, cattle, rabbits)

PEPTIC ULCER
SEE GASTROINTESTINAL OISDROERS, PEPTIC ULCER

PEPTIDASE INHIBITORS
SEE ENZYME INHIBITORS, PROTEASE INHIBITORS (GENERAL)

PEPTIDASES
SEE PROTEASES ANO PEPTIOASES, PEPTIDASES

PEPTIDE STRUCTURE
SEE PROTEINS-PEPTIOES STRUCTURE

PEPTIDE-POLYPEPTIDE HORMONES BIOSYNTHESIS
SEE ENODCRINOLOGY, HORMONES BIOSYNTHESIS, PEPTIOE-POLYPEPTIOE HORMONES BIOSYNTHESIS

PEPTIDE-POLYPEPTIDE HORMONES
SEE ENOOCRINOLOGY, HORMONES, PEPTIOE-POLYPEPTIOE HORMONES

PEPTIDE-POLYPEPTIDE RELEASING FACTORS
SEE PITUITARY-OIENCEPHALON HORMONES, LH RELEASING FACTOR

PEPTIDES
SEE ALSO AMIND ACIDS, N-CARBAMYL AMINO ACIDS
SEE ALSO ENODCRINOLDGY, HORMONES, PEPTIDE-POLYPEPTIDE HORMONES
SEE ALSO GLYCOPEPTIOES
SEE ALSD PROTEASES AND PEPTIOASES
** P01HL-11310-12 0062 Mechanisms of cardiovascular disease - Myocardial depressant factor in postoperative cardiac dysfunction (human, dogs)
P50HL-14236-05 0003 Prevention of premature arteriosclerosis - Intravascular clotting in patients with hyperlipidemia
R01HL-15308-07 Assays for peptides of lipoproteins (human)
** P01HL-15486-06 0001 Studies on thrombosis - Studies on chemistry of fibrinogen (human, dogs)
** P01HL-15486-06 0002 Studies on thrombosis - Characterization of antisera to fibrinopeptide B (human, rabbits)
** P01HL-15486-06 0003 Studies on thrombosis - Mechanism and prevention of fibrinopeptide B degradation (human)
** P01HL-15486-06 0004 Studies on thrombosis - Thrombosis, intravascualr coagulation, platelet aggregation (dogs)
** P01HL-15486-06 0006 Studies on thrombosis - Clinical investigation unit
P01HL-16607-05 0005 Calcium ion and control of cardiovascular function - Chemical modifications of the sarcoplasmic reticulum membranes (rabbits)
P01HL-17382-D5 0DD3 Chemical mediators of acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
** R01HL-17896-03 Dehydropeptide renin substrates
R01HL-18259-03 Controlled intratissue release of prostaglandins
P01HL-18827-02 0002 Platelet vessel wall interactions in thrombogenesis - Interactions of vessel wall macromolecules with factor XII (human, rats)
R01HL-19517-03 Synthesis of inhibitors for the study of renal renin (dogs, monkeys)
R01HL-19538-03 Synthesis of potential antihypertensive agents
** R01HL-19977-02 Genesis of circulatory shock by pancreatic peptides (cats, dogs)
P01HL-20994-02 0009 Oynamics of neutrophil elastase in the lung - Biosynthesis and degradation of elastin in emphysema (human, hamsters)
P50HL-21006-02 0006 Specialized center of research in arteriosclerosis - Intravascular coagulation and thrombosis in hyperlipidemia (human)
R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)
P01HL-22619-01 0001 Cellular mechanisms of heart failure - Cell membrane isolation and reconstitution (dogs, lambs)
P01HL-22633-01 0004 Cellular and molecular biology of lipoprotein metabolism - Lipid-lipid and lipid-protein interactions in serum lipoproteins (human, rats)
R01HL-22780-01 Factors modifying the reaction properties of HgS (human)
N01HV-42984-05 Interactions of modified biopolymers with blood (humans, rats)

PEPTIDES, GLUTATHIONE
P01HL-06370-17 0015 Cardiopulmonary and renal pathology research center - Pathogenesis of chemically induced tissue injury (rats)
P01HL-12157-11 0051 Functions and mechanisms of cell membrane ion transport - Electron transport in the red cell membrane (human, guinea pigs)
R01HL-12944-09 Enzymatic and biochemical studies on blood cells (human)
** R01HL-12972-09 Glutathione deficiency in red cells (sheep, dogs)
P01HL-16851-04 0006 Human red cell membrane in health and disease - Hexose transport and erythrocyte membrane proteins (human)
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)

PEPTIDES, HOMOPEPTIDES
** R01HL-23183-01 Voltage dependent conductance in membranes

PEPTIDES, HOMOPEPTIDES, GLUTAMYL
P01HL-15195-04 0003 Program project in biological materials - Mechanical evaluation and fabrication

PEPTIDES, HOMOPEPTIDES, LYSINE PEPTIDES
R01HL-17525-03 Molecular basis of collagen-platelet interaction (human, rat)

PEPTIDES, OLIGOPEPTIDES
R01HL-01662-25 Equilibria in the fibrinogen-fibrin conversion (human, cattle)
R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
R01HL-13909-27 Physiochemistry and immunology of macromolecules
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
R01HL-19795-03 Synthesis of anaphylatoxic and leucotactic peptides (human)
R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)
R01HL-21544-02 Proteins of coagulation and Hageman factor pathways (human, goats)

PEPTIDES, OLIGOPEPTIDES, SARALASIN
P01HL-03174-23 0001 Mechanisms of acute vascular reaction to injury - Response of the vascular intima to injury (human, rats)
** P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
** P01HL-06835-17 0038 Cardiovascular disease - Effect of chronic administration of angiotensin antagonist (rats)
** P01HL-06835-17 0055 Cardiovascular disease - Vascular and adrenocortical response to angiotensin II (dogs)
P01HL-11678-11 0040 Cardiovascular dynamics and their control - Control of plasma potassium concentration (dogs)
P01HL-11678-11 0064 Cardiovascular dynamics and their control - Renal medulla--Control of renal hemodynamics, electrolyte excretion (dogs)
** R01HL-13595-D8 Renin and vascular hyper-reactivity in hypertension (human, rats)
P50HL-14192-08 0D05 Specialized center of research in hypertension - New techniques for recognition of renovascular hypertension (human, dogs)
R01HL-14944-07 Renal vascular reactivity in hypertensive patient
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-17403-03 Metabolic control of cardiac output (dogs)
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
P50HL-18318-03 0010 Pathogenesis and complications of hypertension - Hemodynamics in mineralocorticoid and low renin hypertension (human)
P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
P50HL-18323-04 0044 SCOR hypertension center - Angiotensin blockade to identify angiotensin II factor in hypertension (human)
R01HL-18862-02 Thirst and its contribution to edema (dogs)
R01HL-19279-03 Intracellular action of aldosterone in hypertension (human, rats)
R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
R01HL-19825-02 Renin-volume interactions in coarctation hypertension (dogs)
R01HL-21092-02 Factors other than renin in renal hypertension (rats)
R01HL-22051-01 Role of angiotensin II in vasopressin release (human)
R01HL-22216-02 Vascular mechanisms in renal hypertension (dogs)
R01HL-22411-01 Neuroendocrine involvement in hypertension (rats)
R23HL-22438-01 The etiology of genetic hypertension (rats)
R01HL-22563-02 Prostaglandins, the kidney and hypertension (rats)
R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

PEPTIDES, POLYPEPTIDES
R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
P01HL-06285-18 0215 Cardiovascular-respiratory physiology and biochemistry - Conformation of biopolymers
** R01HL-09283-14 Pharmacology of molluscan hearts (also rabbits)
** R01HL-10316-13 Structural studies on low density serum lipoproteins (human)
P01HL-11414-11 0033 Thrombosis and atherosclerosis program - Human coumarin-induced prothrombin
R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
R01HL-12684-09 Angiotensin I and converting enzyme in hypertension (human, primates, dogs)
P50HL-14217-08 0048 Specialized center of research in thrombosis - Fibrinolysis section--Structural studies (human, animal)
P50HL-14236-05 0004 Prevention of premature arteriosclerosis - Plasma lipoproteins (human, rats)
P50HL-14237-07 0003 Support for arteriosclerosis center - Structure of lipoproteins and apolipoproteins (human, rabbits)
P50HL-15062-07 0013 Study of lipoproteins, artery wall, and atherosclerosis - Radioimmunoassay of apolipoproteins (human, monkeys)
P60HL-15170-05 0017 Support for center for sickle cell anemia - Control of hemoglobulin synthesis (human)
P01HL-15195-04 0001 Program project in biological materials - Oesign and synthesis
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
R01HL-15690-07 Hydrolytic enzymes of blood in health and disease (human, animals)
R01HL-15991-05 Evaluation of heart stimulants in sea anemones
R01HL-16445-05 Regulation of plasma protein biosynthesis (rats, rabbits)
R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
R01HL-18245-03 Transition state analog inhibitors of thrombin (human, cattle)
R01HL-18526-03 Kinins and the human lung
P01HL-18577-03 0003 Lipoproteins--Cell surface interactions - Mechanism of lipid exchange in lipoproteins and cell membranes
P01HL-18577-03 0004 Lipoproteins--Cell surface interactions - Analysis and chemical modification of proteins in lipid transport (human, dogs)
P01HL-18577-03 0005 Lipoproteins--Cell surface interactions - Chemical synthesis of apolipoproteins and apoliprotein fragments
P01HL-18577-03 D008 Lipoproteins--Cell surface interactions - Core laboratory 1
PD1HL-18577-03 0011 Lipoproteins--Cell surface interactions - Core laboratory 4
R01HL-19379-03 Characterization of small-granule cells in the lung (mammals)
R23HL-19594-01 Tropocollagen and tropoelastin uptake in lung cells (human)
P01HL-20592-D2 0011 Cell biology of cardiac and skeletal muscle - Myosin and cytochrome oxidase messenger RNAs (chicken)
R01HL-21096-02 Sickle cell crisis--Role of the erythrocyte membrane (human)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-21120-02 Membrane dynamics in alveofer macrophagas (rabbits)
R01HL-21342-02 Isolation and anelysis of sodium chennel from heart (frogs)
R01HL-21394-02 Pulmonery angiotensin-converting enzyme (rebbits)
R01HL-21845-01 Humen rad cell membrane--Structure end function
R01HL-22570-01 Interections of sterols in biological systems (human)
** R01HL-22618-01 Rola of apolipoproteins in hypertriglyceridemia (human)
** N01HR-72923-01 Cystic fibrosis fector identification and quentification (humen)

PEPTIDES, UNNATURAL PEPTIDES

SEE ALSO PEPTIOES, HOMOPEPTIOES
R01HL-17525-03 Molecular basis of collagen-platelet interection (human, rat)
R01HL-18226-04 Mechanism of oxygen supply to tissue (human, animals)
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
R01HL-19795-03 Synthesis of anaphylatoxic and leucotactic peptides (human)
** R01HL-23183-01 Voltage dependent conductance in membranes

PEPTIDES, VASOACTIVE PEPTIDES

SEE ALSO PEPTIOES, OLIGOPEPTIOES, SARALASIN
SEE ALSO PROTEASES ANO PEPTIOASES, ANGIOTENSINASE
SEE ALSO PROTEASES ANO PEPTIOASES, PROLYLCARBOXYPEPTIOASE
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
** P01HL-13262-07 0018 Arterial wall in atherosclerosis - Vasoactive factors of human plasma
M P50HL-14187-07 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses
** P50HL-14187-07 0012 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
** P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in fung (human, mammals)
** R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)
P01HL-16411-04 0001 Blood systems in coagulation and vessel disease - Molecular studies of the role of complement in blood coagulation (human, rabbits)
R01HL-17080-05 Localization of pore systems in capillary walls (rats, mice, rabbits)
P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
** R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
** R01HL-18027-03 New vasoactive factors and their role in hypertension (human, dogs, rats)
** R01HL-18826-04 Interaction of peptides and target cells in lung (human)
R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
** R01HL-19539-03 Pathology of hypertensive-associated arteritis (rabbits)
** R01HL-19795-03 Synthesis of anaphylatoxic and feucotactic peptides (human)
** R01HL-20220-03 Anaphylatoxins as inflammatory and chemotactic agents (guinea pig, rabbit, human)
** R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
R01HL-21568-02 Cell biology of the alveolar-capillary unit (animals)
** R01HL-22244-01 Cardiopulmonary bypass and the vascular endothelium (dogs)
** R01HL-22288-01 Renin and precursors--Structure and function (mice)
** R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)
** R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)

PEPTIDES, VASOACTIVE PEPTIDES, ANGIOTENSIN

P01HL-06285-18 0146 Cardiovascular-respiratory physiology and biochemistry - Pathogenesis and detection of hypoxic pulmonary edema (human, animals)
** P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
P01HL-06835-17 0032 Cardiovascular disease - Synthesis of angiotensin II as inhibitors for aldosterone
** P01HL-06835-17 0033 Cardiovascular disease - Structure-activity relationship of angiotensin fl analogs (rats)
P01RL-06835-17 0038 Cardiovascular disease - Effect of chronic administration of angiotensin antagonist (rats)
** P01HL-06835-17 0056 Cardiovascular disease - Angiotensin enelogs-Sercosina on arterial pressure, eldosterone (dogs)
P01HL-06835-17 0060 Cardiovasculer disease - Ventriculer performance experimental models of arterial hypertension (rats, dogs)
P01HL-10342-13 0008 The integrated function of respiration end circulation - Respiratory machenics end the circulation (humen, dogs)
** P01HL-11678-11 0001 Cardiovascular dynamics end their control - Body tluid volumes in the genesis of hypertension (rats, dogs)
P01HL-11678-11 0059 Cardiovescular dynemics and their control - Basic hemodynamics (dogs, rats)
P01HL-11678-11 0065 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (dogs)
P01HL-11678-11 0068 Cardiovascular dynamics and their control - Basic hemodynamics (rats, dogs)
** R01HL-12684-09 Angiotensin I and converting enzyme in hypertension (human, primates, dogs)
R01HL-13408-05 Environmental-genetic interactions in hypertension (rats)
R01HL-14148-07 0007 The regional circulations - Salivary composition in hypertension (human)
P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
P50HL-14217-08 0061 Specialized center of research in thrombosis - Pharmacology--Comparison of platelets and vascular smooth muscle (animal)
P01HL-14388-07 9002 Regulation of the circulation in pathological states - Core immunoassay laboratory (rabbits)
** R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
** R01HL-14456-07 Lung metabolism--Enzymes in the pulmonary circulation (human, animals)
** R01HL-14509-07 Hypertension--Chemistry and biophysics of angiotensin
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
R01HL-14944-07 Renal vascular reactivity in hypertensive patient
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-15758-06 Catecholamine release in the heart (dogs)
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
R01HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
P01HL-16117-05 0008 fon movements and membranes in cardiovascular control - Arterial smooth muscle calcium fluxes and contractility (rabbits)
R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
** R01HL-17401-03 Mechanisms in angiotensin induced hypertension (cats, dogs)
M P01HL-17871-04 Kidney, sodium, cardiac output, arterioles and hypertension
R01HL-17896-03 Oehydropeptide renin substrates
R01HL-18097-04 Pathogenesis of acute renal failure (rats)
R01HL-18259-03 Controlled intratissue release of prostaglandins
P50HL-18323-04 0033 SCOR hypertension center - Core laboratory--Renin, aldosterone and bradykinin methodology
P01HL-18575-03 0005 Mechanisms of vascular changes in hypertension - Renin synthesis in normotensive and hypertensive pigs (also rats, dogs)
R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
R01HL-18749-03 Ventricular mechanics in the overloaded heart (dogs)
R01HL-18862-02 Thirst and its contribution to edema (dogs)
** R01HL-18875-03 Angiotension, prostaglandins, pressure and the kidney (rats)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
** R01HL-19134-04 Angiotensin, prostaglandins, adrenergic interactions (rats, rabbits)
P01HL-19242-02 0007 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (animals)
** P01HL-19242-02 0008 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (rats)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
** R01HL-19320-03 Angiotensin neuropharmacology--Relationship to sodium
R01HL-19517-03 Synthesis ot inhibitors for the study ot renel renin (dogs, monkeys)
R01HL-19538-03 Synthesis ot potential antihypertensive egents
R01HL-19539-03 Pethology ot hypertensive-associated arteritis (rebbits)
R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)
** R01HL-19653-03 Circulatory system effects of engiotensin analogs (rats)
R01HL-19675-02 Coronary phermecoangiography
R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
R01HL-20793-02 Phospholipids and cardiac receptor function
P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
** R01HL-21112-02 Aldosterone binding, clearance, and secretion in man
R01HL-21156-02 Antitrypsin and other causes ot chronic lung disease
R01HL-21274-01 Prorenin--Physiological and biochemical analysis (human)
R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
** R01HL-21568-02 Cell biology of the alveolar-capillary unit (animals)
R01HL-21877-01 Iso-renins in the hypertensive rat
** R23HL-21894-01 Pulmonary angiotensin converting enzyme (cattle)
R01HL-22172-01 Hypotension, renal ischemia and effect ot mannitol (dogs, rats)
R01HL-22216-02 Vascular mechanisms in renal hypertension (dogs)
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)
** R01HL-22896-01 Immediate metabolic fates of kinins and angiotensins (rat, rabbit, guinea pig)

PEPTIDES, VASOACTIVE PEPTIDES, ANGIOTENSIN II

P01HL-03174-23 0001 Mechanisms of acute vascular reaction to injury - Response of the vascular intima to injury (human, rats)
P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel didease--Cell and matrix response (human, mice)
R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
P01HL-06664-17 0043 Cardiopulmonary function in remediable vascular disease - Alveolar hypoxic vasoconstriction--Control and clinical significance (dog, human)
** P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
** P01HL-06835-17 0031 Cardiovascular disease - Synthesis of potent antagonist of pressor action ot angiotensin II (animals)
** P01HL-06835-17 0032 Cardiovascular disease - Synthesis of angiotensin II as inhibitors for aldosterone
** P01HL-06835-17 0033 Cardiovascular disease - Structure-activity relationship of angiotensin II analogs (rats)
** P01HL-06835-17 0039 Cardiovascular disease - Reversibility of vascular changes in renal hypertension (rats)
** P01HL-06835-17 0055 Cardiovascular disease - Vascular and adrenocortical response to angiotensin II (dogs)
P01HL-06835-17 0056 Cardiovascular disease - Angiotensin analogs--Sarcosine on arterial pressure, aldosterone (dogs)
R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
R01HL-09154-14 Central control of distribution ot organ blood flow (monkeys)
R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
R01HL-10182-13 Circulatory function and electrolytic metabolism (dogs, human)
P01HL-10342-13 0024 The integrated function of respiration and circulation - Cytochrome P450 and physiological response to hypoxia (rats)
P01HL-10436-13 0014 A multidisciplinary study ot congenital heart disease - Cardiovascular pharmacology (dog)
** R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis ot experimental renal hypertension (dogs, rabbits, rats)
R01HL-10612-13 0021 Humoral factors in heart failure and hypertension - The control ot aldosterone secretion (dogs)
R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
P01HL-11678-11 0034 Cardiovascular dynamics and their control - Renal function curves in intact dogs
** P01HL-11678-11 0046 Cardiovascular dynamics and their control - Regulation ot aldosterone secretion and related factors (dogs)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

** P01HL-11678-11 0067 Cardiovascular dynamics and their control - Angiotension II, sodium excretion and renal hemodynamics (dogs)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-13315-08 Oisposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
P50HL-14147-08 0012 Specialized center of research in thrombosis - Tissue culture study of arterial cells (human, hamster)
P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
P50HL-14192-08 0005 Specialized center of research in hypertension - New techniques for recognition of renovascular hypertension (human, dogs)
P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in ROS (sheep, cat)
** P01HL-14388-07 0156 Regulation of the circulation in pathological states - Blood pressure with drinking to intracranial angiotensin II injections (rats)
P01HL-14388-07 0178 Regulation of the circulation in pathological states - Structural and functional consequences of denervation (rats)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
** P01HL-14388-07 0186 Regulation of the circulation in pathological states - Angiotension in modulation of neurogenic vasoconstriction
P01HL-14388-07 0207 Regulation of the circulation in pathological states - Brain and renin-angiotension interaction in spontaneous hypertension (rats)
P01HL-14388-07 9002 Regulation of the circulation in pathological states - Core immunoassay laboratory (rabbits)
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
R01HL-14914-06 Autoregulation of glomerular filtration rate (rats)
R01HL-14944-07 Renal vascular reactivity in hypertensive patient
P01HL-14985-07 0012 Adaptation to hypoxia - Oirect effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)
R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
R01HL-17401-03 Mechanisms in angiotensin induced hypertension (cats, dogs)
P50HL-17646-04 0016 Study of ischemic heart disease - Humoral factors in ischemic heart rhythm, mechanical performance (dog, rabbit)
R01HL-17847-04 Cardiovascular and renal functions of marmots
R01HL-18148-04 Adrenal catecholamine secretion
R01HL-18259-03 Controlled intratissue release of prostaglandins
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
P50HL-18323-04 0011 SCOR hypertension center - Endocrine profiling on a selected normal population (human)
P50HL-18323-04 0037 SCOR hypertension center - Adrenocortical factors in childhood hypertension
** P50HL-18323-04 0044 SCOR hypertension center - Angiotensin blockade to identify angiotensin II factor in hypertension (human)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
R01HL-18862-02 Thirst and its contribution to edema (dogs)
** R01HL-18893-03 Mechanism of angiotensin action--Role of receptor (rats)
R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
R01HL-19209-03 Role of AOH in experimental renal hypertension (dogs, rats)
P50HL-19362-02 0010 A/S SCOR--Atherosclerosis in nonhuman primates - Antihypertensive therapy--Atherogenesis in experimental hypertension (baboon)
R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
** R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
R01HL-19538-03 Synthesis of potential antihypertensive agents
R01HL-19653-03 Circulatory system effects of angiotensin analogs (rats)
R01HL-20054-02 Cultured blood vessel cells--Pathophysiology (human, animals)
R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
R01HL-20768-02 Mechanisms of circulatory regulation in heart failure (guinea pigs)
R01HL-20895-03 0010 Cineangiographic studies of cardiovascular system - Cortical necrosis and acute renal failure (human, dogs, rats, rabbits)
R23HL-21066-02 Angiotensin and prostaglandin control of aldosterone (rats)
R01HL-21351-02 Renal and vascular control by sympathetic ganglia (animals)
R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
** R01HL-21799-01 Circumventricular sites of pressor action of angiotensin II (rats)
** R01HL-21800-01 Angiotensin effects on water intake and excretion
** R01HL-22051-01 Role of angiotensin II in vasopressin release (human)
** R01HL-22411-01 Neuroendocrine involvement in hypertension (rats)
** R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)
R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)
** R01HL-22990-01 Angiotensin II receptors--Mechanisms of regulation (rats)

PEPTIDES, VASOACTIVE PEPTIDES, ANGIOTENSINOGEN

** R01HL-15808-06 Role of angiotensinogen in hypertension and stroke (human, rabbits)
** R01HL-18561-03 Radioimmunoassay of angiotensinogen (human)

PEPTIDES, VASOACTIVE PEPTIDES, ANTIRENIN

** R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
** R01HL-17243-05 Cause of chronic experimental renal hypertension (dogs, rabbits)
R01HL-17947-04 Experimental renal and neurogenic hypertension (human, animals)

PEPTIDES, VASOACTIVE PEPTIDES, HYPOTENSIVE PEPTIDES

SEE ALSO PEPTIOES, VASOACTIVE PEPTIDES, KALLIDIN
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
** R01HL-18993-03 Biological investigations of substance P
** R01HL-18994-03 Substance P--Occurrence, pharmacology and physiology (mammals non-human, human)

PEPTIDES, VASOACTIVE PEPTIDES, KALLIDIN

P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
** P01HL-14388-07 0223 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (rats)
** P01HL-14388-07 0224 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (human)
P01HL-14388-07 0230 Regulation of the circulation in pathological states - Effects of indomethacin in patients with carcinoid syndrome
** P60HL-15160-07 0016 Center for sickle cell disease - Kinin and plasmin system in sickle cell disease (human)
** R01HL-15690-07 Hydrolytic enzymes of blood in health and disease (human, animals)
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
** P01HL-15832-06 0010 Chemical-structural predispositions to lung injury - Kinin generating systems in pulmonary disease (human, animals)
** R01HL-16642-05 Biochemistry and pathophysiology of plasma kallikrein (human, animals)
R01HL-17402-04 Mechanism of contact activation of intrinsic clotting (human)
** R01HL-18526-03 Kinins and the human lung
R01HL-18618-04 Purification and function of human HMW kininogen
R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
** R01HL-18882-02 Hormones in hypertension (human)
** R01HL-19836-03 Kinin inhibitors detected by use of receptors (cattle)
R01HL-21544-02 Proteins of coagulation and Hageman factor pathways (human, goats)
** R01HL-22896-01 Immediate metabolic fates of kinins and angiotensins (rat, rabbit, guinea pig)

PEPTIDES, VASOACTIVE PEPTIDES, KALLIDIN-9

R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
R01HL-12684-09 Angiotensin I and converting enzyme in hypertension (human, primates, dogs)
R01HL-13315-08 Oisposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
** R01HL-13909-27 Physiochemistry and immunology of macromolecules
P50HL-14153-07 0013 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary mechanics and mediators of allergic reactions (guinea pigs, human)
** P50HL-14153-07 0015 Johns Hopkins Lung Center--Chronic diseases of airways - Kinins and human lung
P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in ROS (sheep, cat)
P01HL-14388-07 0157 Regulation of the circulation in pathological states - Autoregulation of renal blood flow and distribution in sodium excretion control
P01HL-14388-07 0230 Regulation of the circulation in pathological states - Effects of indomethacin in patients with carcinoid syndrome
R01HL-14456-07 Lung metabolism--Enzymes in the pulmonary circulation (human, animals)
P60HL-15160-07 0016 Center for sickle cell disease - Kinin and plasmin system in sickle cell disease (human)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
** P01HL-15832-06 0010 Chemical-structural predispositions to lung injury - Kinin generating systems in pulmonary disease (human, animals)
R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)
** R01HL-16642-05 Biochemistry and pathophysiology of plasma kallikrein (human, animals)
P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
P01HL-17382-05 0003 Chemical mediators of acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
R01HL-17768-04 Oevelopment of collateral ventilation (dogs, fish, horses)
** R01HL-18259-03 Controlled intratissue release of prostaglandins
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
** P50HL-18323-04 0033 SCOR hypertension center - Core laboratory--Renin, aldosterone and bradykinin methodology
R01HL-18618-04 Purification and function of human HMW kininogen
** R01HL-18624-03 Study of kinins in hypertension and other diseases (human)
R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
R01HL-18936-02 Heart preservation and transplantation studies (rat)
R01HL-19229-02 Prostaglandins and hypertension (human, rats, dogs, rabbits)
** R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
R01HL-19455-03 Role of endothelial cells in vascular permeability (tissue culture)
** R01HL-19836-03 Kinin inhibitors detected by use of receptors (cattle)
R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
** R01HL-21568-02 Cell biology of the alveolar-capillary unit (animals)
R01HL-22177-02 Mechanisms of control of pulmonary smooth muscle (dogs)
R01HL-22561-01 Hormonal control of mesenteric circulation (cats)
** R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)

PEPTIDES, VASOACTIVE PEPTIDES, KALLIKREIN

R01HL-01661-27 Hemostatic mechanisms (human)
P01HL-06314-17 0062 Immunologic mechanisms in cardiovascular disease - Immunologic renal vascular disease (human, animals)
R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-14153-07 0014 Johns Hopkins Lung Center-Chronic diseases of airways - Mediator release in asthma (human)
** P50HL-14153-07 0015 Johns Hopkins Lung Center--Chronic diseases of airways - Kinins and human lung
P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
** P01HL-14388-07 0223 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (rats)
** P01HL-14388-07 0224 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (human)
P01HL-14388-07 0230 Regulation of the circulation in pathological states - Effects of indomethacin in patients with carcinoid syndrome
P60HL-15160-07 0016 Center for sickle cell disease - Kinin and plasmin system in sickle cell disease (human)
R01HL-15690-07 Hydrolytic enzymes of blood in health and disease (human, animals)
** R01HL-15839-05 Physiological role of isorenin and kallikrein (animals)
P01HL-16411-04 0002 Blood systems in coagulation and vessel disease - Early stages of coagulation and cardiovascular disease (human, rabbits)
** R01HL-16642-05 Biochemistry and pathophysiology of plasma kallikrein (human, animals)
P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
R01HL-17402-04 Mechanism of contact activation of intrinsic clotting (human)
** R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
** R01HL-18507-03 Clinical studies of Fletcher factor (human)
R01HL-18526-03 Kinins and the human lung
P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
** R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
** R01HL-18618-04 Purification and function of human HMW kininogen
** R01HL-18624-03 Study of kinins in hypertension and other diseases (human)
P01HL-18827-02 0002 Platelet vessel wall interactions in thrombogenesis - Interactions of vessel wall macromolecules with factor XII (human, rats)
P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
** R01HL-18882-02 Hormones in hypertension (human)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
** R01HL-19374-03 Pharmacology of kinins in cardiovascular disease (rats, rabbits)
** R01HL-19870-03 Hypertensive progeny--Physical and humoral precursor search
** R01HL-20594-02 Renal enzymes that regulate blood pressure (human, rats)
R01HL-20846-02 Purification of bovine plasminogen proactivator
R01HL-21544-02 Proteins of coagulation and Hageman factor pathways (human, goats)
R01HL-21975-01 Studies on normal and abnormal factor IX (human, dogs, cows)
R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
R01HL-22298-02 Origins of hypertension (human)
** R01HL-22939-01 Human kinin and fibrinolytic systems and renal disease (human)
R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)
** N01HV-72943-01 Prostaglandin and kallikrein kinin system antagonists
** N01HV-72944-02 Prostaglandin and kallikrein kinin antagonists
** N01HV-72946-02 Development of kallikrein--Kinin system antagonists

PEPTIDES, VASOACTIVE PEPTIDES, RENIN

SEE ALSO ADRENAL GLANDS DISORDERS, HYPOALDOSTERONISM, HYPORENINEMIC
R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
P01HL-06835-17 0034 Cardiovascular disease - Studies of phospholipase A2 in serum (rats, dogs)
** P01HL-06835-17 0036 Cardiovascular disease - Purification of dog renin
P01HL-06835-17 0038 Cardiovascular disease Effect of chronic administration of angiotensin antagonist (rats)
** P01HL-06835-17 0045 Cardiovascular disease Pressure-volume-renin relationship in human hypertension
** P01HL-06835-17 0046 Cardiovascular disease Renin activity during salt depletion in essential hypertension (human)
** P01HL-06835-17 0049 Cardiovascular disease - Selective hypoaldosteronism (human)
P01HL-06835-17 0050 Cardiovascular disease - 18-Hydroxylase block in the 17 alpha-hydroxylase deficiency syndrome (human)
P01HL-06835-17 0057 Cardiovascular disease - Studies on cardiac hypertrophy
P01HL-06835-17 0059 Cardiovascular disease - Metyrapone-induced hypertension in dog
R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
** P01HL-08682-15 0026 Regulation of the cardiovascular system - Hypertension--High renin vs low renin (dog)
** P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation of renal function (dogs)
** R01HL-10612-13 0020 Humoral factors in heart failure and hypertension - The control of renin release in the dog
P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension
P01HL-11678-11 0051 Cardiovascular dynamics and their control - Transient glomerular filtration dynamics (dogs)
P01HL-12738-10 0111 Physiologic pharmacology and its clinical applications - Cardiovascular pharmacology (dogs)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)
R01HL-13408-05 Environmental-genetic interactions in hypertension (rats)
R01HL-13587-06 Synthesis of renin inhibitors and analog phosphatides (rats)
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
** R01HL-13917-20 Secretion and effects of adrenal hormones (human, rabbits, sheep)
R01HL-14148-07 0007 The regional circulations - Salivary composition in hypertension (human)
R01HL-14148-07 0008 The regional circulations - Renal circulation in hypertensive patients (also dogs)
P50HL-14159-08 0008 Specialized center of research in hypertension - Renal function and sodium metabolism in hypertension (rats, human, rabbits)
** P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
P50HL-14159-08 0022 Specialized center of research in hypertension - Core laboratory
P50HL-14192-08 0002 Specialized center of research in hypertension - Hypertensive patients with renal artery stenosis
** P50HL-14192-08 0003 Specialized center of research in hypertension - Prostaglandins as mediators of renin secretion (human, dog)
** P50HL-14192-08 0004 Specialized center of research in hypertension - Isolation and characterization of pure renin (swine, rats, human, rabbits)
** P50HL-14192-08 0005 Specialized center of research in hypertension - New techniques for recognition of renovascular hypertension (human, dogs)
P50HL-14192-08 0007 Specialized center of research in hypertension - Role of new mineralocorticoids in hypertension (human, rats)
P01HL-14388-07 0157 Regulation of the circulation in pathological states - Autoregulation of renal blood flow and distribution in sodium excretion control
P01HL-14388-07 9002 Regulation of the circulation in pathological states - Core immunoassay laboratory (rabbits)
** R01HL-15837-06 Renin and cardiac hypertrophy in hypertension (rats)
** R01HL-15839-05 Physiological role of isorenin and kallikrein (animals)
R01HL-16918-05 Role of steroids in hypertension (human)
** R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
** R01HL-17896-03 Dehydropeptide renin substrates
** R01HL-18019-04 The endocrine kidney in hypertension (mice)
P50HL-18318-03 0004 Pathogenesis and complications of hypertension - Steroid and renin profiles in hypertension (rats, human)
P50HL-18318-03 0011 Pathogenesis and complications of hypertension - Adrenergic function--Renin and mineralocorticoid activity (human)
P50HL-18318-03 0013 Pathogenesis and complications of hypertension - Humoral factors and renal function in human hypertension
** P50HL-18318-03 0018 Pathogenesis and complications of hypertension - Plasma renin activity in chronic ischemic heart disease (human)
P50HL-18323-04 0011 SCOR hypertension center Endocrine profiling on a selected normal population (human)
P50HL-18323-04 0012 SCOR hypertension center Renin as a risk factor (human)
** P50HL-18323-04 0033 SCOR hypertension center Core laboratory--Renin, aldosterone and bradykinin methodology
P50HL-18323-04 0042 SCOR hypertension center Blood viscosity and blood volume in hypertensive disease (human, dog)
** P50HL-18323-04 0045 SCOR hypertension center Laboratory programs--Prorenin (human)
P50HL-18323-04 0046 SCOR hypertension center - Coronary artery bypass surgery Associated hypertension (human)
P50HL-18323-04 0047 SCOR hypertension center Transcendental meditation and self-hypnosis--Hypertension treatment (human)
R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)
R01HL-18561-03 Radioimmunoassay of angiotensinogen (human)
** P01HL-18575-03 0005 Mechanisms of vascular changes in hypertension - Renin synthesis in normotensive and hypertensive pigs (also rats, dogs)
** R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
R01HL-18862-02 Thirst and its contribution to edema (dogs)
R01HL-18891-02 Electrolyte intake and blood pressure in hypertension (human)
R01HL-18948-03 Pulseless flow and circulatory assistance (dogs, calves)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
R01HL-19229-02 Prostaglandins and hypertension (human, rats, dogs, rabbits)
R01HL-19246-03 Regression of cardiac hypertrophy--Myocardial and renal (human)
P50HL-19362-02 0010 A/S SCOR--Atherosclerosis in nonhuman primates - Antihypertensive therapy--Atherogenesis in experimental hypertension (baboon)
** R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
** R01HL-19517-03 Synthesis of inhibitors for the study of renal renin (dogs, monkeys)
R01HL-19539-03 Pathology of hypertensive-associated arteritis (rabbits)
R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)
R01HL-19653-03 Circulatory system effects of angiotensin analogs (rats)
** R01HL-20189-01 Effects of renin on atherogenesis (rabbits)
** R01HL-20278-02 Cellular mechanisms of renin secretion (rats)
** R01HL-20594-02 Renal enzymes that regulate blood pressure (human, rats)
R01HL-21112-02 Aldosterone binding, clearance, and secretion in man
R01HL-21210-01 Acute renal failure following cardiac surgery (human)
** R23HL-21247-02 Purification of renal renin (human)
** R01HL-21274-01 Prorenin--Physiological and biochemical analysis (human)
** R01HL-21308-01 Prostaglandins and local control of the circulation (rats, dogs)
** R01HL-21877-01 Iso-renins in the hypertensive rat
** R01HL-22288-01 Renin and precursors--Structure and function (mice)
R01HL-22298-02 Origins of hypertension (human)
** R01HL-22390-01 Effect of chloride on renin (rats, dogs)
** R23HL-22728-01 Neural control of renin secretion (dogs)
** R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

PEPTIDES, VASOACTIVE PEPTIDES, RENIN-ANGIOTENSIN SYSTEM

R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
R01HL-03303-21 Factors regulating electrolyte excretion by the kidney (human, dogs)
P01HL-06835-17 0037 Cardiovascular disease - Cardiac hypertrophy in spontaneously hypertensive rat
P01HL-06835-17 0038 Cardiovascular disease - Effect of chronic administration of angiotensin antagonist (rats)
R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
P01HL-08682-15 0026 Regulation of the cardiovascular system - Hypertension--High renin vs low renin (dog)
R01HL-10182-13 Circulatory function and electrolytic metabolism (dogs, human)
M R01HL-10612-13 Humoral factors in heart failure and hypertension
** R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
** R01HL-10612-13 0019 Humoral factors in heart failure and hypertension - Pathogenesis of hypertension in the spontaneous hypertensive rat

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.
M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-10612-13 0021 Humoral factors in heart failure and hypertension - The control of aldosterone secretion (dogs)
** R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
M P01HL-11678-11 Cardiovascular dynamics and their control
P01HL-11678-11 0040 Cardiovascular dynamics and their control - Control of plasma potassium concentration (dogs)
P01HL-11678-11 0046 Cardiovascular dynamics and their control - Regulation of aldosterone secretion and related factors (dogs)
** P01HL-11678-11 0063 Cardiovascular dynamics and their control - Renin-angiotensin system--Control of renal hemodynamics, electrolyte excretion
P01HL-11678-11 0064 Cardiovascular dynamics and their control - Renal medulla--Control of renal hemodynamics, electrolyte excretion (dogs)
P01HL-11678-11 0067 Cardiovascular dynamics and their control - Angiotension II, sodium excretion and renal hemodynamics (dogs)
R01HL-12677-10 Surgical physiologic studies of isolated kidneys (dogs, rats)
** R01HL-12684-09 Angiotensin I and converting enzyme in hypertension (human, primates, dogs)
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-13587-06 Synthesis of renin inhibitors and analog phosphatides (rats)
** R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
R01HL-13634-08 Renal hypertension in pregnancy (sheep)
R01HL-13917-20 Secretion and effects of adrenal hormones (human, rabbits, sheep)
R01HL-13929-06 Single nephron response to chronic obstruction (frogs, rats)
P50HL-14159-08 0021 Specialized center of research in hypertension - Genetic studies of the physiology of hypertension (human, rats)
** R01HL-14306-07 Quantification of arterial pressure control (dogs)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-14388-07 0186 Regulation of the circulation in pathological states - Angiotension in modulation of neurogenic vasoconstriction
** P01HL-14388-07 0188 Regulation of the circulation in pathological states - Renin-angiotensin system in the sheep fetus
** P01HL-14388-07 0207 Regulation of the circulation in pathological states - Brain and renin-angiotension interaction in spontaneous hypertension (rats)
P01HL-14388-07 0223 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (rats)
P01HL-14388-07 0224 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (human)
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
** R01HL-14509-07 Hypertension--Chemistry and biophysics of angiotensin
R01HL-14914-06 Autoregulation of glomerular filtration rate (rats)
R01HL-14944-07 Renal vascular reactivity in hypertensive patient
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
** R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
** R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
R01HL-15808-06 Role of angiotensinogen in hypertension and stroke (human, rabbits)
** R01HL-15839-05 Physiological role of isorenin and kallikrein (animals)
R01HL-16496-04 Prostaglandins and renin experimental hypertension (rabbits)
R01HL-16642-05 Biochemistry and pathophysiology of plasma kallikrein (human, animals)
R01HL-17243-05 Cause of chronic experimental renal hypertension (dogs, rabbits)
** R01HL-17366-05 Mechanisms in the production of renal hypertension (rabbits, dogs)
R01HL-17401-03 Mechanisms in angiotensin induced hypertension (cats, dogs)
R01HL-17403-03 Metabolic control of cardiac output (dogs)
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
R01HL-17847-04 Cardiovascular and renal functions of marmots
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
** R01HL-17947-04 Experimental renal and neurogenic hypertension (human, animals)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R01HL-18019-04 The endocrine kidney in hypertension (mice)
R01HL-18027-03 New vasoactive factors and their role in hypertension (human, dogs, rats)
P50HL-18318-03 0001 Pathogenesis and complications of hypertension - Core clinical program
P50HL-18318-03 0003 Pathogenesis and complications of hypertension - Core biochemical laboratory
P50HL-18318-03 0013 Pathogenesis and complications of hypertension - Humoral factors and renal function in human hypertension
P50HL-18318-03 0014 Pathogenesis and complications of hypertension - Arterial metabolism and atherogenesis (rat, rabbit)
** P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
M P50HL-18323-04 SCOR hypertension center
** P50HL-18323-04 0011 SCOR hypertension center - Endocrine profiling on a selected normal population (human)
** P50HL-18323-04 0012 SCOR hypertension center - Renin as a risk factor (human)
P50HL-18323-04 0037 SCOR hypertension center - Adrenocortical factors in childhood hypertension
** P50HL-18323-04 0043 SCOR hypertension center - Pharmacology--Renin-aldosterone mechanisms in essential hypertension (human)
P50HL-18323-04 0044 SCOR hypertension center - Angiotensin blockade to identify angiotensin II factor in hypertension (human)
** P50HL-18323-04 0046 SCOR hypertension center - Coronary artery bypass surgery--Associated hypertension (human)
** R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)
P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
P01HL-18575-03 0011 Mechanisms of vascular changes in hypertension - Chemistry laboratory core facility
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
R01HL-18624-03 Study of kinins in hypertension and other diseases (human)
R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
** R01HL-18862-02 Thirst and its contribution to edema (dogs)
** R01HL-18882-02 Hormones in hypertension (human)
P01HL-18974-03 0006 Experimental neurogenic hypertension program - Model of sustained arterial hypertension (cats)
R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
R01HL-19134-04 Angiotensin, prostaglandins, adrenergic interactions (rats, rabbits)
** R01HL-19209-03 Role of ADH in experimental renal hypertension (dogs, rats)
R01HL-19320-03 Angiotensin neuropharmacology--Relationship to sodium
R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
** R01HL-19467-03 Regulation of blood pressure (rats, dogs)
** R01HL-19825-02 Renin-volume interactions in coarctation hypertension (dogs)
** R01HL-20455-03 Role of systemic hypertension on diabetic retinopathy (human)
M R01HL-20572-02 Hemodynamic relations to metabolism in hypertension
R01HL-20572-02 0003 Hemodynamic relations to metabolism in hypertension - Cardiac output and organ blood flow in hypertension (rats)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
** R23HL-21066-02 Angiotensin and prostaglandin control of aldosterone (rats)
** R01HL-21092-02 Factors other than renin in renal hypertension (rats)
** R23HL-21291-02 Renin-mineralocorticoid axis in hypertensive diabetics (human)
R01HL-22051-01 Role of angiotensin II in vasopressin release (human)
R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
R01HL-22387-01 Metalloenzymes and disease
R23HL-22438-01 The etiology of genetic hypertension (rats)
R23HL-22728-01 Neural control of renin secretion (dogs)
** R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
R01HL-23201-01 Mechanisms of hypertension (human, rats)
R01HL-23600-01 Ions, water, and hypertension (human, dogs, rats)

PEPTIDES ANALOGS
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
R01HL-18679-04 Synthetic protease inhibitors
** R01HL-18993-03 Biological investigations of substance P
R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
R01HL-22387-01 Metalloenzymes and disease

PEPTIDES STRUCTURE
SEE PROTEINS-PEPTIDES STRUCTURE

PEPTIDES TEMPLATES
SEE NUCLEIC ACIDS, MRNA

PERCEPTION
SEE SENSORY-PERCEPTUAL PROCESSES, PERCEPTION

PERCEPTION-MEDITATION CONTINUUM
SEE PSYCHIC ACTIVITY LEVEL, TROPHOTROPIC STATE

PERFORMANCE, MENTAL
SEE PSYCHOLOGY, PERFORMANCE

PERFUSION
SEE DOSAGE AND ROUTE, PERFUSION

PERICARDIOTOMY
SEE HEART SURGERY, PERICARDIOTOMY

PERICARDITIS
SEE HEART DISORDERS, PERICARDITIS

PERINATAL
SEE PREGNANCY, PERINATAL

PERINATAL CARE
SEE HEALTH CARE SERVICES, MATERNAL AND INFANT CARE

PERINATAL DISTRESS SYNDROME
SEE CONGENITAL ABNORMALITIES, RESPIRATORY DISTRESS SYNDROME

PERIPHERAL NERVES (GENERAL)
SEE NERVOUS SYSTEM, PERIPHERAL NERVES (GENERAL)

PERIPHERAL NEUROPATHY
SEE NERVOUS DISORDERS PERIPHERAL

PERIPHERAL VASCULAR DISORDERS
SEE CARDIOVASCULAR DISORDERS, PERIPHERAL VASCULAR DISORDERS

PERIPHERAL VASCULAR SYSTEM
SEE CARDIOVASCULAR SYSTEM, PERIPHERAL VASCULAR SYSTEM

PERITONEAL DISORDERS
SEE BODY CAVITY DISORDERS, PERITONEAL

PERITONEAL FLUID
SEE BODY CAVITY DISORDERS, PERITONEAL

PERITONEUM
SEE BODY CAVITIES, PERITONEUM

PERMEABILITY
SEE BIOLOGICAL TRANSPORT, MEMBRANE PERMEABILITY AND TRANSPORT
SEE CARDIOVASCULAR SYSTEM, ENDOTHELIUM PERMEABILITY

PERMEASES
SEE BIOLOGICAL TRANSPORT, TRANSPORT PROTEINS, PERMEASES

PEROXIDASE LABELED ANTIBODY TECHNIQUE
SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, PEROXIDASE LABELED ANTIBODY*

PEROXIDASES
SEE ALSO METALLOPROTEINS, CYTOCUPREINS
R01HL-12526-09 Raman spectra of heme proteins and related molecules
R01HL-13651-07 X-ray photoelectron spectroscopy of heme compounds
R01HL-13652-08 Metal sites in metalloproteins (mushroom)
P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
R01HL-14508-10 Structure and function of respiratory hemoproteins
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
R01HL-22252-01 Synthesis of labeled hemes for protein NMR studies
P01HL-22602-01 0002 Pathophysiology of the endothelium - Molecular charge and endothelial permeability (rats, mice)

PEROXIDASES, CATALASE
SEE ALSO METABOLIC DISORDERS INBORN, ACATALASEMIA
R01HL-02558-22 Structure-function relationships in the heme proteins (human, cattle)
P01HL-09011-15 0015 A research and resource program in blood - Regulation of synthesis and transport of diverse proteins in liver (rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Observed significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-12526-09 Raman spectra of hema proteins and related molecules
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
R01HL-20352-02 Defenses of lung cells against oxygen toxicity (human, animals)

PEROXIDASES, GLUTATHIONE PEROXIDASE
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
** R01HL-18502-03 Enzymatic regulation of platelet function (human)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)

PEROXIDASES, LACTOPEROXIDASE
R01HL-02558-22 Structure-function relationships in the heme proteins (human, cattle)
R01HL-16490-04 Structural basis of nephron filtration (rats, rabbits)

PEROXIDES
SEE ALSO LIPIDS, OXIDIZED LIPIDS, LIPID PEROXIDES
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-16489-04 Renal prostaglandins–Synthesis and function (human, dogs, rats)
P01HL-17871-04 0010 Kidney, sodium, cardiac output, arterioles and hypertension - Renal prostaglandins metabolism in hypertension (rats, dogs)
** R01HL-17921-04 Peroxy radicals to prostaglandins in vessels and lung
** R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18259-03 Controlled intratissue release of prostaglandins
R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
P01HL-18827-02 0003 Platelet vessel wall interactions in thrombogenesis - Tumor cell and platelets in thrombogenesis and metastasis (human, animals)
P01HL-19242-02 0004 Study of vascular smooth muscle - Cyclic nucleotide metabolism in smooth muscle cultures (human, rats)
P01HL-19717-02 0007 Response of the lung to injury - Cellular level studies of prostaglandin-like molecules (cattle)
R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
R01HL-20783-02 Airway reactivity–B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
** R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease

PEROXIDES, HYDROGEN PEROXIDE
P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)
P50HL-15061-07 0009 Response of lung to injury - Alveolar macrophages (human, rabbits)
P50HL-15061-07 0012 Response of lung to injury - Hyperbaric oxygen, carbon monoxide, and ozone or peroxide toxicity (rats)
R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)

PEROXISOMES
SEE CELL COMPONENTS, PEROXISOMES

PERPHENAZINE
SEE PHENOTHIAZINES, PERPHENAZINE

PERSANTINE
SEE DIAZINODIAZINES, DIPYRIDAMOLE

PERSONAL CARE INSTITUTIONS
SEE HEALTH CARE FACILITIES, RESIDENTIAL

PERSONALITY
SEE PSYCHOLOGY, PERSONALITY

PERSONALITY ASSESSMENT-MEASUREMENT
SEE PSYCHOLOGICAL TESTS, PERSONALITY ASSESSMENT-MEASUREMENT*

PERSONNEL
SEE CHILD WELFARE, CHILD CARE PERSONNEL

PERSPIRATION
SEE SKIN SECRETIONS, SWEAT

PERSUASION
SEE PSYCHOLOGY, PERSUASION

PERU
SEE GEOGRAPHICAL SITES, S. AMERICA, PERU

PESTICIDES
SEE ALSO COMMUNICABLE DISEASE CONTROL AGENTS, ANTIFUNGAL
P01HL-14388-07 9004 Regulation of the circulation in pathological states - Core biostatistics unit

PESTICIDES, HERBICIDES, PARAQUAT
P01HL-06370-17 0006 Cardiopulmonary and renal pathology research center - Chemical basis of ultrastructural changes in disease (rats)
P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
R01HL-19720-03 Evaluation of anti-fibrotic agents in pulmonary fibrosis (rats)
R01HL-23969-01 Surfactant synthesis by type II cells in vitro (rats)

PESTICIDES, INSECTICIDES, CHLORINATED HYDROCARBON INSECTICIDES, DDT
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)

PESTICIDES BIOLOGICAL EFFECTS (GENERAL)
R01HL-19720-03 Evaluation of anti-fibrotic agents in pulmonary fibrosis (rats)

PETT
SEE RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING, POSITRON AXIAL TOMOGRAPHY*

PH
SEE BODY FLUID BALANCE, ACID-BASE

PH (HYDROGEN ION CONCENTRATION)
SEE ACIDS-BASES, HYDROGEN-ION CONCENTRATION

PHAGOCYTE DYSFUNCTION OF LEUKOCYTES (GENERAL)
SEE BLOOD AND RE DISORDERS, LEUKOCYTE DISORDERS, PHAGOCYTE DYSFUNCTION (GENERAL)

PHAGOCYTES
SEE CELLS, PHAGOCYTES

PHAGOCYTOSIS
SEE CELL INGESTION, PHAGOCYTOSIS

PHANTOM MODELS
SEE MODELS, PHANTOM

PHARMACOGENETICS
SEE GENETICS, PHARMACOGENETICS*

PHARMACOLOGY
SEE DRUGS, PHARMACOLOGY

PHARMACOLOGY, BIOCHEMICAL
SEE DRUGS, PHARMACOLOGY, BIOCHEMICAL

PHARMACOLOGY STUDY SECTION
** R01HL-01813-25 Regulation of metabolism by drugs and hormones (rats)
** R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)
** R01HL-02953-17 Autonomic and cardiovascular pharmacology (rats, rabbits, dogs, guinea pigs)
** R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
** R01HL-08311-14 Effects of drugs upon myocardial hypoxia (dogs, turtles)
** R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
** R01HL-08570-15 Pharmacologic and reflex influence on vascular tone (dogs, rabbits)
** R01HL-09283-14 Pharmacology of molluscan hearts (also rabbits)
** R01HL-12186-09 Calcium transients in striated muscle and other cells (mammals, frogs)
** R01HL-12647-08 Inactivation of norepinephrine in vascular tissue
** R01HL-12648-09 Catecholamine metabolism in hypertensive diseases (human)
** R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
** R01HL-13187-09 Central neural control of cardiovascular function (cats)
** R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
** R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
** R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
** R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
** R01HL-14397-07 Hypertension–Angiotensin and prostaglandin pharmacology (animals)
** R01HL-14775-08 Mechanisms of drug action in vascular smooth muscle (dog, rabbits)
** R01HL-15392-06 Autonomic and circulatory actions of anesthetics (dog, cat, rabbit, monkey)
** R01HL-15447-06 Vascular role of prostaglandin and cyclic nucleotides (rats)
** R01HL-15696-06 Mechanism and role of cyclic GMP in heart (animals)
** R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
** R01HL-15805-06 Cerebral arterial tone and reactivity (rabbits)
** R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
** R01HL-15991-05 Evaluation of heart stimulants in sea anemones
** R01HL-16003-08 Sources and roles of calcium in smooth muscle excitation (rats)
** R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
** R01HL-16318-21 Biochemistry and pharmacology of Na-K transport
** R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)
** R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)
** R01HL-16611-04 Digitalis-receptor of the heart (guinea pigs, rats)
** R01HL-17401-03 Mechanisms in angiotensin induced hypertension (cats, dogs)
** R01HL-17451-05 Digitalis effects on cardiac automaticity mechanisms
** R01HL-17452-04 Depolarization induced cardiac automaticity (human, animals)
** R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
** R01HL-17796-04 Importance of aminosugars in digitalis activity (cats, rabbits)
** R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
** R01HL-18148-04 Adrenal catecholamine secretion
** R01HL-18199-03 Effects of ions on vascular reactivity
** R01HL-18259-03 Controlled intratissue release of prostaglandins
** R01HL-18260-04 Cyclic nucleotide metabolism in lung tissue (cattle)
** R01HL-18598-03 Role of Na, K-ATPase inhibition on digitalis action
** R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
** R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
** R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)
** R01HL-18657-03 Pharmacologic studies on neurogenic digitalis effects (human, cats, dogs)
** R01HL-19044-03 Effect of drugs on development of cardiac failure (cats)
** R01HL-19062-03 Pharmacologic control of mast cell phosphodiesterase (human, rats)
** R01HL-19129-04 Cardiac glycosides–Mechanisms of cellular actions
** R01HL-19325-03 Phosphodiesterase inhibition and muscle contraction
** R01HL-19517-03 Synthesis of inhibitors for the study of renal renin (dogs, monkeys)
** R01HL-19653-03 Circulatory system effects of angiotensin analogs (rats)
** R01HL-19772-02 Role of warfarin metabolism in antivitamin K activity (rats)
** R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
** R01HL-20194-01 Brain catecholamines in control of blood pressure (rats)
** R01HL-20262-02 Cardiac glycosides and the mechanism of the sodium-potassium pump
** R01HL-20339-02 Vascular alpha-adrenergic receptor molecular properties
** R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
** R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
** R01HL-20793-02 Phospholipids and cardiac receptor function
** R01HL-20859-02 Beta adrenergic catecholamine receptor
** R01HL-20956-02 Early events following stimulation of human platelets
** R23HL-21051-02 Adrenergic receptors and the adenylate cyclase system (frog RBC)
** R01HL-21052-01 Evaluation of a digitalis therapy advisor
** R23HL-21083-02 Pharmacokinetics of digoxin and digitoxin in humans (rats)
** R01HL-21105-02 Organ specific drugs--Cardiovascular and renal effects (dogs)
** R23HL-21151-02 Ischemic myocardium–Delivery of blood flow and drugs (dogs)
** R23HL-21196-02 Digitalis induced arrhythmia and NAD KO-atpase activity (dogs)
** R01HL-21221-02 Clinical antiarrhythmic and pharmacodynamic studies
** R01HL-21239-02 Isolation and mechanism of action of thromboxane A2 (human, rabbits)
** R23HL-21320-02 Cyclic nucleotide metabolism in vascular endothelium

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
** R01HL-21476-02 Anticoagulant drug absorption interactions (rats)
** R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
** R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
** R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
** R01HL-21799-01 Circumventricular sites of pressor action of angiotensin II (rats)
** R01HL-21800-01 Angiotensin effects on water intake and excretion
** R01HL-21817-01 Catecholamines, blood pressure and circulation
** R01HL-21860-18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)
** R01HL-21995-01 Protein phosphorylation and adrenergic effects
** R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
** R01HL-22026-01 Endogenous prostaglandins in asthma
** R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
** R01HL-22136-02 Histamine and cardiac adenyl cyclase
** R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)
** R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
** R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
** R01HL-22522-01 Cardioselectivity of beta-adrenoceptor antagonists
** R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
** R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
** R01HL-22685-01 Drugs and excitation-contraction coupling in heart (animals)
** R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)
** R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)
** R23HL-22882-01 Modulation by disease of effect of furosemide in man
** R01HL-23726-01 Treatment of ventricular arrhythmias with propranolol (human)
** R01HL-23980-01 Effects of digoxin therapy in newborn and adult sheep
** R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

PHARYNX
SEE ORAL-PHARYNGEAL, PHARYNX

PHENACETIN
SEE PHENYLAMIDES, ACETOPHENETIDIN

PHENANTHRO(4,5BCD)FURAN-8,9C-IMINOETHANO
SEE ALKALOIDS, MORPHINES

PHENELZINE
SEE AZO COMPOUNDS, HYDRAZINES, PHENELZINE

PHENETHYLAMINES
SEE PHENYLALKYLAMINES, PHENETHYLAMINES (GENERAL)

PHENETHYLBIGUANIDE
SEE GUANIDINES, BIGUANIDES, PHENETHYLBIGUANIDE

PHENETHYLFORMAMIDINYLIMINOUREA
SEE GUANIDINES, BIGUANIDES, PHENETHYLBIGUANIDE

PHENFORMIN
SEE GUANIDINES, BIGUANIDES, PHENETHYLBIGUANIDE

PHENOBARBITAL
SEE PYRIMIDINES, BARBITURATES, PHENOBARBITAL

PHENOLASE
SEE OXYGENASES, MONOPHENOL MONOOXYGENASE

PHENOLIC AMINES, NEOSYNEPHRINE
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
R01HL-13375-09 Cellular potential changes causing cardiac arrhythmias (dogs)
R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)

PHENOLIC AMINES, TYRAMINE
R01HL-05883-18 0003 Reflex control of resistance and capacitance vessels - Cardiac glycosides and sympathetic nerve terminals in vascular smooth muscle
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
R23HL-22728-01 Neural control of renin secretion (dogs)
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)

PHENOL OXIDASE (MONOPHENOL MONOOXYGENASE)
SEE OXYGENASES, MONOPHENOL MONOOXYGENASE

PHENONES, PHLORETIN
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-23183-01 Voltage dependent conductance in membranes

PHENOTHIAZINES
R01HL-13909-27 Physiochemistry and immunology of macromolecules
R01HL-14820-07 Factors affecting physiology of biological membranes (human)

PHENOTHIAZINES, CHLORPROMAZINE
R01HL-13909-27 Physiochemistry and immunology of macromolecules
R01HL-15722-06 Hemorrheology studies related to in vivo blood flow (human)
P50HL-17651-04 0045 Ischemic heart disease specialized center of research - Peripheral vascular studies--Pharmacology (dogs, human)
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)

PHENOTHIAZINES, PERPHENAZINE
P01HL-12738-10 0042 Physiologic pharmacology and its clinical applications - Centrogenic cardiac arrhythmias (cats)

PHENOTHIAZINES, PROCLORPERAZINE
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)

PHENOTHIAZINES, PROMETHAZINE
R23HL-21203-02 Effect of vasoactive agents on left-to-right shunts (lambs)

PHENOTYPE
SEE GENETICS, GENES, GENE EXPRESSION

PHENOXYACETIC ACIDS, 2,3-DICHLORO-4-(2-METHYLBUTYL)PHENOXYACETIC ACID
P01HL-06664-17 0039 Cardiopulmonary function in remediable vascular disease - Transepithelial active transport and cell volume regulation (frogs)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
** P01HL-14388-07 0225 Regulation of the circulation in pathological states - Release of renal prostaglandins by saluretic-diuretic agents (dogs)

PHENOXYACETIC ACIDS, HALOFENATE
P50HL-14141-05 0003 SCOR for atherosclerosis in childhood - Detection of abnormalities in lipid metabolism (human, rabbits, rats)

PHENOXYBENZAMINE
SEE PHENYLALKYLAMINES, BENZYLAMINES, PHENOXYBENZAMINE

PHENOXYCARBOXYLATES, CLOFIBRATE
R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)
R01HL-08888-12 Cooperative study of drugs and coronary heart disease (men)
R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)
R01HL-11901-12 0006 Effects of metabolic surgery on the hyperlipidemias - Drug therapy with ileal bypass (rabbits)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
** R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
P50HL-14141-05 0003 SCOR for atherosclerosis in childhood - Detection of abnormalities in lipid metabolism (human, rabbits, rats)
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
P50HL-14230-07 0093 A/S SCOR--Lipids, atherosclerosis and thrombosis - Clinical studies involving cellular lipid content (human)
P50HL-14236-05 0009 Prevention of premature arteriosclerosis - Clinical studies on cholesterol metabolism (human)
P50HL-14237-07 0006 Support for arteriosclerosis center - Drug treatment of familial hyperbetalipoproteinemia (human)
R01HL-15308-07 Assays for peptides of lipoproteins (human)
R01HL-15374-03 Cooperative study of drugs and coronary heart disease (human)
R01HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)
R01HL-18887-03 Hypolipidemic drugs--Effects on FFA-albumin association (human, cattle)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
R01HL-19112-03 Atherosclerosis studies (monkeys)
R01HL-19936-02 Unsaturated fatty acid biosynthesis in the aorta (rats)
** R01HL-20909-02 Clofibrate-enhanced lipid oxidation by peroxisomes (rats)
P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)

PHENTOLAMINE
SEE IMIDAZOLES, PHENTOLAMINE

PHENYLALANINE
SEE CYCLIC AMINO ACIDS, PHENYLALANINE

PHENYLALKANOLS, PHENYLETHANOL
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)

PHENYLALKOXYALKYLAMINES, DIPHENHYDRAMINE
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)

PHENYLALKYLAMINES, AMPHETAMINE
P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotheropeutic drugs and cardiovascular system (human, rats)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)

PHENYLALKYLAMINES, D-AMPHETAMINE
R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)

PHENYLALKYLAMINES, BENZYLAMINES, BRETYLIUM TOSYLATE
P01HL-11310-12 0078 Mechanisms of cardiovascular disease - Ventricular arrhythmias in acute myocardial infarction (dogs)
R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
R01HL-22170-01 Factors influencing transmission at adrenergic synpases

PHENYLALKYLAMINES, BENZYLAMINES, DIBENAMINE
R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)

PHENYLALKYLAMINES, BENZYLAMINES, PHENOXYBENZAMINE
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-15758-06 Catecholamine release in the heart (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)
R01HL-18948-03 Pulseless flow and circulatory assistance (dogs, calves)
R23HL-21203-02 Effect of vasoactive agents on left-to-right shunts (lambs)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)

PHENYLALKYLAMINES, CATECHOLAMINES

SEE ALSO CYCLIC AMINO ACIDS, OOPA
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, SYMPATHOMIMETIC

R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
** R01HL-05875-18 Pathologic metabolic and physiologic studies of heart (human, dogs, cats)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06308-18 0040 Mechanisms and therapy of circulatory disease - Metabolism and fatty acid utilization--Heart electrical stability (rats, dogs)
P01HL-06370-17 0015 Cardiopulmonary and renal pathology research center - Pathogenesis of chemically induced tissue injury (rats)
R01HL-06736-18 Biogenic-mechanical factors in microcirculation (rats, gerbils)
P01HL-06835-17 0030 Cardiovascular disease - Synthesis and pharmacology of angiotensin antagonists (rats, cats)
P01HL-06835-17 0031 Cardiovascular disease - Synthesis of potent antagonist of pressor action of angiotensin II (animals)
P01HL-06835-17 0037 Cardiovascular disease - Cardiac hypertrophy in spontaneously hypertensive rat
P01HL-06835-17 0038 Cardiovascular disease - Effect of chronic administration of angiotensin antagonist (rats)
P01HL-06835-17 0040 Cardiovascular disease - Benign and malignant phase of renal hypertension (dogs)
** P01HL-07896-15 0052 Environmental biomedical research program - Effects of hypoxia on cerebral function
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
P01HL-08682-15 0006 Regulation of the cardiovascular system - Cardiovascular studies of mammalian hibernators (sciuromorpha)
P01HL-08682-15 0011 Regulation of the cardiovascular system - Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels)
P01HL-08682-15 0033 Regulation of the cardiovascular system - Functional and anatomical relations during cardiac re-innervation (dog)
R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
P01HL-11307-12 0003 Biophysical studies in pediatric cardiology - Cellular biophysics (animals)
P01HL-11351-12 0013 Cellular and molecular mechanisms of myocardial function - Ion exchange in the perfused septum high-resolution technique (rabbits, rats)
** P01HL-11414-11 0028 Thrombosis and atherosclerosis program - Catecholamine metabolism in the lung (rat)
R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)
P01HL-11678-11 0059 Cardiovascular dynamics and their control - Basic hemodynamics (dogs, rats)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P01HL-12157-11 0049 Functions and mechanisms of cell membrane ion transport - Ouabain-insensitive cation transport in duck red cells
P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Determinants of performance of the whole heart (dogs)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
R01HL-12421-10 Pathophysiology of circulatory shock (dogs, baboons)
** R01HL-12648-09 Catecholamine metabolism in hypertensive diseases (human)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
P01HL-12738-10 0080 Physiologic pharmacology and its clinical applications - Electrophysiology of cardiac muscle in the mitral valve (monkeys)
P01HL-12738-10 0107 Physiologic pharmacology and its clinical applications Blood superfused cardiac fibers (dogs)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications Developmental electrophysiology and pharmacology (human, animals)
P01HL-12738-10 0136 Physiologic pharmacology and its clinical applications
R01HL-12774-08 Ionic coupling in activation of cardiac muscle (frogs, guinea pigs)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-13036-08 Coronary thrombosis-Effects on myocardium and in vivo detection (dogs, monkeys)
P01HL-13108-09 0008 Clinical heart transplantation - Physiology and pharmacology of the transplanted human heart
P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
P01HL-13108-09 0023 Clinical heart transplantation - Adaptive mechanisms of the denervated heart (human)
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
R01HL-13375-09 Cellular potential changes causing cardiac arrhythmias (dogs)
R01HL-13666-06 Pharmacology of genesis of cardiac rhythmicity (rats, cats)
R01HL-13715-08 Myocardial adenyl cyclase (rats)
R01HL-14092-07 Homeostatic regulation of plasma choline (rats, dogs, chickens)
** P50HL-14159-08 0018 Specialized center of research in hypertension - Sympathetic nervous system in hypertension (rats)
P50HL-14159-08 0022 Specialized center of research in hypertension - Core laboratory
R01HL-14306-07 Quantitication of arterial pressure control (dogs)
** P01HL-14388-07 0151 Regulation of the circulation in pathological states - Catecholamine release in potassium ion-free contractures in the caudal artery
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
P01HL-14388-07 0194 Regulation of the circulation in pathological states - Dopamine-beta-hydroxylase localization and release in hypertension
P01HL-14388-07 0198 Regulation of the circulation in pathological states - Humoral factors in vascular reactivity in spontaneously hypertensive rats
P01HL-14388-07 0212 Regulation of the circulation in pathological states - Role of dopamine in autonomic activity
P01HL-14388-07 0213 Regulation of the circulation in pathological states - Regulation of the heart and peripheral circulation in heart failure
P01HL-14388-07 0215 Regulation of the circulation in pathological states - Left ventricle model in pathophysiologic states
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
R01HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
R01HL-14461-08 Cardiac metabolism in heart failure (rats)
R01HL-14526-07 Oral contraceptives and hypertension (rats)
** R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
R01HL-15444-06 Neonatal development of adrenergic receptor mechanisms (pigs)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
** R01HL-15677-06 Autonomic nervous system function in bronchial asthma (human, guinea pig, rabbit)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
** R01HL-15758-06 Catecholamine release in the heart (dogs)
R01HL-15764-05 C-AMP dependent protein kinase in cardiac contraction (dogs)
R01HL-15805-06 Cerebral arterial tone and reactivity (rabbits)
R01HL-15808-06 Role of angiotensinogen in hypertension and stroke (human, rabbits)
** R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
** P01HL-16117-05 0005 Ion movements and membranes in cardiovascular control Properties of isolated cell membranes (rabbits, cats)
R01HL-16135-05 Mechanisms of cardiac autorhythmicity (dogs, bats)
P01HL-16137-05 0013 Alveolar biology Development and pathology of surfactant-Formation of alveolar (rabbits, sheep)
R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
R01HL-16474-05 Antibiotic-ion interactions (model membranes)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
R01HL-17335-05 Contractile properties of hypertensive arterioles (rats)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
R01HL-17403-03 Metabolic control of cardiac output (dogs)
R01HL-17452-04 Depolarization induced cardiac automaticity (human, animals)
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
R01HL-17629-03 Developmental aspects of cardiovascular function (human, cats, rabbits)
** R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
R01HL-17799-02 The presence and significance of heart acetylcholine (cats)
P01HL-17813-04 0008 Lung disease and the oxygenation of blood and tissue Pulmonary regulation of systemic blood pressure (human, rabbits, rats)
R01HL-17847-04 Cardiovascular and renal functions of marmots
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
** R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)
** R01HL-18095-04 Human dopamine-beta-hydroxylase (also cattle)
R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
** R01HL-18148-04 Adrenal catecholamine secretion
R01HL-18176-02 Effect of thyroid hormone on cultured cardiac cells (rats)
R01HL-18185-04 Cardiac glycosides and diuretics--Role of NaO pump (dogs)
P50HL-18318-03 0001 Pathogenesis and complications of hypertension - Core clinical program
P50HL-18318-03 0003 Pathogenesis and complications of hypertension - Core biochemical laboratory
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
** P50HL-18323-04 0046 SCOR hypertension center - Coronary artery bypass surgery--Associated hypertension (human)
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
R01HL-18517-03 Intrinsic innervation of the heart (dogs)
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
R01HL-18624-03 Study of kinins in hypertension and other diseases (human)
R01HL-18705-03 Regulation of plasma triglyceride metabolism (rats)
P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-18749-03 Ventricular mechanics in the overloaded heart (dogs)
R01HL-18762-03 Post-traumatic pulmonary insufficiency (dogs)
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
R01HL-18907-03 Objective evaluation early after MI and heart surgery (human)
M P01HL-18974-03 Experimental neurogenic hypertension program
P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)
P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)
** P01HL-18974-03 0009 Experimental neurogenic hypertension program - Biochemistry of brain tyrosine hydroxylase (rats)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

** P01HL-18974-03 0012 Experimental neurogenic hypertension program - Immunohistochemistry of central monoamine neurons (rats)
R01HL-18976-03 Blood pressure control--Relation to behavioral stress (human, dog)
** R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
R01HL-19027-03 Calcium and cyclic AMP in causation of hypertension (rats)
** R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
R01HL-19063-03 Cholesterol and lipoprotein metabolism (rat hepatocytes)
R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
** R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
R01HL-19134-04 Angiotensin, prostaglandins, adrenergic interactions (rats, rabbits)
R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
P01HL-19242-02 0004 Study of vascular smooth muscle - Cyclic nucleotide metabolism in smooth muscle cultures (human, rats)
P50HL-19362-02 0010 A/S SCOR--Atherosclerosis in nonhuman primates - Antihypertensive therapy--Atherogenesis in experimental hypertension (baboon)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
R01HL-19398-03 Regional conduction abnormalities and arrhythmias (dogs)
** R01HL-19423-03 Catecholamine action on the heart (cats, rats)
** P01HL-19717-02 0013 Response of the lung to injury - Handling of biologically active substances by the diseased lung (guinea pigs)
** P01HL-19717-02 0037 Response of the lung to injury - Catecholamines, prostaglandins and nucleotides in pulmonary function (animals)
** R01HL-19870-03 Hypertensive progeny--Physical and humoral precursor search
R01HL-20184-02 Desensitization of tracheal muscle to isoproterenol (rats, rabbits)
** R01HL-20194-01 Brain catecholamines in control of blood pressure (rats)
R01HL-20206-02 Carbohydrates-nucleotides and adrenergic interactions (rabbits, cats, rats)
R01HL-20286-02 Interventions to improve cardiac function in ischemia (dogs)
R01HL-20339-02 Vascular alpha-adrenergic receptor molecular properties
R01HL-20476-03 Effects of diabetes on cardiac performance (rat)
R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
P01HL-20552-02 0004 The development and regression of cardiac hypertrophy - Ventricular function in experimentally induced hypertrophy (hogs, sheep, baboons)
R01HL-20564-02 Pathogenesis of peripheral arterial disease (rats, rabbits)
P01HL-20581-01 0003 Vascular neuroeffector mechanisms in health and disease - Cerebrovascular neuroeffector characteristics (animals)
P01HL-20581-01 0006 Vascular neuroeffector mechanisms in health and disease - Neuroeffector mechanism in arteries and veins in hypertension (human)
R01HL-20604-03 Sympathectomy--Cardiovascular and molecular pharmacology (animals)
R01HL-20610-02 Nerve growth factor and obstructive cardiomyopathy (dogs)
R01HL-20719-02 Cold induced pulmonary hypertension (cattle)
R01HL-20768-02 Mechanisms of circulatory regulation in heart failure (guinea pigs)
R01HL-20782-01 Coronary flow regulation by adenosine (rats, dogs)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
** R01HL-20859-02 Beta adrenergic catecholamine receptor
R01HL-20956-02 Early events following stimulation of human platelets
R23HL-21051-02 Adrenergic receptors and the adenylate cyclase system (frog RBC)
R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
R01HL-21210-01 Acute renal failure following cardiac surgery (human)
R23HL-21234-02 The regulation of cardiac hypertrophy (rabbits)
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
R01HL-21578-01 Effect of exercise upon the hypertensive adolescent
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)
** R01HL-21817-01 Catecholamines, blood pressure and circulation
R01HL-21893-01 Blood volume distribution in hypertension (human)
** R23HL-21914-01 Studies of vasomotor control (rats)
** R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)
R01HL-21995-01 Protein phosphorylation and adrenergic effects
R01HL-22069-02 Experimental renal arterial hypertension (dogs)
R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
R01HL-22215-01 Effects of exercise-training in ischemic heart disease (human)
R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
R01HL-22226-01 Autonomic nervous elements in the developing heart (rabbits)
** R01HL-22235-01 Mechanism of cardiac pacemaking (rabbits)
R01HL-22244-01 Cardiopulmonary bypass and the vascular endothelium (dogs)
R01HL-22298-02 Origins of hypertension (human)
** R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
** R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
** R01HL-22828-01 Adenosine and catecholamine interaction in the heart (rats)
** R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis
R23HL-22959-01 Heart development in inherited cardiomyopathy (hamsters)
R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)
** R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
R01HL-23201-01 Mechanisms of hypertension (human, rats)
R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
R01HL-23599-01 Mechanisms of ischemic rhythm disorders (dogs)
R01HL-23603-01 Morphogenesis of hypertensive vascular disease (rats)

PHENYLALKYLAMINES, CATECHOLAMINES, DOBUTAMINE

R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs

PHENYLALKYLAMINES, CATECHOLAMINES, DOPAMINE

P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
R01HL-12648-09 Catecholamine metabolism in hypertensive diseases (human)
P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
P01HL-12738-10 0133 Physiologic pharmacology and its clinical applications - Pharmacologic antagonism of beta-adrenergic blockade (dogs)
P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
** P01HL-14388-07 0212 Regulation of the circulation in pathological states - Role of dopamine in autonomic activity
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in men
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
R01HL-15607-06 Physiological control of splanchnic circulation (dogs)
R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
R01HL-18084-03 Artificial heart and related problems (calves)
P50HL-18323-04 0041 SCOR hypertension center - Measurement of sympathetic response in hypertensive patients
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
** R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
R01HL-22836-01 The spontaneously hypertensive kidney (rats)
** R01HL-23614-02 Pharmacology of relaxation in smooth muscle (mollusks)
R01HL-23653-01 Protection of the ischemic myocardium (dogs)

PHENYLALKYLAMINES, CATECHOLAMINES, EPINEPHRINE

SEE ALSO NEUROTRANSMITTERS RECEPTORS, ADRENERGIC RECEPTORS

R01HL-03181-21 0027 Hemodynamics as applied to surgical problems - Hemodynamic studies of the GI tract (dogs)
R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
R01HL-12648-09 Catecholamine metabolism in hypertensive diseases (human)
P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
P01HL-12738-10 0133 Physiologic pharmacology and its clinical applications - Pharmacologic antagonism of beta-adrenergic blockade (dogs)
P01HL-12738-10 0134 Physiologic pharmacology and its clinical applications - Adenylate cyclase and cAMP phosphodiesterase in cardiac development (dogs)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
P01HL-14388-07 0163 Regulation of the circulation in pathological states - Adrenergic receptors in coronary vessels (dogs)
P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
P01HL-14388-07 0230 Regulation of the circulation in pathological states - Effects of indomethacin in patients with carcinoid syndrome
P01HL-14388-07 0231 Regulation of the circulation in pathological states - Mechanism of cutaneous vasodilatation in Paget's disease of bone
R01HL-14903-07 A new index of cardiac contractility (human, dogs, baboons)
R01HL-15567-05 Cardiovascular phosphoinositide metabolism (rats)
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
R01HL-16152-06 Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs)
R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)
R01HL-18080-03 Extrinsic control of intestinal microcirculation (dogs)
R01HL-18148-04 Adrenal catecholamine secretion
P50HL-18318-03 0011 Pathogenesis and complications of hypertension - Adrenergic function--Renin and mineralocorticoid activity (human)
P50HL-18323-04 0041 SCOR hypertension center - Measurement of sympathetic response in hypertensive patients
P50HL-18828-03 0004 Specialized center of research in thrombosis - Membrane changes in platelet physiology--Role of complement (mice, human)
R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL-19532-01 Oxygen toxicity in the red cell (human)

(contd)

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**Oriented significantly to above subject.

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P01HL-19717-02 0007 Response of the lung to injury - Cellular level studies of prostaglandin-like molecules (cattle)
R01HL-20339-02 Vascular alpha-adrenergic receptor molecular properties
R01HL-20517-03 Diabetes, somatotropin, factor VIII and atherosclerosis (human, animal)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R23HL-21051-02 Adrenergic receptors and the adenylate cyclase system (frog RBC)
R01HL-21318-02 Mechanisms of emotions' asthma triggering effect (human)
** R01HL-21574-01 Automaticity of AV node and its adjacent tissues (dogs)
R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
R01HL-21817-01 Catecholamines, blood pressure and circulation
R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
** R01HL-22514-01 Behavior patterns, stress, and catecholamines
R01HL-22522-01 Cardioselectivity of beta-adrenoceptor antagonists
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)

PHENYLALKYLAMINES, CATECHOLAMINES, L-HYDROXYDOPAMINE

R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
R01HL-10942-09 Study of genetic hypertension in rats
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
R01HL-18340-04 Electron microscopy of the juxtaglomerular apparatus (rats)
P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)

PHENYLALKYLAMINES, CATECHOLAMINES, ISOPROTERENOL

R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06308-18 0039 Mechanisms and therapy of circulatory disease - ANS in regulation of electrophysiology--Role of cyclic nucleotides (animals)
P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)
P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
P01HL-11310-12 0062 Mechanisms of cardiovascular disease - Myocardial depressant factor in postoperative cardiac dysfunction (human, dogs)
P01HL-11310-12 0079 Mechanisms of cardiovascular disease - Electrophysiological studies of complete heart block (human)
P01HL-11678-11 0059 Cardiovascular dynamics and their control - Basic hemodynamics (dogs, rats)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
P01HL-12738-10 0133 Physiologic pharmacology and its clinical applications Pharmacologic antagonism of beta adrenergic blockade (dogs)
P01HL-13108-09 0017 Clinical heart transplantation Electrophysiology of the transplanted denervated human heart
R01HL-13375-09 Cellular potential changes causing cardiac arrhythmias (dogs)
P50HL-14153-07 0011 Johns Hopkins Lung Center--Chronic diseases of airways - Allergy, airways reactivity and asthma in human ragweed allergy
P01HL-14388-07 0163 Regulation of the circulation in pathological states - Adrenergic receptors in coronary vessels (dogs)
P01HL-14388-07 0215 Regulation of the circulation in pathological states - Left ventricle model in pathophysiologic states
R01HL-14545-06 Mechanics of compensatory ventricular hypertrophy (dogs)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-14903-07 A new index of cardiac contractility (human, dogs, baboons)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
R01HL-16463-05 Localization of airways obstruction and responses
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
P01HL-16910-05 0002 Regulation of the peripheral circulation - Coronary circulation (dogs)
P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
R01HL-17459-03 Myocardial ischemia (dogs)
R01HL-17689-06 Neurophysiologic studies of respiratory control (cats)
P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
R01HL-18084-03 Artificial heart and related problems (calves)
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
P50HL-19170-02 0007 Harvard pulmonary SCOR--Chronic diseases of the airways - Therapy effect on airway obstruction in acute asthma (human)
R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
R01HL-19423-03 Catecholamine action on the heart (cats, rats)
R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
** R01HL-20184-02 Desensitization of tracheal muscle to isoproterenol (rats, rabbits)
R01HL-20211-02 Role of taurine in the heart (dogs, rats, mice)
R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
R01HL-20542-03 Regional hemodynamics in spontaneous hypertension (rats)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-20793-02 Phospholipids and cardiac receptor function
R01HL-20859-02 Beta adrenergic catecholamine receptor
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
R23HL-21539-02 Mechanical properties of isolated small bronchioles (rabbits)
P01HL-21584-02 0006 Respiratory mechanics in normal and abnormal states - Respiratory mechanics in health and disease (human, pigs)
R23HL-21973-01 Catecholamine metabolism and the heart (human, guinea pigs)
R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)
R01HL-22137-02 Structure-function pathology of isolated heart cells (mice, rats)
R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)
R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R01HL-23624-01 Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs)

PHENYLALKYLAMINES, CATECHOLAMINES, METANEPHRINE

** R01HL-14148-07 0002 The regional circulations - Catecholamine metabolism in subtypes of hypertension (human, animals)
R01HL-15758-06 Catecholamine release in the heart (dogs)

PHENYLALKYLAMINES, CATECHOLAMINES, NOREPINEPHRINE

R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
R01HL-03181-21 0027 Hemodynamics as applied to surgical problems - Hemodynamic studies of the GI tract (dogs)
R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
R01HL-05883-18 0002 Reflex control of resistance and capacitance vessels - Adenosine, adenine nucleotides and vascular smooth muscle (dog)
R01HL-05883-18 0003 Reflex control of resistance and capacitance vessels - Cardiac glycosides and sympathetic nerve terminals in vascular smooth muscle
R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
P01HL-08682-15 0011 Regulation of the cardiovascular system - Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels)
P01HL-08682-15 0033 Regulation of the cardiovascular system - Functional and anatomical relations during cardiac re-innervation (dog)
P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
P01HL-10342-13 0024 The integrated function of respiration and circulation - Cytochrome P450 and physiological response to hypoxia (rats)
R01HL-10942-09 Study of genetic hypertension in rats
P01HL-11414-11 0028 Thrombosis and atherosclerosis program - Catecholamine metabolism in the lung (rat)
P01HL-11678-11 0051 Cardiovascular dynamics and their control - Transient glomerular filtration dynamics (dogs)
R01HL-12614-09 Microcirculatory control mechanisms and hypertension (bats, rats)
** R01HL-12647-08 Inactivation of norepinephrine in vascular tissue
** R01HL-12648-09 Catecholamine metabolism in hypertensive diseases (human)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
R01HL-12775-08 Cerebral microcirculation (mice)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denerveted human heart
** R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
** R01HL-14148-07 0002 The regional circulations - Catecholamine metabolism in subtypes of hypertension (human, animals)
P50HL-14159-08 0008 Specialized center of research in hypertension - Renal function and sodium metabolism in hypertension (rats, human, rabbits)
P50HL-14159-08 0018 Specialized center of research in hypertension - Sympathetic nervous system in hypertension (rats)
P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
P01HL-14388-07 0151 Regulation of the circulation in pathological states - Catecholamine release in potassium ion-free contractures in the caudal artery
P01HL-14388-07 0158 Regulation of the circulation in pathological states - Developmental aspect of abnormal vascular reactivity (rats)
P01HL-14388-07 0163 Regulation of the circulation in pathological states - Adrenergic receptors in coronary vessels (dogs)
P01HL-14388-07 0168 Regulation of the circulation in pathological states - Ionic basis of depolarization (rats, tissue cultura)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0186 Regulation of the circulation in pathological states - Angiotension in modulation of neurogenic vasoconstriction
P01HL-14388-07 0193 Regulation of the circulation in pathological states - Ontogenesis of central nervous system amines in hypertension (rats)
P01HL-14388-07 0194 Regulation of the circulation in pathological states - Dopamine-beta-hydroxylase localization and release in hypertension
P01HL-14388-07 0198 Regulation of the circulation in pathological states - Humoral factors in vascular reactivity in spontaneously hypertensive rats
P01HL-14388-07 0199 Regulation of the circulation in pathological states - Adrenergic stimulation in spontaneously hypertensive rats
P01HL-14388-07 0210 Regulation of the circulation in pathological states - Effects of dietary sodium on blood pressure and vascular reactivity
P01HL-14388-07 0211 Regulation of the circulation in pathological states - Choline acetyltransferase activity (rats)
P01HL-14388-07 0213 Regulation of the circulation in pathological states - Regulation of the heart and peripheral circulation in heart failure
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
R01HL-14545-06 Mechanics of compensatory ventricular hypertrophy (dogs)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
R01HL-14944-07 Renal vascular reactivity in hypertensive patient
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-15758-06 Catecholamine release in the heart (dogs)
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
P01HL-16117-05 0006 Ion movements and membranes in cardiovascular control - Neuroreceptors and cellular excitation (fish)
P01HL-16117-05 0008 Ion movements and membranes in cardiovascular control - Arterial smooth muscle calcium fluxes and contractility (rabbits)
R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
P50HL-17646-04 0014 Study of ischemic heart disease - Progression of ischemic injury in conscious dogs (also rabbits)
P50HL-17648-04 0028 Study of ischemic heart disease - Electrophysiology of sympathetic innervation in tissue culture
** R01HL-17724-03 Oral contraceptives and hypertension (rats)
R01HL-17853-03 Peripheral circulation in heart failure (animals)
R01HL-18080-03 Extrinsic control of intestinal microcirculation (dogs)
R01HL-18148-04 Adrenal catecholamine secretion
R01HL-18199-03 Effects of ions on vascular reactivity
R01HL-18272-03 Heart adenyl cyclase complex (beef heart)
P50HL-18318-03 0011 Pathogenesis and complications of hypertension - Adrenergic function--Renin and mineralocorticoid activity (human)
P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
P50HL-18323-04 0041 SCOR hypertension center - Measurement of sympathetic response in hypertensive patients
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
P01HL-18575-03 0005 Mechanisms of vascular changes in hypertension - Renin synthesis in normotensive and hypertensive pigs (also rats, dogs)
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
R01HL-18952-03 Metabolism in perfused fetal and newborn rabbit lungs
P01HL-18974-03 0010 Experimental neurogenic hypertension program - Biochemistry and regulation of PNMT in brain (rats)
R01HL-18995-04 Cardiovascular determinants of catecholamine release (dogs)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
R01HL-19082-01 Hypoxia-induced relaxation of vascular smooth muscle
R01HL-19229-02 Prostaglandins and hypertension (human, rats, dogs, rabbits)
** P01HL-19242-02 0007 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (animals)
** P01HL-19242-02 0008 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (rats)
R01HL-19251-03 An index of sympathetic activity in hypertension (rats)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
P01HL-19737-02 0002 Cellular and molecular aspects of respiratory physiology - Airway smooth muscle in health and disease (human, animals)
R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)
R01HL-19997-02 Prostaglandin precursors and intestinal vasculature (cats, rabbits)
R01HL-20339-02 Vascular alpha-adrenergic receptor molecular properties
R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
** R01HL-20401-03 Relationship of insulin to catechol cardiomyopathy (rabbit, pig)
R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
R01HL-20439-02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
R01HL-20446-02 Autonomic neuropathy in diabetic mice (also rats)
P01HL-20581-01 0001 Vascular neuroeffector mechanisms in health and disease - Vascular neuroeffector mechanism (rabbits)
P01HL-20581-01 0004 Vascular neuroeffector mechanisms in health and disease - Neuroeffector characteristics of mesenteric and pulmonary blood vessels (rabbits)
R01HL-20685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
P01HL-21016-02 0013 Sickle cell anemia and other hemoglobinopathies - Microcirculatory response to sickle cell treated with anti-sickling agents (rats)
** R01HL-21099-02 Subcellular changes of blood vessels in hypertension (rats)
** R01HL-21187-01 Potassium, norepinephrine, and coronary arterial tone (dogs)
R01HL-21318-02 Mechanisms of emotions' asthma triggering effect (human)
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
R01HL-21367-02 Polyether ionophores--Synthesis of X537A and analogs
P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)
R01HL-21817-01 Catecholamines, blood pressure and circulation
R01HL-21860-18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)
R23HL-21901-01 Hypertension, microvascular control and exercise (rats)
R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
R01HL-22077-01 Vasoactive amine disposition in cultured endothelium (rabbits)
** R01HL-22170-01 Factors influencing transmission at adrenergic synpases
R01HL-22216-02 Vascular mechanisms in renal hypertension (dogs)
R01HL-22226-01 Autonomic nervous elements in the developing heart (rabbits)
R01HL-22306-01 Renal catecholamines-- Pathophysiology of hypertension (dogs)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
R01HL-22484-01 Neural control of cardiac conduction and excitation (dogs)
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
** R01HL-22514-01 Behavior patterns, stress, and catecholamines
R01HL-22522-01 Cardioselectivity of beta-adrenoceptor antagonists
R01HL-22561-01 Hormonal control of mesenteric circulation (cats)
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)
R01HL-23600-01 Ions, water, and hypertension (human, dogs, rats)

PHENYLALKYLAMINES, CATECHOLAMINES, NORMETANEPHRINE

R01HL-20194-01 Brain catecholamines in control of blood pressure (rats)

PHENYLALKYLAMINES, CATECHOLAMINES INHIBITORS

R01HL-17370-03 Synaptic chemistry and cardioregulation in Limulus
** R01HL-20439-02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
R01HL-22170-01 Factors influencing transmission at adrenergic synpases
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
** R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)

PHENYLALKYLAMINES, METHOXAMINE

P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human dogs)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)

PHENYLALKYLAMINES, PHENETHYLAMINES (GENERAL)

R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)

PHENYLALKYLAMINES, SALBUTAMOL

R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R23HL-21539-02 Mechanical properties of isolated small bronchioles (rabbits)

PHENYLALKYLAMINES, TERBUTALINE

R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)

PHENYLALKYLAMINES, VERAPAMIL

P01HL-06308-18 0037 Mechanisms and therapy of circulatory disease - Electrophysiology, blood flow, and ANS in ventricular fibrillation (dogs)
P01HL-06308-18 0038 Mechanisms and therapy of circulatory disease - Electrophysiology of ventricualr arrhythmias associated with ischemia (dogs)
P01HL-06308-18 0039 Mechanisms and therapy of circulatory disease - ANS in regulation of electrophysiology--Role of cyclic nulceotides (animals)
R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
P01HL-11351-12 0001 Cellular and molecular mechanisms of myocardial function - Ionic control of myocardial contractility (animals)
P01HL-11351-12 0013 Cellular and molecular mechanisms of myocardial function - Ion exchange in the perfused septum high-resolution technique (rabbits, rats)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
P01HL-12738-10 0080 Physiologic pharmacology and its clinical applications - Electrophysiology of cardiac muscle in the mitral valve (monkeys)
P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
P01HL-12738-10 0109 Physiologic pharmacology and its clinical applications - Effects of calcium blockers on skeletal and cardiac muscle (cats)
P01HL-12738-10 0132 Physiologic pharmacology and its clinical applications - Coronary occlusions and arrhythmias (dogs)
P01HL-12738-10 0136 Physiologic pharmacology and its clinical applications -
R01HL-14614-07 Voltage control of contraction in heart (sheep)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
P01HL-14985-07 0012 Adaptation to hypoxia Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
P01HL-15194-07 0004 Pathophysiology of cardiopulmonary dysfunction - Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals)
R01HL-16135-05 Mechanisms of cardiac autorhythmicity (dogs, bats)
R01HL-16436-04 Role of calcium and thyroxine in heart function (rats)
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
R01HL-18032-03 Development of normal and myopathic mammalian heart (hamsters)
R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
R01HL-19653-03 Circulatory system effects of angiotensin analogs (rats)
R01HL-21371-02 Energy loss microanalysis of myocardial cations
R01HL-21735-01 Electrophysiology after healed myocardial infarction (cats)
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
R01HL-23599-01 Mechanisms of ischemic rhythm disorders (dogs)

PHENYLAMIDES, ACETOPHENETIDIN

R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
P01HL-08899-14 0026 Tolerance to respiratory gases in health and disease - Effects of oxygen on central nervous system functions (rats, rabbits)

PHENYLAMIDES, LIDOCAINE

R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbits)
P01HL-11310-12 0078 Mechanisms of cardiovascular disease - Ventricular arrhythmias in acute myocardial infarction (dogs)
** P01HL-12738-10 0044 Physiologic pharmacology and its clinical applications - Cardioactive drugs and electrophysiological properties of cardiac cells (sheep)
P01HL-12738-10 0081 Physiologic pharmacology and its clinical applications - Ultrastructural and electrophysiologic alteration of myocardium (human, dogs)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
P01HL-12738-10 0110 Physiologic pharmacology and its clinical applications - Physiology and pharmacology of arrhythmias (dogs)
P01HL-12738-10 0132 Physiologic pharmacology and its clinical applications - Coronary occlusions and arrhythmias (dogs)
R01HL-14832-06 Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats)
R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
P50HL-17648-04 0014 Study of ischemic heart disease - Antidysrhythmic drugs and mammalian cardiac Purkinje fibers (sheep, dog)
R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
R23HL-21151-02 Ischemic myocardium--Delivery of blood flow and drugs (dogs)
R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)
R01HL-23599-01 Mechanisms of ischemic rhythm disorders (dogs)
R01HL-23624-01 Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs)

PHENYLAMIDES, PRACTOLOL

P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
P01HL-14388-07 0163 Regulation of the circulation in pathological states - Adrenergic receptors in coronary vessels (dogs)
R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)
R01HL 19782-02 Pharmacologic studies on the ischemic heart (dogs)
R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
R01HL-22522-01 Cardioselectivity of beta adrenoceptor antagonists
R01HL 23599-01 Mechanisms of ischemic rhythm disorders (dogs)

PHENYLAMIDES, PROCAINE AMIDE

SEE ALSO P-AMINOBENZOATE, PROCAINE HYDROCHLORIDE
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
P01HL-11310-12 0078 Mechanisms of cardiovascular disease - Ventricular arrhythmias in acute myocardial infarction (dogs)
** P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
** P01HL-12738-10 0044 Physiologic pharmacology and its clinical applications Cardioactive drugs and electrophysiological properties of cardiac cells (sheep)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
P50HL-17648-04 0014 Study of ischemic heart disease - Antidysrhythmic drugs and mammalian cardiac Purkinje fibers (sheep, dog)
P50HL-17670-04 0011 Study of ischemic heart disease - Pharmacology of ischemic myocardium (dogs)
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
R01HL-23624-01 Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs)

PHENYLAMINES, NEOSTIGMINE

** P01HL-07896-15 0056 Environmental biomedical research program - Neuromuscular blocking effects of nondepolarizing muscular relaxants (frogs)
R01HL-22546-02 Baroreceptor reflex mechanisms in man

PHENYLBUTAZONE

SEE PYRAZOLONES, PHENYLBUTAZONE

PHENYLCARBOXYLATES, BENZOATES

SEE ALSO SULFONAMIDES, PROBENECID
R01HL-20016-03 Chelator development for thalassemia (human, mice, rats, dogs, monkeys)
R01HL-20909-02 Clofibrate-enhanced lipid oxidation by peroxisomes (rats)

PHENYLCARBOXYLATES, SALICYLATES

R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
P01HL-08805-15 0047 Regulation of ventilation and pulmonary circulation - Extracranial metabolic control of ventilation (dogs, goats)
P01HL-14388-07 0231 Regulation of the circulation in pathological states - Mechansim of cutaneous vasodilatation in Paget's disease of bone
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs

PHENYLCARBOXYLATES, SALICYLATES, ACETYL-

P01HL-06350-17 0019 Hemostasis research program project - Microcirculation (human, rats, rabbits)
P01HL-07293-17 0058 Non-invasive cardiovascular measurements - Peripheral duplex scanner physiologic evaluation
** P01HL-07896-15 0057 Environmental biomedical research program - Effects of dipyridamole and aspirin on decompression thrombocytopenia (human)
R01HL-08888-12 Cooperative study of drugs and coronary heart disease (men)
R01HL-08892-10 Cooperative study of drugs and coronary heart disease
P01HL-08899-14 0026 Tolerance to respiratory gases in health and disease - Effects of oxygen on central nervous system functions (rats, rabbits)
R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)
P01HL-11414-11 0004 Thrombosis and atherosclerosis program - Platelet function and nonthrombogenic surfaces (human)
R01HL 13036-08 Coronary thrombosis Effects on myocardium and in vivo detection (dogs, monkeys)
R01HL 13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
P01HL 13738-08 0003 Cardiac assist devices and artificial hearts Pathophysiological effects of the artificial heart (calves)
R01HL 13754-08 Postoperative thromboembolism in surgical patients (human)
** P50HL 14147-08 0001 Specialized center of research in thrombosis Role of aspirin, other anti-platelet agents in platelet function (rat, human)
** P50HL-14153-07 0012 Johns Hopkins Lung Center Chronic diseases of airways Aspirin intolerance in reversible lung disease (human)
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
R01HL-14571-05 Myocardial preservation and coronary reperfusion (baboons, dogs)
R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
R01HL-14890-07 Platelet prostaglandins (human, rabbits)
R01HL-15374-03 Cooperative study of drugs and coronary heart disease (human)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
P01HL-16387-04 0005 The blood vessel and thrombogenesis - Fluid engineering considerations in thrombogenesis
R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)
R01HL-16489-04 Renal prostaglandins--Synthesis and function (human, dogs, rats)
R01HL-16496-04 Prostaglandins and renin experimental hypertension (rabbits)
R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
P01HL-18576-03 0001 Thrombosis research program project - Platelet damage from physical forces and artificial surfaces (human)
R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
** R01HL-18738-02 Prevention of postoperative venous thrombi (human, cattle)
P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
R01HL-18932-03 Brain microcirculation observed in vivo after trauma (mice)
R01HL-19001-03 Atherosclerosis in bleeder and drug treated subjects (pigs)
R01HL-19112-03 Atherosclerosis studies (monkeys)
R01HL-19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
P01HL-19717-02 0007 Response of the lung to injury - Cellular level studies of prostaglandin-like molecules (cattle)
R01HL-20337-02 Thromboembolic diseases (human)
R01HL-20924-02 Atherosclerosis and arterial cell functions (human, rabbits)
R23HL-21298-02 Coronary vasomotion (dogs, pigs)
R01HL-21533-02 Platelet inhibitor drug in coronary surgery (human)
P01HL-22163-01 0003 Surface thrombogenesis--Mechanisms and prevention - In vivo mechanisms of biomaterial thrombogenesis and its prevention (baboons)
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs
R01HL-22445-01 Platelet inhibitors--Effect on coronary bypass grafts (dogs)
R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
R01HL-22783-01 Hemodynamic induction of intimal fibromuscular lesion
R01HL-22951-01 Studies on the affect of vitamin E on platelets (human, rats)
** N01HV-52901-06 Aspirin-myocardial intarction study
** N01HV-52941-04 Center for aspirin-myocardial intarction study (human)

PHENYLCARBOXYLATES, SALICYLATES, P-AMINO-

P50HL-14237-07 0006 Support for arteriosclerosis center - Drug treatment of familial hyperbetalipoproteinemia (human)
P01HL-20993-02 0004 Population dynamics of arterial cells in atherogenesis - Modifications of cholesterol balance related to arterial cell divisions (swine)

PHENYLEPHRINE

SEE PHENOLIC AMINES, NEOSYNEPHRINE

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

PHENYLETHANOL
SEE PHENYLALKANOLS, PHENYLETHANOL

PHENYLETHYLAMINES
SEE PHENYLALKYLAMINES, PHENETHYLAMINES (GENERAL)

PHENYLETHYLBIGUANIDE
SEE GUANIDINES, BIGUANIDES, PHENETHYLBIGUANIDE

PHENYLHYDRAZINES
SEE AZO COMPOUNDS, HYDRAZINES, PHENYLHYDRAZINES

PHEOCHROMOCYTOMA
SEE NEOPLASMS OF NERVOUS SYSTEM, PARAGANGLIA NEOPLASMS, PHEOCHROMOCYTOMA

PHLEBOGRAPHY (VENOGRAPHY) - GENERAL
SEE CARDIOVASCULAR VISUALIZATION, VENOGRAPHY (GENERAL)*

PHLEBOTOMY - BLOODLETTING
SEE BLOODLETTING

PHLORETIN
SEE PHENONES, PHLORETIN

PHONOANGIOGRAPHY
SEE CARDIOVASCULAR DISORDERS DIAGNOSIS, SOUND MEASUREMENTS, VASCULAR*

PHORBOL
SEE LIPIDS, OILS, CROTON OIL

PHOSPHATASE INHIBITORS
SEE ENZYME INHIBITORS, PHOSPHATASE INHIBITORS

PHOSPHATASES
SEE ALSO NUCLEOTIDASES
SEE ALSO PHOSPHODIESTERASES
R01HL-13630-08 Control of glycogen synthesis in heart (cattle)
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
R01HL-18631-03 Ultrastructural correlates of myocardial ischemia (rats, swine)
R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)

PHOSPHATASES, ADENOSINE TRIPHOSPHATASE
SEE ALSO BLOOD COAGULATION, THROMBOSTHENIN
SEE ALSO MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), MYOSIN
R01HL-01974-24 Ion-pump in the erythrocyte (rabbits, guinea pigs)
R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
P01HL-06285-18 0195 Cardiovascular-respiratory physiology and biochemistry - Thyroid thermogenesis and sodium transport (rats)
P01HL-06285-18 0196 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Epithelial cell membranes (toads)
P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology
P01HL-06664-17 0036 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
P01HL-07896-15 0032 Environmental biomedical research program - Fluorometry study of brain exposed to hyperbaric oxygen (dogs, cats)
P01HL-07896-15 0049 Environmental biomedical research program - Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
R01HL-08893-14 Structure and function of membrane proteins (human)
R01HL-09234-13 Amino acids of contractile proteins of failing hearts (dogs, hamsters)
R01HL-09544-12 Biochemistry of contractile proteins (animals)
R01HL-09906-13 0018 Membrane transport processes in red blood cells - Rapid photolytic release of ATP from a protected analog--Na-K pump of RBC ghosts
R01HL-10608-12 Digoxin-specific antibodies (human)
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
P01HL-11351-12 0006 Cellular and molecular mechanisms of myocardial function - Molecular physiology and energetics of muscle (frogs)
P01HL-11351-12 0019 Cellular and molecular mechanisms of myocardial function - Mechano-chemical kinetics of small perturbations
** P01HL-11351-12 0024 Cellular and molecular mechanisms of myocardial function - Steady state and transient kinetics of frog myosin, S-1, and ATPase
R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-13237-09 Erythrocytes during early development (human, animals)
R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
P01HL-13737-07 0031 Assisted circulation - Myocardial ischemia--Biochemical changes (dogs)
R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
R01HL-14020-06 Characterization of myosin from blood platelets (rabbit)
P01HL-14388-07 0172 Regulation of the circulation in pathological states - cAMP-dependent protein kinase from heart and vascular smooth muscle (guinea pigs)
** P01HL-14388-07 0173 Regulation of the circulation in pathological states - Mechanisms of cardiac myosin ATPase
P01HL-14388-07 0175 Regulation of the circulation in pathological states - Functional studies of selected proteins from cardiac muscle
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
R01HL-14820-07 Factors affecting physiology of biological membranes (human)
P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-15498-06 Effects of physical training on heart (rats)
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
R01HL-15793-06 Molecular aspects of erythrocyte membrane resealing (human)
R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
R01HL-16052-05 Cardiac glycosides--Mechanism of inotropic action (dogs)
P01HL-16117-05 0002 Ion movements and membranes in cardiovascular control - Fluorescence and excitation-contraction coupling in heart (frogs)
P01HL-16117-05 0008 Ion movements and membranes in cardiovascular control - Arterial smooth muscle calcium fluxes and contractility (rabbits)
** R01HL-16318-21 Biochemistry and pharmacology of Na-K transport
** R01HL-16549-04 Cardiotonic steroid-NaK ATPase interactions (cattle)
P01HL-16607-05 0001 Calcium ion and control of cardiovascular function - Bilayer lipid membranes, antibiotic probes, and SR function
** P01HL-16607-05 0003 Calcium ion and control of cardiovascular function - Calcium transport in sarcoplasmic membranes (animals)
** P01HL-16607-05 0005 Calcium ion and control of cardiovascular function - Chemical modifications of the sarcoplasmic reticulum membranes (rabbits)
P01HL-16607-05 0007 Calcium ion and control of cardiovascular function - Ultrastructure and conformation in sarcoplasmic reticulum (rabbits)
R01HL-16611-04 Digitalis-receptor of the heart (guinea pigs, rats)
R01HL-16637-04 Development and regression of cardiac hypertrophy (rats)
P01HL-16683-04 0001 Function and growth of cardiac and skeletal muscle - Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)
** P01HL-16683-04 0002 Function and growth of cardiac and skeletal muscle - Myosin, actin, ATP, interaction in solution
P01HL-16683-04 0006 Function and growth of cardiac and skeletal muscle - Chemical studies of the contractile system--Development of new reagents
R01HL-16706-04 Excitation-contraction coupling and heart failure (dogs, rabbits)
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
P60HL-17269-04 0003 National heart and blood vessel research and demonstration center - Atherosclerosis --Fatty acid metabolism in cardiovascular tissue (human, chicken)
** P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
P60HL-17269-04 0018 National heart and blood vessel research and demonstration center - Mitochondria and energetics (rabbits, dogs)
P60HL-17269-04 0019 National heart and blood vessel research and demonstration center - Sarcoplasmic reticulum (dog, rabbit, hamster, cat)
P60HL-17269-04 0022 National heart and blood vessel research and demonstration center - Medicinal chemistry (rabbit, dog, guinea pig)
R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
P50HL-17682-04 0024 Study of ischemic heart disease - Phosphorylation of cardiac contractile proteins during ischemia (rat, guinea pig)
R01HL-17796-04 Importance of aminosugars in digitalis activity (cats, rabbits)
** R01HL-17879-04 Molecular structure of the ouabain sensitive ATPase (dogs)
** R01HL-18003-05 Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)
R01HL-18053-03 Intracellular ionic activities in heart muscle (frogs)
R01HL-18176-02 Effect of thyroid hormone on cultured cardiac cells (rats)
R01HL-18179-03 Heart, platelet, and muscle myosins and actomyosins (cattle)
** R01HL-18185-04 Cardiac glycosides and diuretics--Role of NaO pump (dogs)
** P01HL-18208-04 0001 Center for the study of blood cell rheology - Physiological basis of reversible erythrocyte shape change (human, firefly)
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
P01HL-18208-04 0007 Center for the study of blood cell rheology - RBC membrane protein (human)
R01HL-18255-04 Lipid-protein interactions and calcium transport (models)
R01HL-18516-03 Atherosclerosis and the arterial contractile proteins (pigs, rabbits)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
R01HL-18551-03 Spectrin, actin, lipid and red cell membrane structure
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
** R01HL-18598-03 Role of Na, K-ATPase inhibition on digitalis action
P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
R01HL-18798-04 0001 Nervous and ionic factors in sudden cardiac death - Potassium loss during myocardial ischemia (rabbits)
R01HL-19068-03 Changes in membrane properties during erythropoiesis (chick embryo)
** R01HL-19129-04 Cardiac glycosides--Mechanisms of cellular actions
R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
P01HL-19242-02 0006 Study of vascular smooth muscle - The contractile system of vascular smooth muscle (swine, rats)
R01HL-19425-03 Cardiac function in hypertrophy (dog)
R01HL-19461-03 Myocardial energetics in hypertrophy and heart failure (rabbits)
R01HL-19467-03 Regulation of blood pressure (rats, dogs)
** R01HL-19485-03 Calcium uptake by normal and failed cardiac ATPase (dogs)
R01HL-20262-02 Cardiac glycosides and the mechanism of the sodium-potassium pump
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
P01HL-20592-02 0001 Cell biology of cardiac and skeletal muscle - Molecular mechanism of muscle contraction (animals)
R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
R01HL-20878-02 Cellular aspects of lung injury (rats, rabbits)
P01HL-20984-02 0001 Cellular mechanisms in cardiac hypertrophy - Contractile proteins in cardiac hypertrophy (rabbits, calves)
P01HL-20984-02 0002 Cellular mechanisms in cardiac hypertrophy - Thermodynamic, fluorescence, chemical modification of hypertrophied heart myosin
** P01HL-20984-02 0003 Cellular mechanisms in cardiac hypertrophy - Fast-kinetics of myosin ATPase from normal and hypertrophied heart (rabbits)
P01HL-20984-02 0004 Cellular mechanisms in cardiac hypertrophy - Myofibril accumulation in cardiac and vascular muscle cells in hypertrophy
P60HL-20985-01 0004 Northern California sickle cell center - Characterization of irreversibly sickled cells (human)
R01HL-21014-01 Mechanism of the inotropic action of cardiac glycosides

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-21030-01 Calcium regulation and hypertension (rats)
R23HL-21196-02 Digitalis induced arrhythmia and NAD KD-atpase activity (dogs)
R23HL-21413-D2 Structure and function of platelet calcium-binding protein (human)
R01HL-21457-01 C(17)-side group geometry and cardenolide activity (cats, guinea pigs)
R01HL-21493-02 Contractility in cardiac failure (hamsters)
R01HL-21525-02 Effect of cations, anions and water upon blood vessels (dogs, rats)
R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
RD1HL-21820-01 Regulatory role of myosin in cardiac hypertrophy (dogs)
R01HL-21850-01 Calcium transport in the hypertrophied myocardium (rats, animals)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)
** R01HL-22174-01 Assembly of membranes in heart and yeast mitochondria
R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
R01HL-22361-01 Regulation of cardiac adaptation to exercise (rats)
M P01HL-22619-01 Cellular mechanisms of heart failure
** P01HL-22619-01 0001 Cellular mechanisms of heart failure - Cell membrane isolation and reconstitution (dogs, lambs)
** P01HL-22619-01 D002 Cellular mechanisms of heart failure - Structure of sodium, potassium-adenosine triphosphatase (lambs, dogs)
** P01HL-22619-D1 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
** P01HL-22619-01 0004 Cellular mechanisms of heart failure - Mechanism of action of Na, K-ATPase (sheep, cattle)
** P01HL-22619-01 0005 Cellular mechanisms of heart failure - Molecular mechanism of regulation of cardiac muscle contraction (cattle)
** P01HL-22619-D1 0006 Cellular mechanisms of heart failure - Phosphorylation of contractile proteins in cardiac muscle contraction (dogs, rabb
** P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
P01HL-22619-01 D010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R01HL-22813-01 Palmitylcarnitine inhibition of ion pumps in ischemia (dogs)
R01HL-22845-01 Response of cardiac myosin to hypertrophic stress (rabbits)
R01HL-23128-01 Cardiac contractility--Ischemia and hypoxia (rabbits, rats)
R01HL-23161-01 0002 Biology of myocardial ischemia - Palmitylcarnitine inhibition of ion pumps in myocardial ischemia (dog, sheep)
R01HL-2320D-D1 Isolation of CA binding proteins from erythrocytes (human)
R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)
R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)
R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
RD1HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses
** R01HL-23994-01 Biochemical properties of human cardiac myosin

PHOSPHATES

SEE ALSO CARBAMYL PHOSPHATE
SEE ALSO NUCLEOTIDES
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)
PD1HL-13262-07 0016 Arterial wall in atherosclerosis - Lipids in elastin preparations from atherosclerotic plaques (human, animals)
R01HL-15983-04 Regional myocardial blood flow (dogs)
R01HL-16658-D5 Intrarenal regulation of sodium reabsorption
R01HL-17494-D7 Mechanism of ligand binding to hemoglobin (human)
R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)
R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
P01HL-20552-02 0D10 The development and regression of cardiac hypertrophy - Energy metabolism in the hypertrophied heart animals
R01HL-21786-01 Long-term effects of myocardial protection (dogs, rats)
R01HL-22845-01 Response of cardiac myosin to hypertrophic stress (rabbits)
RD1HL-23153-01 Mechanisms of altered CA20 transport in ischemic heart (dog, rabbit)

PHOSPHATES, ALKYL PHOSPHATES, ETIDRONATE

RD1HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)

PHOSPHATES, FLUOROPHOSPHATES, DFP

P01HL-18576-03 0D05 Thrombosis research program project - Molecular basis of von Willebrand's disease and hemophilia (human, cattle)

PHOSPHATES, POLYPHOSPHATES

R01HL-18607-D3 Metabolic and drug studies on experimental fat embolism (mice)
R01HL-19011-03 Smooth muscle cell membrane glycoprotein biosynthesis (cattle)

PHOSPHATES, PYROPHOSPHATES

P50HL-17669-04 DD09 Ischemic heart disease center (SCOR) - Infarct volume--99Tc stannous pyrophosphate myocardial scintigrams (dogs, human)
P50HL-17669-D4 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)

PHOSPHATIDES

SEE PHOSPHOLIPIDS

PHOSPHATIDIC ACIDS

SEE PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PHOSPHATIDIC ACIDS

PHOSPHATIDYL AMINO ACIDS

SEE AMINO ACIDS

PHOSPHATIDYL CHOLINE

SEE PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, LECITHINS

PHOSPHATIDYLCHOLINE CHOLINEPHOSPHOHYDROLASE

SEE PHOSPHOLIPASE, PHOSPHATIDYLCHOLINE CHOLINEPHOSPHOHYDROLASE

PHOSPHATIDYLCHOLINE-CHOLESTEROL:TRANSESTERASE

SEE TRANSACYLASES, LECITHIN-CHOLESTEROL TRANSESTERASES

PHOSPHATIDYLCHOLINE PHOSPHATIDOHYDROLASE

SEE PHOSPHOLIPASE, PHOSPHATIDYLCHOLINE PHOSPHATIDOHYDROLASE

PHOSPHATIDYL ETHANOLAMINE

SEE PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PHOSPHATIDYL ETHANOLAMINE

PHOSPHATIDYL INOSITOL

SEE PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PHOSPHOINOSITIDES

PHOSPHATIDYL POLYGLYCEROL

SEE PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, CARDIOLIPINS

PHOSPHATIDYL SERINE

SEE PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PHOSPHATIDYL SERINE

PHOSPHATURIA

SEE CALCIUM (MINERAL) IMBALANCES, PHOSPHORUS IMBALANCE

PHOSPHOARYLS

** R01HL-11418-09 Poly-diaminophosphazenes

PHOSPHOCREATINE

SEE AMINO ACIDS, CREATINE PHOSPHATE

PHOSPHODIESTERASE INHIBITORS

SEE ENZYME INHIBITORS, PHOSPHODIESTERASE INHIBITORS

PHOSPHODIESTERASES

SEE ALSO NUCLEASES
SEE ALSO NUCLEASES, CYCLIC NUCLEOTIDE PHOSPHODIESTERASE
SEE ALSO PHOSPHOLIPASE
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-12738-10 0134 Physiologic pharmacology and its clinical applications - Adenylate cyclase and cAMP phosphodiesterase in cardiac development (dogs)
RD1HL-1274D-10 Hypocholesterolemic agents--Stereochemistry (rats)
R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
R01HL-15696-06 Mechanism and role of cyclic GMP in heart (animals)
RD1HL-16233-05 Molecular cardiology of MOP-induced left ventricular failure (dogs)
R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
P50HL-18318-D3 DD15 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
PD1HL-18827-02 DD05 Platelet vessel wall interactions in thrombogenesis - Platelet vessel wall interactions in thrombogenesis (human)
RD1HL-18937-D3 Cyclic nucleotides and calcium in platelets (human)
RD1HL-19027-D3 Calcium and cyclic AMP in causation of hypertension (rats)
RD1HL-19D57-D3 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
RD1HL-2D782-01 Coronary flow regulation by adenosine (rats, dogs)
R01HL-2D956-02 Early events following stimulation of human platelets
R23HL-21320-D2 Cyclic nucleotide metabolism in vascular endothelium
R23HL-21413-D2 Structure and function of platelet calcium-binding protein (human)
RG1HL-225D2-01 Role of phosphoinositides in human platelet secretion
RD1HL-22828-01 Adenosine and catecholamine interaction in the heart (rats)

PHOSPHOFRUCTOKINASE

SEE PHOSPHOTRANSFERASES, ATP:D-FRUCTOSE-6-PHOSPHATE 1-PHOSPHOTRANSFERASE

PHOSPHOGLUCONATE DEHYDROGENASE

SEE OXIDOREDUCTASES, PHOSPHOGLUCONATE DEHYDROGENASE

PHOSPHOGLUCONATE PATHWAY

SEE PENTOSE PATHWAYS, HEXOSE MONOPHOSPHATE PATHWAY

PHOSPHOGLYCERATE KINASE

SEE PHOSPHOTRANSFERASES, ATP:D-3-PHOSPHOGLYCERATE 1-PHOSPHOTRANSFERASE

PHOSPHOGLYCERATE KINASE DEFICIENCY

SEE METABOLIC DISORDERS INBORN, PHOSPHOGLYCERATE KINASE DEFICIENCY

PHOSPHOGLYCERIDES

SEE PHOSPHOLIPIDS, PHOSPHOGLYCERIDES

PHOSPHOGLYCEROMUTASE

SEE PHOSPHOMUTASES, PHOSPHOGLYCEROMUTASE

PHOSPHOINOSITIDES

SEE PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PHOSPHOINOSITIDES

PHOSPHOLIPASE

P01HL-08214-15 0025 Chemical and biological properties of lipids - Biosynthesis and biological functions of plasmalogen (cattle)
P01HL-08214-15 DD27 Chemical and biological properties of lipids - Biological functions diol lipids (swine, rats, plants)
PD1HL-13262-07 0D22 Arterial wall in atherosclerosis - Mechanisms of platelet prostaglanoin formation
P50HL-15062-07 0007 Study of lipoproteins, artery wall, and atherosclerosis - Physical chemistry of lipid-protein interaction (human)
P60HL-17269-04 0018 National heart and blood vessel research and demonstration center - Mitochondria and energetics (rabbits, dogs)
RD1HL-19D10-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
RD1HL-20793-D2 Phospholipids and cardiac receptor function
R01HL-22052-D1 Organization of free cholesterol in serum lipoproteins (human, dogs)
R01HL-23142-D1 Mechanisms of membrane injury in myocardial ischemia (dog)

PHOSPHOLIPASE, LECITHINASE A

P01HL-06285-18 D21D Cardiovascular-respiratory physiology and biochemistry - Physicochemical and enzymatic studies of lung surfactant (Halobacterium)
** P01HL-06835-17 0034 Cardiovascular disease - Studies of phospholipase A2 in serum (rats, dogs)
RD1HL-14397-07 Hypertension--Angiotensin and prostaglandin pharmacology (animals)
R01HL-14890-07 Platelet prostaglandins (human, rabbits)
** P50HL-15062-07 DD08 Study of lipoproteins, artery wall, and atherosclerosis - Lipid modifying enzymes (human, monkey)
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
PD1HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
P01HL-18577-D3 DDD3 Lipoproteins--Cell surface interactions - Mechanism of lipid exchange in lipoproteins and cell membranes
P5DHL-18828-03 0008 Specialized center of research in thrombosis - Biochemistry, physiology--Platelets and subcellular platelet particles (human)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
** R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
** R23HL-21490-02 Studies of enzymes in human platelet membranes

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-21628-02 Biosynthesis of lung surfactant lipid (rabbit)
R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
R23HL-22075-01 Metabolism of arachidonic acid in blood vessels (chickens, mammals)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
R01HL-22951-01 Studies on the affect of vitamin E on platelets (human, rats)

PHOSPHOLIPASE, PHOSPHATIDYLCHOLINE CHOLINEPHOSPHOHYDROLASE

P01HL-11351-12 0009 Cellular and molecular mechanisms of myocardial function - Myocardial membrane surface coat (rats, rabbits)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)

PHOSPHOLIPASE, PHOSPHATIDYLCHOLINE PHOSPHATIDOHYDROLASE

R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions

PHOSPHOLIPASE A

SEE PHOSPHOLIPASE, LECITHINASE A

PHOSPHOLIPASE C

SEE PHOSPHOLIPASE, PHOSPHATIOYLCHOLINE CHOLINEPHOSPHOHYOROLASE

PHOSPHOLIPASE D

SEE PHOSPHOLIPASE, PHOSPHATIOYLCHOLINE PHOSPHATIOOHYOROLASE

PHOSPHOLIPIDS

N01HI-32926-10 Analysis of lipoproteins (animals)
R01HL-01770-26 Structural aspects of lung surfactant system (rats)
** R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)
R01HL-02986-21 Zonal renal change with potassium deficiency (rats, human)
R01HL-03734-18 Metabolism of arterial tissue in atherosclerosis (rabbits)
P01HL-06285-18 0210 Cardiovascular-respiratory physiology and biochemistry - Physicochemical and enzymatic studies of lung surfactant (Halobacterium)
** P01HL-06314-17 0051 Immunologic mechanisms in cardiovascular disease - Conformational studies of phospholipid membranes and proteins
P01HL-06835-17 0018 Cardiovascular disease - Fatty acid concentration (rats)
** P01HL-08214-15 0025 Chemical and biological properties of lipids - Biosynthesis and biological functions of plasmalogen (cattle)
P01HL-08214-15 0027 Chemical and biological properties of lipids - Biological functions diol lipids (swine, rats, plants)
P01HL-08214-15 0040 Chemical and biological properties of lipids - Nuclear magnetic resonance studies of lipids
R01HL-10933-13 Fat metabolism and atherosclerosis (rabbits, cattle, human, rats)
** R01HL-10940-13 Lipid transport (rabbits, cattle, chickens)
R01HL-12528-10 NMR relaxation of liquid crystal systems
** R01HL-12760-09 Surface studies of membrane lipids and proteins
R01HL-12820-09 In vitro regulation of prothrombin activation
P01HL-13262-07 0022 Arterial wall in atherosclerosis - Mechanisms of platelet prostaglanoin formation
** P01HL-13262-07 0025 Arterial wallin atherosclerosis - Phospholipid and cholesterol esters
R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)
** R01HL-13587-06 Synthesis of renin inhibitors and analog phosphatides (rats)
** R01HL-13715-08 Myocardial adenyl cyclase (rats)
R01HL-14111-07 Cholesteryl esters in membranes and atherosclerosis (human, swine)
** P50HL-14147-08 0003 Specialized center of research in thrombosis - Surface thrombogenicity and phospholipid vesicle physical properties
P50HL-14147-08 0013 Specialized center of research in thrombosis - Mathematical models of blood coagulation kinetics
P50HL-14147-08 0014 Specialized center of research in thrombosis - Theoretical models for electrostatic effects in blood clot formation
P50HL-14147-08 0015 Specialized center of research in thrombosis - Charge related properties of phospholipid surfaces in monolayers and vesicles
P50HL-14214-07 0022 Newborn lung center for hyaline membrane disease - Functional integrity of surfactant system–Hyaline membrane disease (lamb, rat)
P50HL-14230-07 0092 A/S SCOR–Lipids, atherosclerosis and thrombosis - Tissue lipids–Cell culture studies (human)
P50HL-14236-05 0008 Prevention of premature arteriosclerosis - Lipoproteins of cell membranes (human)
R01HL-14397-07 Hypertension–Angiotensin and prostaglandin pharmacology (animals)
R01HL-14820-07 Factors affecting physiology of biological membranes (human)
P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
** P50HL-15062-07 0007 Study of lipoproteins, artery wall, and atherosclerosis - Physical chemistry of lipid-protein interaction (human)
P50HL-15062-07 0021 Study of lipoproteins, artery wall, and atherosclerosis - Core laboratories
R01HL-15478-05 Lipid flux and collagen synthesis in atherosclerosis (rabbits)
R01HL-15528-05 Renin kinetics in hypertensive and uremic plasma (human, dogs)
R01HL-15646-03 Lipid studies in vascular smooth muscle cells (human, monkeys)
R01HL-16059-06 Structure and function of serum lipoproteins (cattle, human)
R01HL-16101-05 Protein-lipid interaction (bacteria, models)
P01HL-16117-05 0003 Ion movements and membranes in cardiovascular control - Fast kinetic study of calcium membrane interactions
P01HL-16137-05 0013 Alveolar biology - Development and pathology of surfactant–Formation of alveolar (rabbits, sheep)
R01HL-16318-21 Biochemistry and pharmacology of Na-K transport
P01HL-16607-05 0001 Calcium ion and control of cardiovascular function - Bilayer lipid membranes, antibiotic probes, and SR function
R01HL-16628-05 Regulation of lipid metabolism (rats)
** R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions
P01HL-16851-04 0001 Human red cell membrane in health and disease - Rheology of erythrocyte membrane (human, amphiuma)
P60HL-17269-04 0014 National heart and blood vessel research and demonstration center - Physio-chemical nature of lipid deposits in arterial wall (human)
P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
P60HL-17269-04 0018 National heart and blood vessel research and demonstration center - Mitochondria and energetics (rabbits, dogs)
R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
R01HL-17559-03 Structural elucidation of heart cytochrome-C oxidase
R01HL-17597-05 Role of plasma lipoproteins in atherosclerosis (swine, human)
** P50HL-17648-04 0027 Study of ischemic heart disease - Phospholipid metabolism following cardiac injury and repair (rat)
P01HL-17812-04 0004 Thrombosis and plasma proteins - Serum-platelet interaction (human)
R01HL-17878-04 Structural studies of the human erythrocyte membrane
R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
R01HL-18048-04 Dynamics of artificial and biological membranes (human)
R01HL-18219-04 Regulation of cholesterol metabolism (rats)
R01HL-18249-04 Isolation and identification of platelet membrane (human)
R01HL-18255-04 Lipid-protein interactions and calcium transport (models)
P01HL-18574-03 0005 Lipoprotein methodology and biomedical applications - Structure and function of lipoproteins
R01HL-18586-03 Role of platelet lipids in hemostasis and thrombosis (human)
R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
P01HL-18645-03 0001 Biology of the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
P01HL-18708-03 0003 Oxygen, energy and contractility in cardiac tissue - Structural-functional studies on cytochrome c oxidase
P01HL-18708-03 0004 Oxygen, energy and contractility in cardiac tissue - Structural-functional studies on sarcoplasmic reticulum (rabbits)
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
P01HL-18827-02 0003 Platelet vessel wall interactions in thrombogenesis - Tumor cell and platelets in thrombogenesis and metastasis (human, animals)
R01HL-18852-03 Biochemical studies on the blood coagulation process (human, cattle)
** R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)
P50HL-19185-02 0001 Pulmonary SCOR–Neonatal respiratory distress syndromes - Sites of synthesis, secretion and structure of surface active material (rat)
P50HL-19185-02 0002 Pulmonary SCOR–Neonatal respiratory distress syndromes - Biochemistry, ultrastructure–Pulmonary surface active material (human, animal)
** P50HL-19187-02 0002 Pediatric pulmonary SCOR–Hyaline membrane disease - Hyaline membrane disease–Alterations in surface active material (monkeys)
P50HL-19187-02 0003 Pediatric pulmonary SCOR–Hyaline membrane disease - Hyaline membrane disease–Ultrastructure studies (monkey)
P50HL-19187-02 0004 Pediatric pulmonary SCOR–Hyaline membrane disease - Hyaline membrane disease–Surface active material, lamellar bodies (mice, rats)
P50HL-19190-02 0003 Pulmonary SCOR–Pathophysiology, management of IRDS - Type II cells–Regulation and differentiation (rat)
R01HL-19282-03 Regulation of the activation of human factor X
R01HL-19392-03 Spectroscopic studies of respiratory metalloproteins
R01HL-19459-03 Dynamics of atherogenesis and lipoprotein formation (human, rabbit)
R23HL-19605-01 Lipid requirement of the lung mono-oxygenase system (rabbits)
R01HL-19676-02 Physico-chemical interactions in pulmonary surfactant
P01HL-19737-02 0001 Cellular and molecular aspects of respiratory physiology - Fatty acid metabolism in type II alveolar cells (rats)
** R01HL-19752-03 Phospholipid synthesis by fetal lung in organ culture (rats)
R01HL-19982-02 Blood coagulation–Protein-metal ion-lipid interactions
R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
R01HL-20189-01 Effects of renin on atherogenesis (rabbits)
R01HL-20303-03 Cholesterol distribution in erythrocyte membrane (human, animals)
R01HL-20350-02 Crystal structure of lipids–Cholesterol
R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)
R01HL-20787-02 Thromboxanes and prostaglandins–Biochemical pharmacology (rabbits, human)
** R01HL-20793-02 Phospholipids and cardiac receptor function
R01HL-21008-02 Effect of pollutants on organotypic lung cultures (rats)
R01HL-21176-02 Phospholipid exchange proteins in lung tissue (lambs)
R23HL-21208-02 Structure-function relationships of human factor VIII
R01HL-21246-02 Roles of cholesterol and its metabolic regulation (CHO cell mutants)
R01HL-21460-02 Lipoproteins, hemostasis and atherosclerosis (human, rabbits)
R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)
R01HL-21975-01 Studies on normal and abnormal factor IX (human, dogs, cows)
R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
R01HL-22052-01 Organization of free cholesterol in serum lipoproteins (human, dogs)
R01HL-22219-01 Prostacyclin and peroxides in blood and membrane disease
R01HL-22570-01 Interactions of sterols in biological systems (human)
P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)
R01HL-22682-01 Structure and function of high density lipoprotein (human, rat)
R01HL-22771-01 Thrombogenic phospholipid surfaces (cattle)
R01HL-22813-01 Palmitylcarnitine inhibition of ion pumps in ischemia (dogs)
R01HL-22883-01 Lung epithelial cell interactions in vitro
R23HL-22895-01 Smoke inhalation–Biochemical and cellular responses (rabbits, bacteria)
R01HL-22955-01 inetics of prothrombin activation
R01HL-23003-01 Bulk-surface distribution of cholesteryl esters
R01HL-23108-01 Membrane biochemistry of RH antigens (human)
R01HL-23392-01 Membrane binding and transport of calcium and potassium ionophores
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)
R01HL-23981-01 Acute alveolar injury (dogs)

PHOSPHOLIPIDS, GLYCEROPHOSPHORIC ESTERS, GLYCEROPHOSPHORYLCHOLINE

** R01HL-19669-03 Lung organ culture and surfactant biosynthesis (adult and fetal rats)

PHOSPHOLIPIDS, LYSOPHOSPHOLIPIDS

SEE ALSO PHOSPHOLIPIOS, PHOSPHOGLYCERIOES, LYSOLECITHIN

** R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-23142-01 Mechanisms of membrane injury in myocardial ischemia (dog)
R01HL-23166-01 Pathology of mitochondria in ischemic myocardium (rats, cattle)

PHOSPHOLIPIDS, PHOSPHOGLYCERIDES
R01HL-02063-23 Biochemistry and function of lipidsand cell membranes (human, yeast, animals)
R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)
R01HL-13587-06 Synthesis of renin inhibitors and analog phosphatides (rats)

PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, CARDIOLIPINS
P50HL-17648-04 0027 Study of ischemic heart disease - Phospholipid metabolism following cardiac injury and repair (rat)

PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, LECITHINS
R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)
P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
P01HL-06285-18 0209 Cardiovascular-respiratory physiology and biochemistry - Metabolic studies of isolated lung cells (human, animals)
P01HL-06835-17 0015 Cardiovascular disease - Plasma cholesterol esterification in canine atherosclerosis
** P01HL-07896-15 0058 Environmental biomedical research program - Lung synthesis of disaturated phosphatidylcholine (rats, dogs, bats)
P01HL-08214-15 0040 Chemical and biological properties of lipids - Nuclear magnetic resonance studies of lipids
R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
P01HL-13262-07 0022 Arterial wall in atherosclerosis - Mechanisms of platelet prostaglanoin formation
P50HL-14147-08 0003 Specialized center of research in thrombosis - Surface thrombogenicity and phospholipid vesicle physical properties
P50HL-14214-07 0015 Newborn lung center for hyaline membrane disease - Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal)
P50HL-14214-07 0021 Newborn lung center for hyaline membrane disease - Development of surfactant system--Surfactant production and release (rat, rabbit)
P50HL-15062-07 0007 Study of lipoproteins, artery wall, and atherosclerosis - Physical chemistry of lipid-protein interaction (human)
** R01HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions
R01HL-16725-03 Physiological regulation of pulmonary surfactant (dogs, rats)
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
R01HL-16807-02 Lipid structure of normal and hyperlipoproteins (human)
P60HL-17269-04 0009 National heart and blood vessel research and demonstration center - Physical methods laboratory (high density lipoproteins)
P60HL-17269-04 0013 National heart and blood vessel research and demonstration center - Peptide synthesis laboratory (human)
P60HL-17269-04 0015 National heart and blood vessel research and demonstration center - Lipoprotein metabolism laboratory (human)
** P60HL-17269-04 0046 National heart and blood vessel research and demonstration center - Nuclear magnetic resonance laboratory
R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
R01HL-17576-04 Role of sphingomyelin in biomembranes and bilayers (rats, other mammals)
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
P50HL-19185-02 0001 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sites of synthesis, secretion and structure of surface active material (rat)
P50HL-19187-02 0002 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Alterations in surface active material (monkeys)
R01HL-19485-03 Calcium uptake by normal and failed cardiac ATPase (dogs)
R01HL-19676-02 Physico-chemical interactions in pulmonary surfactant
P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
R01HL-21008-02 Effect of pollutants on organotypic lung cultures (rats)
** R01HL-21176-02 Phospholipid exchange proteins in lung tissue (lambs)
** R23HL-21251-01 Metabolism of neutral lipids in the pulmonary alveolus (rabbits)
** R01HL-21628-02 Biosynthesis of lung surfactant lipid (rabbit)
** R01HL-22500-01 Conversion of choline to phosphatidylcholine in lung (rabbits, pigs)
R01HL-22682-01 Structure and function of high density lipoprotein (human, rat)
R01HL-23969-01 Surfactant synthesis by type II cells in vitro (rats)

PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, LYSOLECITHIN
R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
P01HL-12157-11 0037 Functions and mechanisms of cell membrane ion transport - Developing structure of heart cells in tissue culture
P01HL-12157-11 0055 Functions and mechanisms of cell membrane ion transport - Growth and development of synthetic strand heart cells in culture (chick embryo)
R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
R01HL-13567-06 Ion transport across cell membranes (human)
P60HL-17269-04 0009 National heart and blood vessel research and demonstration center - Physical methods laboratory (high density lipoproteins)
R01HL-17597-05 Role of plasma lipoproteins in atherosclerosis (swine, human)
R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)

PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PHOSPHATIDIC ACIDS
P01HL-08214-15 0030 Chemical and biological properties of lipids - Fatty acid biosynthesis in plant cell cultures and in plants

PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PHOSPHATIDYL ETHANOLAMINE
R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
P50HL-14147-08 0003 Specialized center of research in thrombosis - Surface thrombogenicity and phospholipid vesicle physical properties
R01HL-17878-04 Structural studies of the human erythrocyte membrane

PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PHOSPHATIDYL SERINE
R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
** P01HL-03174-23 0009 Mechanisms of acute vascular reaction to injury - Mast cell lipid interaction (human, rats)
** R01HL-13715-08 Myocardial adenyl cyclase (rats)
P50HL-14147-08 0003 Specialized center of research in thrombosis - Surface thrombogenicity and phospholipid vesicle physical properties
R01HL-18272-03 Heart adenyl cyclase complex (beef heart)
R01HL-20411-03 Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig)

PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PHOSPHOINOSITIDES
P01HL-13262-07 0022 Arterial wall in atherosclerosis - Mechanisms of platelet prostaglanoin formation
R01HL-13715-08 Myocardial adenyl cyclase (rats)
** R01HL-15567-05 Cardiovascular phosphoinositide metabolism (rats)
R01HL-18272-03 Heart adenyl cyclase complex (beef heart)
** R01HL-22502-01 Role of phosphoinositides in human platelet secretion

PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PLASMALOGENS
** P01HL-08214-15 0025 Chemical and biological properties of lipids - Biosynthesis and biological functions of plasmalogen (cattle)
P01HL-08214-15 0040 Chemical and biological properties of lipids - Nuclear magnetic resonance studies of lipids

PHOSPHOLIPIDS, PHOSPHOSPHINGOLIPIDS, SPHINGOMYELINS
R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)
R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
P50HL-15062-07 0007 Study of lipoproteins, artery wall, and atherosclerosis - Physical chemistry of lipid-protein interaction (human)
P60HL-17269-04 0009 National heart and blood vessel research and demonstration center - Physical methods laboratory (high density lipoproteins)
** R01HL-17576-04 Role of sphingomyelin in biomembranes and bilayers (rats, other mammals)
P50HL-19187-02 0002 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Alterations in surface active material (monkeys)
R01HL-23003-01 Bulk-surface distribution of cholesteryl esters

PHOSPHOMONOESTERASES, ACID PHOSPHATASE
R01HL-13885-08 0008 Cystic fibrosis and pulmonary disease - Pseudomonas specific activation of alveolar macrophages (human, rabbits)
P01HL-16748-05 0006 Cellular and immunological basis of pulmonary diseases - Sarcoidosis-Studies with bronchial lavage (human)
P50HL-17669-04 0011 Ischemic heart disease center (SCOR) - Lysosomal function and lysosomal enzymes in normal and ischemic heart (rabbit)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
P50HL-19185-02 0002 Pulmonary SCOR-Neonatal respiratory distress syndromes - Biochemistry, ultrastructure-Pulmonary surface active material (human, animal)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)

PHOSPHOMONOESTERASES, ALKALINE PHOSPHATASE
SEE ALSO METABOLIC DISORDERS INBORN, HYPOPHOSPHATASIA
P60HL-16008-06 0015 Wayne State University comprehensive sickle cell center - Trace elements in sickle cell disease (human)
P50HL-19171-02 0008 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Electron microscopy, radioautography, histochemistry
R01HL-21030-01 Calcium regulation and hypertension (rats)

PHOSPHOMONOESTERASES, FRUCTOSE 1,6-DIPHOSPHATASE
P01HL-12157-11 0051 Functions and mechanisms of cell membrane ion transport - Electron transport in the red cell membrane (human, guinea pigs)
R01HL-17976-18 Chemical agents and heart glycolytic enzymes (sheep)

PHOSPHOMONOESTERASES, GLUCOSE-6-PHOSPHATASES
SEE ALSO METABOLIC DISORDERS INBORN, GLYCOGENOSIS
R01HL-13885-08 0008 Cystic fibrosis and pulmonary disease - Pseudomonas specific activation of alveolar macrophages (human, rabbits)

PHOSPHOMONOESTERASES, 5'-NUCLEOTIDASE
R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
** R01HL-22486-01 Enzyme regulation in cultured arterial cells (swine)

PHOSPHOMUTASES, PHOSPHOGLYCEROMUTASE
R01HL-16647-05 Studies on the control of sickle cell crisis (human)

PHOSPHONATES
R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)

PHOSPHONATES, DIPHOSPHONATES
** P50HL-14230-07 0094 A/S SCOR--Lipids, atherosclerosis and thrombosis - Studies of atherosclerosis and regression (monkeys)
** P60HL-15999-05 0021 Miami comprehensive sickle cell center - Diphosphonates--Erythrocyte calcium loading, maturation (human, chick embryo)

PHOSPHOPROTEIN KINASES
SEE PHOSPHOTRANSFERASES, ATP:PHOSPHORYLASE PHOSPHOTRANSFERASE
SEE PHOSPHOTRANSFERASES, ATP:PROTEIN PHOSPHOTRANSFERASE

PHOSPHOPROTEINS
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
R01HL-21030-01 Calcium regulation and hypertension (rats)
** R01HL-21995-01 Protein phosphorylation and adrenergic effects
** R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

PHOSPHORAMIDES
R01HL-18679-04 Synthetic protease inhibitors

PHOSPHORUS
** R01HL-22080-01 Phosphorus NMR studies on cardiac tissue (rats, rabbits)

PHOSPHORUS BALANCE (METABOLISM)
SEE CALCIUM (MINERAL) BALANCE, PHOSPHORUS BALANCE (METABOLISM)

PHOSPHORUS COMPOUNDS (GENERAL)
R01HL-13531-06 Coboglobins--Cobalt substituted myo- and hemoglobins

PHOSPHORUS IMBALANCE
SEE CALCIUM (MINERAL) IMBALANCES, PHOSPHORUS IMBALANCE

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

PHOSPHORYLASE, MUSCLE A AND B
SEE GLYCOSYLTRANSFERASES, 1,4-ALPHA-0-GLUCAN:ORTHOPHOSPHATE ALPHA-GLUCOSYLTRANSFERASE

PHOSPHORYLASE B KINASE
SEE PHOSPHOTRANSFERASES, ATP:PROTEIN PHOSPHOTRANSFERASE

PHOSPHORYLASE KINASE
SEE PHOSPHOTRANSFERASES, ATP:PHOSPHORYLASE PHOSPHOTRANSFERASE

PHOSPHORYLASES
SEE ALSO PHOSPHOTRANSFERASES
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
R01HL-17729-04 Stimulus-response coupling in platelets (human)
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
R01HL-18259-03 Controlled intratissue release of prostaglandins
P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
R01HL-23128-01 Cardiac contractility--Ischemia and hypoxia (rabbits, rats)
** R01HL-23161-01 0003 Biology of myocardial ischemia - Phosphorylase coupling to myocardial sarcoplasmic reticulum (dog)

PHOSPHORYLATION
SEE ALSO OXIOATIVE PHOSPHORYLATION
R01HL-01974-24 Ion-pump in the erythrocyte (rabbits, guinea pigs)
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
R01HL-13029-09 Metabolic regulation of sugar transport (pigeons, rats)
R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
R01HL-13630-08 Control of glycogen synthesis in heart (cattle)
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
P01HL-14388-07 0172 Regulation of the circulation in pathological states - cAMP-dependent protein kinase from heart and vascular smooth muscle (guinea pigs)
R01HL-14990-07 Lipid transport in avian species (chickens)
P60HL-15157-07 0009 Comprehensive center for sickle cell disease - Red cell membrane alterations during sickling (human)
P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
R01HL-15793-06 Molecular aspects of erythrocyte membrane resealing (human)
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
P60HL-16008-06 0018 Wayne State University comprehensive sickle cell center - Hemoglobin S and RBC membranes--Pathogenesis of irreversibly sickled cells
P01HL-16251-06 0008 Membrane-bound enzymes in heart and other tissues - Iron-sulfur centers and phospholipids modulation of succinate dehydrogenase
R01HL-16647-05 Studies on the control of sickle cell crisis (human)
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
** P50HL-17682-04 0024 Study of ischemic heart disease - Phosphorylation of cardiac contractile proteins during ischemia (rat, guinea pig)
R01HL-17976-18 Chemical agents and heart glycolytic enzymes (sheep)
R01HL-18094-04 Regulation of cholesterol biosynthesis (rats)
R01HL-18148-04 Adrenal catecholamine secretion
R01HL-18280-03 Regulation of cardiac contractility and metabolism (rats)
R01HL-18551-03 Spectrin, actin, lipid and red cell membrane structure
R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R01HL-19181-02 Regulation of heart cAMP-dependent protein kinase (rodents)
R01HL-19323-03 Studies of platelet microtubule protein
R01HL-20300-02 Histone H5 and avian erythropoiesis (chickens, rabbits)
R23HL-21128-02 ATP utilization in platelet contractile mechanisms (human, rabbits)
R01HL-21469-01 Active transport and effect of CA00 in sickle cell (human)
R23HL-21488-01 Myosin-linked regulation in vertebrate smooth muscle (calf aorta)
R01HL-21820-01 Regulatory role of myosin in cardiac hypertrophy (dogs)
R01HL-21850-01 Calcium transport in the hypertrophied myocardium (rats, animals)
** R01HL-21995-01 Protein phosphorylation and adrenergic effects
R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
** R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
R01HL-22401-01 Regulation of tension and active state in the heart
P01HL-22619-01 0001 Cellular mechanisms of heart failure - Cell membrane isolation and reconstitution (dogs, lambs)
P01HL-22619-01 0004 Cellular mechanisms of heart failure - Mechanism of action of Na, K-ATPase (sheep, cattle)
** P01HL-22619-01 0006 Cellular mechanisms of heart failure - Phosphorylation of contractile proteins in cardiac muscle contraction (dogs, rabb
P01HL-22619-01 0008 Cellular mechanisms of heart failure - Molecular mechanisms and differential contractile responsiveness in VSM (dogs)
R01HL-22845-01 Response of cardiac myosin to hypertrophic stress (rabbits)
R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)
** R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)
R01HL-23626-01 A study of the regulation of myocardial hypertrophy (rats)
** R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

PHOSPHORYLCHOLINE
SEE ALSO PHOSPHOLIPIOS, GLYCEROPHOSPHORIC ESTERS, GLYCEROPHOSPHORYLCHOLINE
SEE ALSO PHOSPHOLIPIDS, PHOSPHOGLYCERIOES, LECITHINS
SEE ALSO PHOSPHOLIPIOS, PHOSPHOGLYCERIOES, LYSOLECITHIN
SEE ALSO PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PLASMALOGENS
SEE ALSO PHOSPHOLIPIOS, PHOSPHOSPHINGOLIPIDS, SPHINGOMYELINS
P01HL-08214-15 0027 Chemical and biological properties of lipids - Biological functions diol lipids (swine, rats, plants)

PHOSPHOSERINE
SEE AMINO ACIOS, PHOSPHOSERINE

PHOSPHOTRANSFERASES
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
** R01HL-15567-05 Cardiovascular phosphoinositide metabolism (rats)
** R01HL-16101-05 Protein-lipid interaction (bacteria, models)
P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
** R01HL-20300-02 Histone H5 and avian erythropoiesis (chickens, rabbits)
R23HL-21413-02 Structure and function of platelet calcium-binding protein (human)

PHOSPHOTRANSFERASES, ATP:AMP PHOSPHOTRANSFERASE
R01HL-12690-09 Systemic and local vascular adjustment in shock (monkeys, cats)
P50HL-17651-04 0039 Ischemic heart disease specialized center of research - Measurement and prediction of infarct size (human, dog)
R01HL-20878-02 Cellular aspects of lung injury (rats, rabbits)
R01HL-22538-01 Myosin as a multi-enzyme complex (dogs, rabbits)

PHOSPHOTRANSFERASES, ATP:CREATINE PHOSPHOTRANSFERASE
** P01HL-06285-18 0164 Cardiovascular-respiratory physiology and biochemistry - CPK MB isoenzyme concentration to quantify infarct size (human, animals)
P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
P01HL-06312-17 0013 Surgical cardiology - Aortocoronary vein bypass grafting (human)
P01HL-06312-17 0053 Surgical cardiology - Enzyme pattern following cardiac surgery (human)
P01HL-07896-15 0032 Environmental biomedical research program - Fluorometry study of brain exposed to hyperbaric oxygen (dogs, cats)
P01HL-07896-15 0049 Environmental biomedical research program - Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
P01HL-07896-15 0062 Environmental biomedical research program - Vectorcardiograms during diving (human, dogs)
P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
R01HL-11876-11 Regional myocardial blood flow and metabolism (dogs, swine)
P01HL-12157-11 0055 Functions and mechanisms of cell membrane ion transport - Growth and development of synthetic strand heart cells in culture (chick embryo)
P01HL-12373-10 0001 Cardiopulmonary physiology and pathophysiology - Mechanics of myocardial contraction (dogs, rats, swine)
R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
P50HL-17646-04 0002 Study of ischemic heart disease - Core data management
** P50HL-17646-04 0005 Study of ischemic heart disease - Biochemical markers and mediators of myocardial ischemic injury
** P50HL-17646-04 0006 Study of ischemic heart disease - Mathematical models for predicting infarct size using CPK and other markers
** P50HL-17646-04 0007 Study of ischemic heart disease - Prediction of myocardial ischemic injury by analysis of plasma CPK isoenzymes
P50HL-17648-04 0023 Study of ischemic heart disease - Chemical mediators of inflammation in acute myocardial infarction (mammals)
P50HL-17651-04 0036 Ischemic heart disease specialized center of research - Core facilities--Cardiovascular pathology (human, dog)
** P50HL-17651-04 0039 Ischemic heart disease specialized center of research - Measurement and prediction of infarct size (human, dog)
** P50HL-17665-04 0008 Study of ischemic heart disease - Core laboratory--CPK isoenzyme measurement and myocardial necrosis evaluation
P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
** P50HL-17667-04 0043 Study of ischemic heart disease - Quantitation of myocardial infarct size by serial enzyme measurements (human)
P50HL-17669-04 0001 Ischemic heart disease center (SCOR) - Radioimmunoassays for CPK isoenzyme and myoglobin (human, dog)
P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
** P50HL-17670-04 0017 Study of ischemic heart disease - Core enzymology laboratory (human)
** P50HL-17670-04 0021 Study of ischemic heart disease - Enzymatic evaluation of acute myocardial infarction (dogs)
** P50HL-17682-04 0010 Study of ischemic heart disease - Core clinical enzyme laboratory (human, mice, dogs, rats)
P50HL-17682-04 0018 Study of ischemic heart disease - Biochemistry of ischemia--Heart cell and organ culture (mice, rats, cattle)
R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
R01HL-19000-03 Irreversible myocardial injury (rats)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
R01HL-19537-03 Detection of myocardial injury with ultrasound (dogs)
R01HL-19782-02 Pharmacologic studies on the ischemic heart (dogs)
** R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)
R01HL-20199-02 Orug-induced alterations in infarct size in the rat
R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
** P01HL-20552-02 0010 The development and regression of cardiac hypertrophy - Energy metabolism in the hypertrophied heart animals
** R01HL-20658-01 Myocardial energy transport--Creative kinase (human, cattle, dog)
R01HL-21312-01 Sarcomere mechanics in disrupted ventricular muscle (guinea pigs)
R01HL-22538-01 Myosin as a multi-enzyme complex (dogs, rabbits)
R01HL-23970-01 Mechanisms and control of sudden cardiac death (human, dog)
N01HV-62960-00 Techniques to protect ischemic myocardium and minimize infant size (human)

PHOSPHOTRANSFERASES, ATP:DIGLYCERIDE PHOSPHOTRANSFERASE
R01HL-21628-02 Biosynthesis of lung surfactant lipid (rabbit)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

PHOSPHOTRANSFERASES, ATP:D-FRUCTOSE-6-PHOSPHATE 1-PHOSPHOTRANSFERASE

** R01HL-17976-18 Chemical agents and heart glycolytic enzymes (sheep)

PHOSPHOTRANSFERASES, ATP:D-3-PHOSPHOGLYCERATE 1-PHOSPHOTRANSFERASE

R01HL-15125-07 Molecular pathology of genetic disorders in man
R01HL-16647-05 Studies on the control of sickle cell crisis (human)

PHOSPHOTRANSFERASES, ATP:PHOSPHORYLASE PHOSPHOTRANSFERASE

P01HL-12373-10 0012 Cardiopulmonary physiology and pathophysiology - Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons)
R01HL-13630-08 Control of glycogen synthesis in heart (cattle)
R01HL-18280-03 Regulation of cardiac contractility and metabolism (rats)
R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
R01HL-22064-02 Glycogen metabolism in anoxic diabetic myocardium (rats)
R01HL-23161-01 0003 Biology of myocardial ischemia - Phosphorylase coupling to myocardial sarcoplasmic reticulum (dog)

PHOSPHOTRANSFERASES, ATP:PROTEIN PHOSPHOTRANSFERASE

P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
P01HL-12373-10 0006 Cardiopulmonary physiology and pathophysiology - Fatty acid metabolism--Regulation, implications (human, mammals, birds)
R01HL-13630-08 Control of glycogen synthesis in heart (cattle)
R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
** P01HL-14388-07 0172 Regulation of the circulation in pathological states - cAMP-dependent protein kinase from heart and vascular smooth muscle (guinea pigs)
** R01HL-15696-06 Mechanism and role of cyclic GMP in heart (animals)
** R01HL-15764-05 C-AMP dependent protein kinase in cardiac contraction (dogs)
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
P60HL-16005-05 0013 Comprehensive sickle cell center - Study of regulation of erythropoiesis in vitro (human, rat, hamster, rabbit)
R01HL-16233-05 Molecular cardiology of MOP-induced left ventricular failure (dogs)
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
R01HL-18148-04 Adrenal catecholamine secretion
R01HL-18260-04 Cyclic nucleotide metabolism in lung tissue (cattle)
R01HL-18280-03 Regulation of cardiac contractility and metabolism (rats)
R01HL-18682-03 Protein kinase and cholesterol metabolism in aorta (rabbits)
R01HL-18937-03 Cyclic nucleotides and calcium in platelets (human)
R01HL-19027-03 Calcium and cyclic AMP in causation of hypertension (rats)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
** R01HL-19181-02 Regulation of heart cAMP-dependent protein kinase (rodents)
R01HL-19323-03 Studies of platelet microtubule protein
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
R01HL-20114-02 Collagen-platelet interaction and human aorta collagen (human)
** P01HL-20984-02 0006 Cellular mechanisms in cardiac hypertrophy - Early biochemical aspects of cardiac hypertrophy (rats)
R23HL-21320-02 Cyclic nucleotide metabolism in vascular endothelium
R23HL-21421-01 Myocardial and vascular contractility and cyclic nucleotides (cattle, rats)
R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
R01HL-22064-02 Glycogen metabolism in anoxic diabetic myocardium (rats)
R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)
P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
P01HL-22619-01 0009 Cellular mechanisms of heart failure Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R01HL-22828-01 Adenosine and catecholamine interaction in the heart (rats)
** R23HL-22984-01 Cyclic AMP dependent protein kinases in hypertension (rat)
R01HL-23161-01 0003 Biology of myocardial ischemia - Phosphorylase coupling to myocardial sarcoplasmic reticulum (dog)
R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
R01HL-23615-01 Biochemistry of contractile proteins (chicken, rabbit)
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

PHOSPHOTRANSFERASES, ATP:THYMIDINE 5-PHOSPHOTRANSFERASE

P60HL-17269-04 0020 National heart and blood vessel research and demonstration center - Nucleic acid and protein metabolism in growth and development of heart (rat)

PHOTOBIOLOGY

SEE ALSO BIOPERIODICITY, CIRCADIAN RHYTHMS
R01HL-19488-03 Picosecond laser studies of heme-proteins

PHOTOCHEMISTRY

P01HL-06285-18 0211 Cardiovascular-respiratory physiology and biochemistry - Purple membrane of Halobacteria
R01HL-12971-15 Reactions of alkoloids and their analogs
R01HL-16471-05 Cardioactive alloyohimbines and related indole alkaloids
R01HL-19488-03 Picosecond laser studies of heme-proteins

PHOTOCHEMISTRY, PHOTOLYSIS

R01HL-09906-13 0018 Membrane transport processes in red blood cells - Rapid photolytic release of ATP from a protected analog--Na-K pump of RBC ghosts

PHOTOCOAGULATION THERAPY

SEE THERAPY, CAUTERY, PHOTOCOAGULATION THERAPY

PHOTOELECTRIC PLETHYSMOGRAPHY

SEE CARDIOVASCULAR DISORDERS DIAGNOSIS, PLETHYSMOGRAPHY, PHOTOELECTRIC*

PHOTOELECTRON SPECTROMETRY

SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, PHOTOELECTRON*

PHOTOGRAPHY

SEE OPTICS, PHOTOGRAPHY*

PHOTOLYSIS

SEE PHOTOCHEMISTRY, PHOTOLYSIS

PHOTOMICROGRAPHY

SEE OPTICS, PHOTOMICROGRAPHY*

PHOTOPERIODISM

SEE BIOPERIODICITY, CIRCADIAN RHYTHMS

PHOTORECEPTORS IN VISION

SEE EYE, PHOTORECEPTORS

PHOTOTHERAPY

P01HL-08899-14 0061 Tolerance to respiratory gases in health and disease - Hepatic oxygenation and secretory functions (rats, dogs)

PHRENIC NERVE

SEE NERVOUS SYSTEM, SPINAL NERVES, PHRENIC NERVE

PHYLLOQUINONE REDUCTASE

SEE OXIDOREDUCTASES, NAD(P)H DEHYDROGENASE (QUINONE)

PHYLOGENY

SEE BIOLOGY, SYSTEMATIC, EVOLUTION AND PHYLOGENY

PHYSICAL ACTIVITY, EFFORT

SEE HEALTH, PHYSICAL ACTIVITY, EXERCISE

PHYSICAL AND/OR CHEMICAL AGENTS INTERACTION (BIOLOGICAL AND ECOLOGICAL)

R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
** P01HL-14388-07 0207 Regulation of the circulation in pathological states - Brain and renin-angiotension interaction in spontaneous hypertension (rats)
R01HL-19488-03 Picosecond laser studies of heme-proteins
** R01HL-21461-01 Heme group protein interactions in hemoproteins
R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)

PHYSICAL AND/OR CHEMICAL AGENTS INTERACTION (BIOLOGICAL AND ECOLOGICAL), POLLUTANTS INTERACTION

P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
P50HL-15092-07 0010 Immune and fibrotic response to occupational environments - Characterization of toluene diisocyanate in industrial environments
R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
N01HR-32903-11 Pilot study to standardize the measurement of 'closing volume' (human)

PHYSICAL FITNESS

SEE HEALTH, PHYSICAL FITNESS

PHYSICAL PROPERTIES (STATES)(PROCESSES)

SEE ALSO CHEMICAL STRUCTURE
SEE ALSO CHEMISTRY, QUANTUM (GENERAL)
SEE ALSO ENVIRONMENT, ATMOSPHERIC PRESSURE
SEE ALSO ENVIRONMENT, GRAVITY-MOTION
SEE ALSO ENVIRONMENT, STRESS MECHANICAL
SEE ALSO MOLECULAR FRICTIONAL PROPERTIES
SEE ALSO MOLECULAR POLARITY
SEE ALSO MOLECULAR SIZE
SEE ALSO MOLECULAR WEIGHT
SEE ALSO TEMPERATURE (SEE ALSO THERM...)
R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-12760-09 Surface studies of membrane lipids and proteins
R01HL-14111-07 Cholesteryl esters in membranes and atherosclerosis (human, swine)
R01HL-17543-03 0003 Magnetic tracers for diagnosis of lung disease - Occupationally accumulated magnetite for diagnosis of lung disease (human)
R01HL-17878-04 Structural studies of the human erythrocyte membrane
R01HL-18048-04 Dynamics of artificial and biological membranes (human)
R01HL-18441-03 Guidelines for polymers acting as elastin substitutes
** P01HL-19717-02 0004 Response of the lung to injury - Regulatory and physical-chemical properties of lung lysyl oxidase (animals)
** R23HL-20576-01 Airway turbulence and pulmonary oxygen exchange
R01HL-20613-02 Mechanical properties of isolated myocardium
R01HL-22771-01 Thrombogenic phospholipid surfaces (cattle)
R01HL-23003-01 Bulk-surface distribution of cholesteryl esters

PHYSICAL PROPERTIES, ADHESION

SEE ALSO CELL ADHESION
SEE ALSO SURGICAL ADHESIVES
R01HL-01648-31 Blood coagulation and hemophilia (dogs, swine)
R01HL-14344-07 Platelet function and adenine nucleotide metabolism (human)
R01HL-14697-07 Role of platelet membranes in hemostasis (human)
R01HL-15335-06 The nature of the collagen-platelet interaction (animals)
R01HL-15616-04 Platelet membrane proteins in aggregation (human)
R01HL-19278-03 Ristocetin induced platelet aggregation (human)
** R01HL-22951-01 Studies on the affect of vitamin E on platelets (human, rats)
N01HV-52907-04 Interactions of platelets with collagens (human, mammals)

PHYSICAL PROPERTIES, ADSORPTION

P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
P01HL-16851-04 0008 Human red cell membrane in health and disease - Force balance in red cell interactions (human)
R01HL-19700-03 Deposition of hygroscopic aerosols (models)
R01HL-19715-02 Respiratory tract deposition of hygroscopic aerosols (dogs, human)
P01HL-22163-01 0001 Surface thrombogenesis--Mechanisms and prevention - Initial blood protein and platelet interactions with biomaterials (baboons)
N01HV-32917-08 Materials development and testing

PHYSICAL PROPERTIES, AEROSOLS

SEE ALSO PHYSICAL PROPERTIES, FLUID STATE, VAPORS
SEE ALSO PHYSICAL PROPERTIES, PARTICLES, DUST
R01HL-10834-09 Fetal and neonatal pulmonary circulation (goats)
R01HL-16463-05 Localization of airways obstruction and responses

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-17543-03 0001 Magnetic tracers for diagnosis of lung disease - Chronic, interstitial lung disease (human, rabbits)
R01HL-18028-03 Absorption of nonvolatile compounds from the lung
P50HL-19170-02 0004 Harvard pulmonary SCOR--Chronic diseases of the airways - Exercise, increased ventilation effect on airway exposure and responses (rodent)
R01HL-19431-03 Regional mucociliary transport in the human lung
** R01HL-19647-03 Therapeutic aerosols
** R01HL-19700-03 Deposition of hygroscopic aerosols (models)
** R01HL-19722-03 Aerosol growth in the respiratory system (models)
** R01HL-20105-02 Deposition of hygroscopic aerosols in bronchi (dogs, human, models)
R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)
R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)

PHYSICAL PROPERTIES, AEROSOL AND PARTICLE BEAMS

P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
R01HL-20024-03 Therapeutic aerosols--Characteristics and retention (human, dogs)

PHYSICAL PROPERTIES, COALESCENCE

SEE ALSO PHYSICAL PROPERTIES, EMULSIONS
R01HL-17494-07 Mechanism of ligand binding to hemoglobin (human)
R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)

PHYSICAL PROPERTIES, COLLOIDS, COLLOIDAL STATE

SEE ALSO CHEMICAL AGGREGATES, MICELLE FORMATION
SEE ALSO PHYSICAL PROPERTIES, AEROSOLS
SEE ALSO PHYSICAL PROPERTIES, EMULSIONS
SEE ALSO PHYSICAL PROPERTIES, SUSPENSIONS
** R01HL-14826-05 External isotope assay of atherosclerosis (rats, rabbits)
** R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)

PHYSICAL PROPERTIES, COLLOIDS, GELS

P01HL-06285-18 0215 Cardiovascular-respiratory physiology and biochemistry - Conformation of biopolymers
P01HL-13738-08 0005 Cardiac assist devices and artificial hearts - Development of new materials for artificial heart and assist devices (sheep, dog)
P60HL-15157-07 0011 Comprehensive center for sickle cell disease - Development of specific anti-sickling compound (human)
P60HL-15168-07 0009 Comprehensive sickle cell disease center - Spin-label study of sickling (human)
** P01HL-16833-04 0002 Hemoglobin and red cell system in hemoglobinopathies - Polymerization and gel formation in solutions of hemoglobin A and S (human)
** R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
R01HL-18818-04 Stereochemical mechanism of sickling of hemoglobin S (human)
** P01HL-21016-02 0002 Sickle cell anemia and other hemoglobinopathies - Molecular events proceeding gelation of Hb S
** P01HL-21016-02 0003 Sickle cell anemia and other hemoglobinopathies - Role of non-S hemoglobin in gelation and sickling
P01HL-21016-02 0008 Sickle cell anemia and other hemoglobinopathies - The clinical variations of sickle cell anemia
** P01HL-21016-02 0009 Sickle cell anemia and other hemoglobinopathies - Nitrogen mustards and their potential use as antisickling agent
P01HL-21016-02 0010 Sickle cell anemia and other hemoglobinopathies - Alkylureas as potential anti-sickling agents
R01HL-21282-01 Dynamics of interstitial space in whole animals (rats)
R01HL-21498-02 Pathophysiology of edema (rats, cats)
R01HL-22654-01 Molecular structure of sickle cell fibers (human)
** R01HL-22699-01 Defibrillation electrode studies (dogs, swine)
R01HL-23267-01 Rheology and kinetics of hemoglobin S gelation (human)
** N01HV-12017-15 Fabrication of grafted hydrogel coatings for plastic heart assist devices

PHYSICAL PROPERTIES, COLLOIDS, MAGNETIC

** P01HL-13737-07 0024 Assisted circulation - Dynamic prosthetic myocardium (dogs)

PHYSICAL PROPERTIES, CRYSTALS, CRYSTALLIZATION

SEE ALSO CHEMICAL AGGREGATES, MICELLE FORMATION
R01HL-13989-05 Role of water in respiratory protein structure
R01HL-16601-05 Structure and function of blood proteins (human, cattle)
R01HL-18533-03 Microcrystalline and crystalline fibrinogen (cattle, bacteria)
R01HL-18612-03 Thin filament control of heart contraction (cattle)

PHYSICAL PROPERTIES, CRYSTALS, LIQUID

** R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)

PHYSICAL PROPERTIES, DENSITY (SPECIFIC GRAVITY)

P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)

PHYSICAL PROPERTIES, DENSITY, MAGNETIC SUSPENSION METHODS*

N01HV-42961-06 Evaluation of biomaterials in contact with blood (dogs)

PHYSICAL PROPERTIES, DENSITOMETRY*

SEE ALSO CARDIOVASCULAR VISUALIZATION, ROENTGEN VIDEODENSITOMETRY*
R01HL-19003-03 High precision densitometry of coronary angiograms

PHYSICAL PROPERTIES, DIFFUSION

SEE ALSO BIOLOGICAL TRANSPORT, MEMBRANE PERMEABILITY AND TRANSPORT
SEE ALSO BIOLOGICAL TRANSPORT, PASSIVE TRANSPORT, DIFFUSION
SEE ALSO IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNODIFFUSION TESTS*
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
** P01HL-08899-14 0029 Tolerance to respiratory gases in health and disease - Isobaric gas counter diffusion phenomena (human, pigs)
** P01HL-08899-14 0072 Tolerance to respiratory gases in health and disease - Inert gas exchange isobaric gas counterdiffusion and decompression
P01HL-08899-14 0073 Tolerance to respiratory gases in health and disease - Biophysical mechanisms involved in isobaric gas counterdiffusion syndrome
** P01HL-08899-14 0074 Tolerance to respiratory gases in health and disease - Biomathematical analysis of isobaric gas exchange and bubble formation
** P01HL-08899-14 0075 Tolerance to respiratory gases in health and disease - Gas diffusion rates and bubble formation across membranes (animals)
** P01HL-08899-14 0076 Tolerance to respiratory gases in health and disease - Bubble formation during gas counterdiffusion (hamsters)
** P01HL-08899-14 0077 Tolerance to respiratory gases in health and disease - Isobaric gas supersaturation patterns
** P01HL-08899-14 0078 Tolerance to respiratory gases in health and disease - Isobaric gas counterdiffusion--Sensory, cutaneous and systemic function (animals)
** P01HL-08899-14 0079 Tolerance to respiratory gases in health and disease - Physiological factors in counterdiffusion bubble formation (human, pigs)
** P01HL-08899-14 0080 Tolerance to respiratory gases in health and disease - Dynamic quantitation of continuous isobaric gas embolization
P01HL-08899-14 0085 Tolerance to respiratory gases in health and disease - Search for gas bubbles in vestibular fluids (animals)
R01HL-09739-13 Biophysical studies of proteins (human)
R01HL-12528-10 NMR relaxation of liquid crystal systems
** P01HL-14414-07 0004 Environmental influences on cardiorespiratory and cellular functions - Role of diffusion in gas exchange (chicken egg)
** P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
P01HL-15194-07 0009 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Diffusion and erythrocytes reaction rates (human, dogs)
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
R01HL-18022-03 Role of multicomponent diffusion in gas exchange (avian eggs)
R01HL-19139-03 Dispersion of diffusible indicators in the body (human, cats, dogs)
** R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)

PHYSICAL PROPERTIES, ELASTICITY

SEE ALSO PHYSICAL PROPERTIES, VISCOSITY-VISCOELASTICITY
SEE ALSO PLASTICS, ELASTOMERS
** P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
P01HL-10342-13 0006 The integrated function of respiration and circulation - Lung inflation effects on pulmonary vasculature and interstitial space (dogs)
R01HL-11152-12 Vascular physiology (human, cats, dogs)
** P01HL-11310-12 0094 Mechanisms of cardiovascular disease - Physics of pulsatile fluid flow (dogs)
** P01HL-11310-12 0101 Mechanisms of cardiovascular disease - Molecular pathogenesis of vascular disease
** P01HL-13737-07 0035 Assisted circulation - Mapping the geometry and elasticity of the aorta
** P01HL-14388-07 0166 Regulation of the circulation in pathological states - Elastic changes in abdominal aorta with atherosclerosis (Rhesus monkeys)
R01HL-14495-05 Solid and structural mechanics of lungs (mammals)
P01HL-14580-07 0002 Program project in respiratory mechanics - Airway aerodynamics (human, dogs)
P01HL-15832-06 0005 Chemical-structural predispositions to lung injury - Pulmonary structure and stress-strain relationships (rats)
P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
** P50HL-17669-04 0007 Ischemic heart disease center (SCOR) - Relationship between myocardial depression and compliance (dogs, cats)
P01HL-17731-04 0001 Physiological basis of pulmonary disease - Mechanisms of blood flow and ventilation (dogs)
P01HL-17731-04 0002 Physiological basis of pulmonary disease - Biomechanics of the lung (frogs, cats)
R01HL-18676-03 Myocardial sarcomere mechanics (rat)
** R01HL-18931-02 Lung elastic tissue characteristics (swine, human)
** R01HL-19133-03 Contractile and elastic properties of cardiac muscle (cats)
** R01HL-20241-02 Shear and area moduli for abnormal red cell membranes (human)
R23HL-21539-02 Mechanical properties of isolated small bronchioles (rabbits)
P01HL-21584-02 0001 Respiratory mechanics in normal and abnormal states - Engineering analysis of lung deformation (human, animals)
** R01HL-22313-01 Lung elastic recoil--Age and disease (human)
R23HL-22745-01 Vascular mechanics and structure in hypertension (miniature swine)
R23HL-22975-01 Dynamics of autoregulation of muscle blood flow (dogs)
N01HR-62910-02 Fibroprotein networks of pulmonary alveolar wall (human)

PHYSICAL PROPERTIES, EMULSIONS

SEE ALSO PHYSICAL PROPERTIES, COALESCENCE
SEE ALSO PHYSICAL PROPERTIES, SUSPENSIONS
P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
R01HL-15520-06 Total blood replacement by fluorocarbons and polyols (rats)
R01HL-16855-03 Cavitation in biological systems (microorganisms, animals)
P01HL-22633-01 0004 Cellular and molecular biology of lipoprotein metabolism - Lipid-lipid and lipid-protein interactions in serum lipoproteins (human, rats)

PHYSICAL PROPERTIES, FLOWMETERS, STOP FLOW TECHNIQUE*

** R01HL-12879-09 0008 Pulmonary transport and metabolism in vivo - Stop-flow technique for permeability measurements
R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions

PHYSICAL PROPERTIES, FLUID DYNAMICS (GENERAL)

SEE ALSO CARDIOVASCULAR FUNCTION, BLOOD CIRCULATION DYNAMICS (GENERAL)
P01HL-06285-18 0155 Cardiovascular-respiratory physiology and biochemistry - Therapeutic alterations, contractile state in heart failure
P01HL-06285-18 0157 Cardiovascular-respiratory physiology and biochemistry - Left ventricle outflow impedance analysis (human)
R01HL-11717-09 Effect of stenotic obstructions on flow in arteries (dogs)
R01HL-12493-10 Bioengineering analysis of microvascular function (cats, rabbits)
R01HL-12607-10 Dynamics of pulsatile blood flow (human, dogs, rats)
R01HL-15270-06 Local mechanical properties of the aortic tissue (dogs, pigs)
** P01HL-17421-05 0001 Regulation and exchange in the microcirculation - Mass transfer and microcirculatory function (rats)
R01HL-17859-04 Computational methods in cardiac fluid dynamics
R01HL-18426-04 Regulation of renal hemodynamics (dogs)
R01HL-19139-03 Dispersion of diffusible indicators in the body (human, cats, dogs)
R01HL-19454-02 Rheological factors in transport across arterial wall (dogs)
R01HL-20105-02 Deposition of hygroscopic aerosols in bronchi (dogs, human, models)
R01HL-20773-02 Surfactant, pulmonary edema, and lung mechanics (rabbits)
N01HV-72939-01 Develop and evaluate left heart assist blood pumps (human, calves, pigs)

PHYSICAL PROPERTIES, FLUID FLOW

SEE ALSO BLOOD AND RE SYSTEM, LYMPH FLOW

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

SEE ALSO CAROIOVASCULAR FUNCTION, BLOOD FLOW
R01HL-12083-11 Flow field in aorta and its major branches (dogs, phantom modefs)
R01HL-12528-10 NMR relaxation of liquid crystal systems
R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
M P01HL-15194-07 Pathophysiology of cardiopulmonary dysfunction
R01HL-17576-04 Role of sphingomyelin in biomembranes and bilayers (rats, other mammals)
R01HL-18004-02 Transport through arterial wall--Biophysical aspects (rabbits)
R01HL-18255-04 Lipid-protein interactions and calcium transport (models)
P01HL-18576-03 0010 Thrombosis research program project - Evaluation of non-thrombogenic materials (cattle)
** R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
R01HL-22463-02 Pinocytotic vesicles and pulmonary edema (rats)
N01HV-12017-15 Fabrication of grafted hydrogel coatings for plastic heart assist devices

PHYSICAL PROPERTIES, FLUID FLOW IMPEDANCE

SEE ALSO CAROIOVASCULAR FUNCTION, BLOOD FLOW IMPEDANCE
R01HL-19038-02 Plethysmographic evaluation of carotid blood flow (human, rabbits, dogs)

PHYSICAL PROPERTIES, FLUID STATE

SEE ALSO BOOY FLUIOS (ANO RELATEO SUBSTANCES)
SEE ALSO GASES (GENERAL)
SEE ALSO PHYSICAL PROPERTIES, EMULSIONS
P01HL-13737-07 0024 Assisted circulation - Dynamic prosthetic myocardium (dogs)
R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
R01HL-20882-02 Interactions of plasma lipoproteins with erythrocytes (Rhesus, human)

PHYSICAL PROPERTIES, FLUID STATE, HYDROSTATIC PRESSURE

R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
P01HL-06285-18 0199 Cardiovascular-respiratory physiology and biochemistry - Renal tubular reabsorption of sodium chloride (hamsters, rabbits)
P01HL-06664-17 0037 Cardiopulmonary function in remediable vascular disease - Salt and water balance of cells and tissues (rabbits)
M P01HL-07896-15 Environmental biomedical research program
P01HL-07896-15 0008 Environmental biomedical research program - Otologic studies under hyperbaric conditions (human, animals)
** P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
P01HL-07896-15 0051 Environmental biomedical research program - Relationships of retinal circulation to disease (rabbits)
P01HL-07896-15 0062 Environmental biomedical research program - Vectorcardiograms during diving (human, dogs)
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
** P01HL-08899-14 0022 Tolerance to respiratory gases in health and disease - Effect of inert gas and hydrostatic pressures on physiological functions (monkey)
R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
** P01HL-11678-11 0057 Cardiovascular dynamics and their control - Return of urine to circulation using cystico-caval shunt (dogs)
** P01HL-11678-11 0070 Cardiovascular dynamics and their control - Interaction of the four Starling forces (dogs)
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
P01HL-12157-11 0060 Functions and mechanisms of cell membrane ion transport - Ion transport and electrical properties of giant-celled aiga
M R01HL-12879-09 Pulmonary transport and metabolism in vivo
R01HL-13323-08 Intrarenal pressure and renal function (human, dogs)
R01HL-13437-09 Physical and mechanical parameters in the microcirculation (animals)
P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in RDS (sheep, cat)
** P01HL-14414-07 0010 Environmental influences on cardiorespiratory and cellular functions - Pressure effects on cardiac electrical phenomena (animals)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
** P01HL-14414-07 0016 Environmental influences on cardiorespiratory and cellular functions - Effects of pressure on membrane and cellular function (human, rabbits)
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
P01HL-17421-05 0001 Regulation and exchange in the microcirculation Mass transfer and microcirculatory function (rats)
P01HL-17421-05 0002 Regulation and exchange in the microcirculation Metabolic and myogenic blood flow regulation in microcirculation (animals)
P01HL-17421-05 0003 Regulation and exchange in the microcirculation Transcapillary fluid exchange in rat intestinal muscle, mucosa, and mesentery
R01HL-18426-04 Regulation of renal hemodynamics (dogs)
R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
R01HL-18875-03 Angiotension, prostaglandins, pressure and the kidney (rats)
R01HL-19366-03 Renal Starling forces in experimental conditions (rats, rabbits)
R01HL-19677-03 Venous structure and function (dogs)
R01HL-20652-01 Sites of leakage in pulmonary edema (dogs)
R01HL-20690-02 Pulmonary hemodynamics in lung edema during PEEP (dogs)
R23HL-21050-02 Mechanisms of re-expansion pulmonary edema (rabbits)
R23HL-21382-02 Effect of pressure on renal blood flow and function (dogs)
R01HL-21498-02 Pathophysiology of edema (rats, cats)
R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)
R01HL-22549-02 Transport across alveolar capillary membrane (dogs)
R01HL-22924-01 The airway mucosal barrier (guinea pigs)
R01HL-23015-01 Mechanisms of hypo-oncotic pulmonary edema (human, dogs)

PHYSICAL PROPERTIES, FLUID STATE, OSMOTIC PRESSURE

SEE ALSO BLOOD OSMOTIC PRESSURE
SEE ALSO BODY FLUID BALANCE, OSMOTIC PRESSURE
SEE ALSO CELL FLUIDS, OSMOTIC PRESSURE
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
P01HL-19737-02 0011 Cellular and molecular aspects of respiratory physiology - Chemical and metabolic factors on peripheral chemoreceptor activity (cats)
P01HL-21016-02 0002 Sickle cell anemia and other hemoglobinopathies - Molecular events proceeding gelation of Hb S
R01HL-22549-02 Transport across alveolar capillary membrane (dogs)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)

PHYSICAL PROPERTIES, FLUID STATE, VAPORS

P50HL-15092-07 0005 Immune and fibrotic response to occupational environments - Respiratory and immunologic evaluation of toluene diisocyanate exposure (human)
P50HL-15092-07 0010 Immune and fibrotic response to occupational environments - Characterization of toluene diisocyanate in industrial environments
R01HL-19647-03 Therapeutic aerosols
R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)

PHYSICAL PROPERTIES, MECHANICAL PRESSURE

SEE ALSO PHYSICAL PROPERTIES, TENSILE STRENGTH
P01HL-04664-18 0004 Cardiovascular and lung dynamics - X-ray cross section imaging of the circulation (dogs)
P01HL-06285-18 0153 Cardiovascular-respiratory physiology and biochemistry - Myocardial mechanics and pharmacology in isolated papillary muscle (animals)
** P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
M P01HL-10342-13 The integrated function of respiration and circulation
P01HL-10342-13 0006 The integrated function of respiration and circulation - Lung inflation effects on pulmonary vasculature and interstitial space (dogs)
** P01HL-11310-12 0085 Mechanisms of cardiovascular disease - Mechanics of isolated cardiac muscle (animals)
** P01HL-11310-12 0086 Mechanisms of cardiovascular disease - Mechanics of the intact left ventricle (dogs)
** P01HL-11351-12 0003 Cellular and molecular mechanisms of myocardial function - Mechanical and electrical properties of cardiac muscle (rabbits)
P01HL-11351-12 0019 Cellular and molecular mechanisms of myocardial function - Mechano-chemical kinetics of small perturbations
R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
R01HL-13323-08 Intrarenal pressure and renal function (human, dogs)
P01HL-13737-07 0007 Assisted circulation Determination of cardiac status by use of balloon pump (dogs)
P01HL-13738-08 0005 Cardiac assist devices and artificial hearts Development of new materials for artificial heart and assist devices (sheep, dog)
R01HL-13803-07 Advanced cardiac valvular and vascular prosthesis (dogs, baboons)
P01HL-14388-07 0179 Regulation of the circulation in pathological states Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
** R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)
R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
P01HL-15195-04 0001 Program project in biological materials Design and synthesis
P01HL-15195-04 0003 Program project in biological materials Mechanical evaluation and fabrication
** R01HL-15526-05 Respiratory mechanics in children
P01HL-15835-06 0012 Study of muscles related to heart disease Contraction and energetics of visceral and vascular smooth muscles (rabbits)
R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
P01HL-16833-04 0008 Hemoglobin and red cell system in hemoglobinopathies Membrane associated phenomena in SS disease
P01HL-16878-05 0001 Control of ventilation in health and disease Ability of asthmatics to detect added resistive and elastic loads
R01HL-17335-05 Contractile properties of hypertensive arterioles (rats)
R01HL-17437-03 'Perfusion lung'--Role of traumatized leukocytes (dogs, human)
R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
M P01HL-18208-04 Center for the study of blood cell rheology
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
** P01HL-18208-04 0006 Center for the study of blood cell rheology - Analysis of flow in arterioles and capillaries (human)
P01HL-18575-03 0006 Mechanisms of vascular changes in hypertension - Evaluation of arterial compliance in hypertension (human, pigs)
R01HL-18738-02 Prevention of postoperative venous thrombi (human, cattle)
** R01HL-18749-03 Ventricular mechanics in the overloaded heart (dogs)
R01HL-18912-03 Mechanics of heart muscle contraction (cats, dogs)
R01HL-18977-03 Non-invasive diagnosis of peripheral arterial disease (human, dogs)
R01HL-19012-03 Smooth muscle of resistance vessels in hypertension (rats)
R01HL-19133-03 Contractile and elastic properties of cardiac muscle (cats)
P01HL-19242-02 0006 Study of vascular smooth muscle - The contractile system of vascular smooth muscle (swine, rats)
R01HL-19275-03 Characterization of collateral blood vessels (dogs)
** R01HL-19460-03 Mechanics of the papillary muscle and the left ventricle (cats, rabbits)
** R01HL-19677-03 Venous structure and function (dogs)
** P01HL-19717-02 0009 Response of the lung to injury - Time-dependent mechanical properties of lung connective tissues (hamsters)
P01HL-19717-02 0010 Response of the lung to injury - Proteoglycans in lung function and structure (hamsters)
P01HL-19717-02 0018 Response of the lung to injury - Lung mechanics and connective tissue composition in human emphysema
P01HL-19717-02 0023 Response of the lung to injury - Postnatal lung development--Cells, connective tissue and physiology (animals)
R01HL-20122-02 Operational mechanisms of airway receptors (dogs, pigs)
R01HL-20196-02 Regulation of coronary arterial smooth muscle
R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
** P01HL-20552-02 0003 The development and regression of cardiac hypertrophy - Muscle mechanics of the hypertrophied left ventricle (rats)
P01HL-20552-02 9002 The development and regression of cardiac hypertrophy - Core B--Biomathematics
** R01HL-20648-01 Physical factors and coronary flow (dogs)
R01HL-20749-01 Developing heart--Biophysical aspects (sheep)
** R01HL-21103-01 Parametric mechanical studies of hypertensive arteries (dogs, rats)
R23HL-21234-02 The regulation of cardiac hypertrophy (rabbits)
R01HL-21312-01 Sarcomere mechanics in disrupted ventricular muscle (guinea pigs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R23HL-21325-02 Sarcomere kinematics in cardiac contraction (ratso rabbits)
** R01HL-21425-02 Servo-simulated compliance changes--A reversible MI (dogs)
** R23HL-21462-02 Mechanical interactions between ventricle arteries (dogs)
** R23HL-21539-02 Mechanical properties of isolated small bronchioles (rabbits)
M P01HL-21584-02 Respiratory mechanics in normal and abnormal states
** P01HL-21584-02 0001 Respiratory mechanics in normal and abnormal states - Engineering analysis of lung deformation (human, animals)
** P01HL-21584-02 0002 Respiratory mechanics in normal and abnormal states - Lung mechanics--Regional deformation and ventilation (dogs)
P01HL-21584-02 0003 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on ventilation and respiratory mechanics in man
P01HL-21584-02 0006 Respiratory mechanics in normal and abnormal states - Respiratory mechanics in health and disease (human, pigs)
R01HL-21850-01 Calcium transport in the hypertrophied myocardium (rats, animals)
** R01HL-21993-01 Hypertensive hypertrophy--Effects of cardiac mechanics (rats)
R01HL-22269-01 Excitation-contraction coupling in enlarged hearts (rabbits)
R01HL-22313-01 Lung elastic recoil--Age and disease (human)
R01HL-22667-01 Mechanisms of baroreceptor adaptation in hypertension (dogs)
R23HL-22745-01 Vascular mechanics and structure in hypertension (miniature swine)
N01HV-32950-08 Blood compatible poly-electrolytes
N01HV-72919-01 Test polymers for circulatory assist devices

PHYSICAL PROPERTIES, PARTICLES

P50HL-14153-07 0016 Johns Hopkins Lung Center--Chronic diseases of airways - Airways defense mechanisms (dogs)
P50HL-14212-07 0004 Correlated studies of pulmonary fibrosis - Collagen metabolism in lung tissue and lung cells (human, animal)
P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
P50HL-14212-07 0007 Correlated studies of pulmonary fibrosis - Protein metabolism in alveolar macrophages (rabbits, guinea pigs, human)
** P50HL-14212-07 0012 Correlated studies of pulmonary fibrosis - Inorganic particulates in tobacco, smoke and lungs of cigarette smokers (human)
P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
R01HL-19431-03 Regional mucociliary transport in the human lung
R01HL-19647-03 Therapeutic aerosols
R01HL-19700-03 Deposition of hygroscopic aerosols (models)
R01HL-19715-02 Respiratory tract deposition of hygroscopic aerosols (dogs, human)
** R01HL-19722-03 Aerosol growth in the respiratory system (models)
R01HL-20105-02 Deposition of hygroscopic aerosols in bronchi (dogs, human, models)

PHYSICAL PROPERTIES, PARTICLES, DUST

SEE ALSO HYPERSENSITIVITY, ALLERGENS AIRBORNE
R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
P50HL-15092-07 0001 Immune and fibrotic response to occupational environments - X-ray diffraction study--Dust exposure in asbestos cement products manufacturing
P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
P50HL-15092-07 0006 Immune and fibrotic response to occupational environments - Immunologic studies in silicosis (human, rabbits, hamsters, guinea pigs)
P50HL-15092-07 0007 Immune and fibrotic response to occupational environments - Asbestosis--Cellular immunity, structure and mineral localization (human)
P50HL-15092-07 0008 Immune and fibrotic response to occupational environments - Animal models of asbestosis (hamsters)
P50HL-15092-07 0011 Immune and fibrotic response to occupational environments - Respiratory and immunologic responses in coffee plant workers
P50HL-15092-07 0012 Immune and fibrotic response to occupational environments - Longitudinal evaluation of workers exposed to cotton dust
P50HL-15389-07 0008 Pulmonary SCOR--Hypersensitivity pneumonitis - Milwaukee patient study--Hypersensitivity pneumonitis
P50HL-15389-07 0013 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Pulmonary mycotoxicosis (rabbit, guinea pig)
P50HL-15389-07 0014 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of pigeon antigens
P60HL-17292-04 0005 Vermont Lung Center - Mineral pneumoconioses--Pathogenesis and pathology (human)
R01HL-17543-03 0003 Magnetic tracers for diagnosis of lung disease - Occupationally accumulated magnetite for diagnosis of lung disease (human)

PHYSICAL PROPERTIES, PRECIPITATION

** R01HL-21791-01 Precipitation of proteins with poly (ethylene glycol) (human)

PHYSICAL PROPERTIES, RHEOLOGY (NOT INCL. BLOOD)

SEE ALSO BIOLOGICAL TRANSPORT, FLUID EXCHANGE AND TRANSPORT
SEE ALSO BLOOD AND RE SYSTEM, LYMPH FLOW
SEE ALSO BLOOD RHEOLOGY
SEE ALSO BODY FLUIDS, VISCOSITY-VISCOELASTICITY
SEE ALSO CELL FLUIDS, OSMOTIC PRESSURE
SEE ALSO GASTROINTESTINAL FUNCTION, DEGLUTITION
SEE ALSO NERVOUS SYSTEM, NEURONS, AXOPLASMIC FLOW
SEE ALSO NERVOUS SYSTEM CENTRAL, CEREBROSPINAL FLUID FLOW
SEE ALSO NERVOUS SYSTEM CENTRAL, CEREBROSPINAL FLUID PRESSURE
SEE ALSO ORAL-PHARYNGEAL, SALIVATION
SEE ALSO PHYSICAL PROPERTIES, CRYSTALS, LIQUID
SEE ALSO PHYSICAL PROPERTIES, FLUID DYNAMICS (GENERAL)
SEE ALSO PHYSICAL PROPERTIES, FLUID FLOW
SEE ALSO PHYSICAL PROPERTIES, FLUID FLOW IMPEDANCE
SEE ALSO PHYSICAL PROPERTIES, FLUID STATE
SEE ALSO PHYSICAL PROPERTIES, VISCOSITY-VISCOELASTICITY
SEE ALSO RESPIRATORY DISORDERS, RESPIRATORY AIRFLOW DISORDERS
SEE ALSO RESPIRATORY DISORDERS DIAGNOSIS, RESPIRATORY AIRFLOW MEASUREMENTS*
SEE ALSO RESPIRATORY FUNCTION, RESPIRATORY AIRWAY PRESSURES
SEE ALSO RESPIRATORY GAS TRANSPORT
R01HL-13885-08 0009 Cystic fibrosis and pulmonary disease - Respiratory mucus glycoproteins (human, rabbits)
** R01HL-19454-02 Rheological factors in transport across arterial wall (dogs)
** R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
R01HL-22233-01 Characterization of bio-materials by elastic property
R01HL-22444-01 Bronchial mucus production in organ culture (human)

PHYSICAL PROPERTIES, SOLID STATE

SEE ALSO PHYSICAL PROPERTIES, CRYSTALS, CRYSTALLIZATION
SEE ALSO TEMPERATURE, FREEZING
R01HL-13652-08 Metal sites in metalloproteins (mushroom)
R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)

PHYSICAL PROPERTIES, SOLUBILITY

P01HL-07896-15 0045 Environmental biomedical research program - Extravascular lung water dynamics in pulmonary oxygen toxicity (human, baboons)
R01HL-15293-07 Sickle cell hemoglobin--Interactions and aggregation (human)
R01HL-18918-03 Characterization of lung elastins (rat, rabbit, chicken, Rhesus)
R01HL-19065-02 Molecular oxygen in biological fluids
R01HL-21791-01 Precipitation of proteins with poly (ethylene glycol) (human)
R01HL-22035-01 Molecular modification of heparin by chemical means (sheep)

PHYSICAL PROPERTIES, SOLUBILITY, LIPID

R01HL-16101-05 Protein-lipid interaction (bacteria, models)

PHYSICAL PROPERTIES, SOLUBILITY, WATER

SEE ALSO PHYSICAL PROPERTIES, SOLUTIONS, AQUEOUS
R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
R01HL-23120-01 Chelating agents as blood substitutes

PHYSICAL PROPERTIES, SOLUTES

** R01HL-08977-14 Quantitation of flow and solute flux in microvessels (cats, rats)
** R01HL-11153-12 Quantitation of flow and solute flux in microvessels (cats, rats)
** R01HL-12879-09 0002 Pulmonary transport and metabolism in vivo - Osmotic compartmental model of barrier exchange
R01HL-12879-09 0007 Pulmonary transport and metabolism in vivo - Effects of temperature changes on pulmonary transport
R01HL-17998-04 Regulatory mechanisms in blood circulation (dogs)
R01HL-18004-02 Transport through arterial wall--Biophysical aspects (rabbits)
R01HL-18736-03 Protein transport through arterial tissue (rabbits)
R01HL-19139-03 Dispersion of diffusible indicators in the body (human, cats, dogs)
R01HL-21376-02 Blood-gas barrier solute and water transport (rabbits)
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)

PHYSICAL PROPERTIES, SOLUTIONS

SEE ALSO IONS, ELECTROLYTES
SEE ALSO SALINE SOLUTIONS
P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changes in lymphocytes (human, mice)
P50HL-14147-08 0015 Specialized center of research in thrombosis - Charge related properties of phospholipid surfaces in monolayers and vesicles
P01HL-16683-04 0002 Function and growth of cardiac and skeletal muscle - Myosin, actin, ATP, interaction in solution
R01HL-22570-01 Interactions of sterols in biological systems (human)

PHYSICAL PROPERTIES, SOLUTIONS, AQUEOUS

SEE ALSO PHYSICAL PROPERTIES, SOLUBILITY, WATER
R01HL-15155-05 Rheology of pulmonary secretions (dogs)
R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
R01HL-18623-12 Physical chemistry of biologically active lipids (bacteria, plant, cattle, human)
R01HL-21791-01 Precipitation of proteins with poly (ethylene glycol) (human)

PHYSICAL PROPERTIES, SOLUTIONS ASSOCIATION

SEE ALSO CHEMICAL AGGREGATES, MICELLE FORMATION
** P01HL-16833-04 0002 Hemoglobin and red cell system in hemoglobinopathies - Polymerization and gel formation in solutions of hemoglobin A and S (human)
R01HL-18636-02 Fatty acids and cholesterol transport (rats)

PHYSICAL PROPERTIES, SOLVENTS

P50HL-15092-07 0005 Immune and fibrotic response to occupational environments - Respiratory and immunologic evaluation of toluene diisocyanate exposure (human)
P50HL-15092-07 0010 Immune and fibrotic response to occupational environments - Characterization of toluene diisocyanate in industrial environments
P01HL-15195-04 0001 Program project in biological materials - Design and synthesis
P01HL-15195-04 0003 Program project in biological materials - Mechanical evaluation and fabrication
R01HL-23392-01 Membrane binding and transport of calcium and potassium ionophores

PHYSICAL PROPERTIES, SOUND

SEE ALSO HEART FUNCTION, HEART SOUNDS
** P01HL-19717-02 0020 Response of the lung to injury - Recording of lung sounds in animal models of disease (animals)
** R23HL-21199-02 Sound transmission in lung (dog)

PHYSICAL PROPERTIES, SOUND, NOISE POLLUTION

** N01HV-72925-04 Non-invasive detection of atherosclerotic lesions (human, monkeys, dogs)

PHYSICAL PROPERTIES, SOUND, ULTRASONIC SCANNING*

** P50HL-14218-07 0014 Pulmonary SCOR--Newborn lung center - Longitudinal study of ROS--Monitoring fetal breathing movements (human)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
** R01HL-16830-05 Non-invasive determination of aortic blood velocities (human)
** R01HL-17769-03 New methods of studying blood coagulation kinetics
** R01HL-19341-03 Ultrasonic detection of the atherosclerotic plaque
R01HL-19537-03 Detection of myocardial injury with ultrasound (dogs)
** P01HL-19717-02 0045 Response of the lung to injury - Ultrasound studies (human, hamsters)
R23HL-21253-01 Anatomical models in computer-aided image analysis
R01HL-22506-01 Hemodynamics of the clinical hypertensions
** N01HV-72924-04 Non-invasive detection of atherosclerotic lesions (human, animals)
** N01HV-72926-04 Ultrasonic imaging development
** N01HV-72927-00 Systems for non-invasive detection of atherosclerotic lesions (human)
** N01HV-72928-04 Develop high resolution ultrasonic imaging techniques
** N01HV-72929-01 Improved detection of atherosclerosis (human, dogs)
** N01HV-72932-00 Non-invasive detection of atherosclerotic lesions (human, phantoms)

PHYSICAL PROPERTIES, SOUND, ULTRASONICS

R01HL-20024-03 Therapeutic aerosols--Characteristics and retention (human, dogs)
** R01HL-20869-01 Microvascular responses to ultrasound
** R01HL-20979-02 A novel pulsed Doppler flowmeter (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

PHYSICAL PROPERTIES, SOUND, ULTRASONOGRAPHY

SEE ALSO BRAIN VISUALIZATION, ULTRASONIC ECHOENCEPHALOGRAPHY*
SEE ALSO CARDIOVASCULAR DISORDERS DIAGNOSIS, BLOOD FLOW MEASUREMENTS, ULTRASONIC*
SEE ALSO HEART VISUALIZATION, ANGIOCARDIOULTRASONOGRAPHY*
SEE ALSO HEART VISUALIZATION, ECHOCARDIOGRAPHY*
SEE ALSO OPTICS, MICROSCOPY, ULTRASONIC*
SEE ALSO OPTICS, PHOTOGRAPHY, HOLOGRAPHY, ACOUSTIC*
SEE ALSO PHYSICAL PROPERTIES, SOUND, ULTRASONIC SCANNING*

** P01HL-04664-18 0007 Cardiovascular and lung dynamics - Development and application of ultrasound imaging techniques
** R01HL-14785-07 Ultrasonic scattering for tissue characterization (dogs, cattle, human)
R01HL-16759-05 Ultrasonic measurement of cardiac geometry and flow
R01HL-20869-01 Microvascular responses to ultrasound
R01HL-22854-01 Non-invasive blood pressure measurement (rats)

PHYSICAL PROPERTIES, SOUND, ULTRASOUND ADVERSE EFFECTS

** R01HL-19537-03 Detection of myocardial injury with ultrasound (dogs)
R01HL-20869-01 Microvascular responses to ultrasound

PHYSICAL PROPERTIES, SOUND FREQUENCY

P01HL-19717-02 0044 Response of the lung to injury - Lung sound analysis (human)
R23HL-21199-02 Sound transmission in lung (dog)

PHYSICAL PROPERTIES, SURFACE PROPERTIES (GENERAL)

SEE ALSO MEMBRANE SURFACE (BIOLOGICAL) ACTIVITY (GENERAL)

P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
P01HL-06285-18 0213 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gas vacuole membrane (Halobacterium)
** P01HL-06312-17 0043 Surgical cardiology - The cylindrical ventricular assist device (dogs)
P01HL-06664-17 0042 Cardiopulmonary function in remediable vascular disease - Physiologic studies on vein grafts (dogs)
R01HL-12839-09 Flow, transport and membrane phenomena in blood (human)
** P01HL-13738-08 0005 Cardiac assist devices and artificial hearts - Development of new materials for artificial heart and assist devices (sheep, dog)
P50HL-14147-08 0003 Specialized center of research in thrombosis - Surface thrombogenicity and phospholipid vesicle physical properties
P50HL-14147-08 0013 Specialized center of research in thrombosis - Mathematical models of blood coagulation kinetics
P50HL-14147-08 0014 Specialized center of research in thrombosis - Theoretical models for electrostatic effects in blood clot formation
** P50HL-14147-08 0015 Specialized center of research in thrombosis - Charge related properties of phospholipid surfaces in monolayers and vesicles
** P50HL-15062-07 0007 Study of lipoproteins, artery wall, and atherosclerosis - Physical chemistry of lipid-protein interaction (human)
P50HL-15062-07 0008 Study of lipoproteins, artery wall, and atherosclerosis - Lipid modifying enzymes (human, monkey)
M P01HL-15195-04 Program project in biological materials
** P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
P01HL-15195-04 0004 Program project in biological materials - Biological evaluation and surface interaction studies (dogs)
R01HL-15335-06 The nature of the collagen-platelet interaction (animals)
R01HL-16855-03 Cavitation in biological systems (microorganisms, animals)
R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
R01HL-17402-04 Mechanism of contact activation of intrinsic clotting (human)
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
P01HL-17731-04 0002 Physiological basis of pulmonary disease - Biomechanics of the lung (frogs, cats)
P01HL-18577-03 0005 Lipoproteins--Cell surface interactions - Chemical synthesis of apolipoproteins and apoliprotein fragments
R01HL-18935-03 Platelets, fibrinogen, soluble fibrin interaction (human)
** R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
R01HL-20037-02 Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle)
R01HL-20073-02 Blood compatible materials by fluid perfusion (human, dogs)
** R01HL-20079-02 0003 Thromboresistant material - Blood surface interactions (human, cattle)
R01HL-20313-02 Surface induced thrombosis - Modification of albumin variants (human, goat)
R23HL-21805-01 Tissue cell interactions with vascular prostheses (human, rats, mice)
R01HL-21975-01 Studies on normal and abnormal factor IX (human, dogs, cows)
P01HL-22633-01 0004 Cellular and molecular biology of lipoprotein metabolism - Lipid-lipid and lipid-protein interactions in serum lipoproteins (human, rats)
** R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces
N01HV-12017-15 Fabrication of grafted hydrogel coatings for plastic heart assist devices
** N01HV-32913-11 Study electrodeless glow discharge for modifying polymer surface
** N01HV-32917-08 Materials development and testing
N01HV-42928-07 Continued development of carbon film deposits for prosthetics
N01HV-52907-04 Interactions of platelets with collagens (human, mammals)

PHYSICAL PROPERTIES, SURFACTANTS

SEE ALSO RESPIRATORY SYSTEM, PULMONARY SURFACTANT
SEE ALSO TERPENES SAPONINS

R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
R01HL-18002-03 Circulatory shock, trauma and RE-system function (rats)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs

PHYSICAL PROPERTIES, SURFACTANTS, DETERGENTS

P01HL-06285-18 0215 Cardiovascular-respiratory physiology and biochemistry - Conformation of biopolymers
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)

PHYSICAL PROPERTIES, SUSPENSIONS

SEE ALSO PHYSICAL PROPERTIES, EMULSIONS

R01HL-16855-03 Cavitation in biological systems (microorganisms, animals)

PHYSICAL PROPERTIES, TENSILE STRENGTH

SEE ALSO ENVIRONMENT, STRESS MECHANICAL

R01HL-01015-27 Hypertension and left ventricular hypertrophy (dogs)
P01HL-15195-04 0003 Program project in biological materials - Mechanical evaluation and fabrication
R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
** R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
R01HL-17969-04 Function and structure of semilunar valves (dogs)
R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
R01HL-22040-01 Regulation of lysyl-cross-linking in vascular tissue (rats, turkeys)
** R01HL-22233-01 Characterization of bio-materials by elastic property
N01HV-72918-01 Test polymers for circulatory assist devices
N01HV-72919-01 Test polymers for circulatory assist divices

PHYSICAL PROPERTIES, VISCOSITY-VISCOELASTICITY

SEE ALSO BLOOD VISCOSITY-VISCOELASTICITY
SEE ALSO BODY FLUIDS, VISCOSITY-VISCOELASTICITY
SEE ALSO MOLECULAR FRICTIONAL PROPERTIES

P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
P01HL-06664-17 0042 Cardiopulmonary function in remediable vascular disease - Physiologic studies on vein grafts (dogs)
** P01HL-08682-15 0005 Regulation of the cardiovascular system - Smooth muscle and mechanical properties of blood vessels (dogs, human)
P01HL-11310-12 0085 Mechanisms of cardiovascular disease - Mechanics of isolated cardiac muscle (animals)
P01HL-11351-12 0003 Cellular and molecular mechanisms of myocardial function - Mechanical and electrical properties of cardiac muscle (rabbits)
R01HL-12494-10 Continuum mechanics in biophysics (human, animals)
R01HL-12607-10 Dynamics of pulsatile blood flow (human, dogs, rats)
R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
** R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
P50HL-15062-07 0007 Study of lipoproteins, artery wall, and atherosclerosis - Physical chemistry of lipid-protein interaction (human)
R01HL-16582-05 Artificial lungs (dogs)
R01HL-16606-11 Contraction in heart and other striated muscles (frogs)
R01HL-16657-06 Innervation of coronary arteries and heart (rats)
P60HL-17269-04 0014 National heart and blood vessel research and demonstration center - Physio chemical nature of lipid deposits in arterial wall (human)
R01HL-17576-04 Role of sphingomyelin in biomembranes and bilayers (rats, other mammals)
** P50HL-17669-04 0007 Ischemic heart disease center (SCOR) - Relationship between myocardial depression and compliance (dogs, cats)
P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
R01HL-18441-03 Guidelines for polymers acting as elastin substitutes
** R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
P50HL-19190-02 0005 Pulmonary SCOR - Pathophysiology, management of IRDS - Glycoproteins in mucous secretions (human, cattle)
R01HL-19454-02 Rheological factors in transport across arterial wall (dogs)
P01HL-19717-02 0009 Response of the lung to injury - Time-dependent mechanical properties of lung connective tissues (hamsters)
P01HL-19737-02 0010 Cellular and molecular aspects of respiratory physiology - Effects of pulsatile flow and volume on capillary exchanges (dogs, rats)
R01HL-21071-02 Mechanisms of hypertension in coarctation of the aorta (dog)
R01HL-21103-01 Parametric mechanical studies of hypertensive arteries (dogs, rats)
R01HL-21993-01 Hypertensive hypertrophy--Effects of cardiac mechanics (rats)
R23HL-22245-02 Functional characteristics of atrial receptors (rats)
R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)

PHYSICAL SEPARATION, CENTRIFUGATION*

SEE ALSO PHYSICAL SEPARATION, ULTRACENTRIFUGATION*

R01HL-20788-02 Preservation of human platelets for transfusion

PHYSICAL SEPARATION, CHROMATOGRAPHY*

R01HL-07379-13 Structure and function of fibrinogen (human)
R01HL-18284-04 Aging erythrocytes--Bio-recognition and elimination (monkeys)
** R01HL-22355-01 Purification, structure and function of factor VIII (human)
P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
R01HL-23981-01 Acute alveolar injury (dogs)

PHYSICAL SEPARATION, CHROMATOGRAPHY, AFFINITY

** P01HL-15596-05 0003 Coagulation, fibrinolysis, hemostasis and hepatitis - Plasmin degraded fibrinogen fractions (human)
** P01HL-15596-05 0020 Coagulation, fibrinolysis, hemostasis and hepatitis - Affinity chromatography
R01HL-18095-04 Human dopamine-beta-hydroxylase (also cattle)
R01HL-21692-02 Purification of erythropoietin (human)
R01HL-22242-01 The converting enzyme of lung (cattle, human)

PHYSICAL SEPARATION, CHROMATOGRAPHY, AMINO ACID ANALYZER*

** R01HL-11119-17 Amino acid analyzer for biochemical research

PHYSICAL SEPARATION, CHROMATOGRAPHY, DEAE CELLULOSE*

R01HL-14778-10 Proteolytic enzymes and inhibitors in lung disease (mammals, human)
R01HL-17710-04 Selective replication of hemoglobin genes (mice, ducks, human)

PHYSICAL SEPARATION, CHROMATOGRAPHY, GAS*

R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
** P60HL-17269-04 0016 National heart and blood vessel research and demonstration center - New analytical methodology for atherosclerosis studies

PHYSICAL SEPARATION, CHROMATOGRAPHY, GEL FILTRATION (PERMEATION)*

R01HL-18618-04 Purification and function of human HMW kininogen

PHYSICAL SEPARATION, CHROMATOGRAPHY, HIGH PRESSURE LIQUID*

** P01HL-08214-15 0047 Chemical and biological properties of lipids - High resolution liquid chromatography for the analysis of biological substances
** P60HL-17269-04 0016 National heart and blood vessel research and demonstration center - New analytical methodology for atherosclerosis studies

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

PHYSICAL SEPARATION, CHROMATOGRAPHY, ION EXCHANGE*

R01HL-14680-07 Specific enrichment of myoglobins for carbon 13 NMR (catacea)
R01HL-19331-03 Hirudin isolation and utilization (leeches)
** R01HL-20751-01 High speed liquid chromatography of hemoglobins (human)

PHYSICAL SEPARATION, CHROMATOGRAPHY, THIN LAYER*

R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)

PHYSICAL SEPARATION, ELECTROFOCUSING*

R01HL-02262-23 Mechanisms regulating plasma proteins and solutes (human, dogs)
R01HL-15817-06 Plasminogen activators from tissues (human, pig, cattle)
R01HL-22355-01 Purification, structure and function of factor VIII (human)

PHYSICAL SEPARATION, ELECTROPHORESIS*

SEE ALSO IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOELECTROPHORESIS*
SEE ALSO PHYSICAL SEPARATION, ELECTROFOCUSING*
R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
R01HL-22325-01 Thermodynamics in respiratory protein binding (human, trout)

PHYSICAL SEPARATION, ELECTROPHORESIS, GEL*

P01HL-16137-05 0008 Alveolar biology - Macromolecular events in pulmonary cells in toxic environments (animals)
R01HL-17710-04 Selective replication of hemoglobin genes (mice, ducks, human)
** P01HL-18574-03 0001 Lipoprotein methodology and biomedical applications - Ultracentrifugal and electrophoretic lipoprotein methodology--Applications
** P01HL-18574-03 0005 Lipoprotein methodology and biomedical applications - Structure and function of lipoproteins
R01HL-22242-01 The converting enzyme of lung (cattle, human)
** R01HL-22355-01 Purification, structure and function of factor VIII (human)
P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells

PHYSICAL SEPARATION, FRACTIONATION (GENERAL)*

SEE ALSOBLOOO ANO RE SYSTEM, BLOOO FRACTIONATION
** P01HL-16833-04 0004 Hemoglobin and red cell system in hemoglobinopathies - Purification and fractionation of hemoglobin A and S (human)

PHYSICAL SEPARATION, FRACTIONATION, SOLVENT*

R01HL-22035-01 Molecular modification of heparin by chemical means (sheep)

PHYSICAL SEPARATION, MOLECULAR SIEVES*

R01HL-18010-04 Capillary transport of large molecules (dogs, sheep)

PHYSICAL SEPARATION, ULTRACENTRIFUGATION*

R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system

PHYSICAL SEPARATION, ULTRACENTRIFUGATION, ANALYTICAL*

SEE ALSO PHYSICAL SEPARATION, ULTRACENTRIFUGATION, OENSITY GRAOIENT*
** P01HL-18574-03 0001 Lipoprotein methodology and biomedical applications - Ultracentrifugal and electrophoretic lipoprotein methodology--Applications

PHYSICAL SEPARATION, ULTRACENTRIFUGATION, DENSITY GRADIENT*

P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells

PHYSICAL THERAPY

SEE HEALTH CARE SERVICES, PHYSICAL THERAPY

PHYSICIANS

SEE HEALTH SCIENCES PROFESSIONS, PHYSICIANS

PHYSIOLOGICAL CHEMISTRY STUDY SECTION

** R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
** R01HL-02751-21 Function and metabolism of serum albumin (mammals, fish, amphibians)
** R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
** R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)
** R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
** R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)
** R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
** R01HL-13630-08 Control of glycogen synthesis in heart (cattle)
** R01HL-14778-10 Proteolytic enzymes and inhibitors in lung disease (mammals, human)
** R01HL-14865-07 Biochemical studies on the pathogenesis of emphysema (human, rats)
** R01HL-15376-06 Intermediary metabolism of sterols (mice)
** R01HL-15979-05 Elastase, serum inhibitors and the vasculature (human, swine)
** R01HL-16445-05 Regulation of plasma protein biosynthesis (rats, rabbits)
** R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
** R01HL-16628-05 Regulation of lipid metabolism (rats)
** R01HL-16634-13 Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep)
** R01HL-16920-02 Proteases in normal and immunologically injured lung (guinea pigs, rabbits)
** R01HL-17194-03 Comparison of two inherited forms of alpha-1-antitrypsin (human)
** R01HL-17462-03 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)
** R01HL-17552-03 Sickling inhibition by chemical modification of hemoglobin (human)
** R01HL-17783-04 Complex carbohydrates--Structure, function, synthesis (swine)
** R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
** R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
** R01HL-17976-18 Chemical agents and heart glycolytic enzymes (sheep)
** R01HL-18089-04 Fatty acid metabolism in heart and its regulation (swine, rats)
** R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
** R01HL-18625-03 Organization of arterial ground substance (cattle)
** R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)
** R01HL-20794-02 Prostaglandin synthesis in human platelets (also in sheep, rabbit)
** R01HL-21246-02 Roles of cholesterol and its metabolic regulation (CHO cell mutants)
** R23HL-21247-02 Purification of renal renin (human)
** R23HL-21251-01 Metabolism of neutral lipids in the pulmonary alveolus (rabbits)
** R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
** R01HL-21471-02 Structure-function studies on actin and myosin (human, protozoa, rabbits, cattle)
** R01HL-21540-02 Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs)
** R01HL-21628-02 Biosynthesis of lung surfactant lipid (rabbit)
** R01HL-21831-05 Oetermining sequences from hemoglobin messenger RNA (mice, chickens, rabbits)
** R23HL-21894-01 Pulmonary angiotensin converting enzyme (cattle)
** R01HL-21912-01 Biosynthesis of lipoic acid and atherosclerosis (birds, chick embryos)
** R23HL-22075-01 Metabolism of arachidonic acid in blood vessels (chickens, mammals)
** R01HL-22288-01 Renin and precursors--Structure and function (mice)
** R01HL-22983-01 Studies on the catabolism of plasma lipoproteins (rats)

PHYSIOLOGY (GENERAL)*

SEE ALSO ELECTROPHYSIOLOGY
SEE ALSO NEUROPHYSIOLOGY (GENERAL)
SEE ALSO PSYCHOBIOLOGY, PSYCHOPHYSIOLOGY
** P01HL-06664-17 0042 Cardiopulmonary function in remediable vascular disease - Physiologic studies on vein grafts (dogs)
P01HL-14388-07 0151 Regulation of the circulation in pathological states - Catecholamine release in potassium ion-free contractures in the caudal artery
P01HL-14388-07 0152 Regulation of the circulation in pathological states - Ion flux alterations in caudal artery in SHR
P01HL-14388-07 0153 Regulation of the circulation in pathological states - Subcellular distribution of calcium (rats)
P01HL-14388-07 0154 Regulation of the circulation in pathological states - Energetics of smooth muscle contraction (rats)
P01HL-14388-07 0155 Regulation of the circulation in pathological states - Cardiopulmonary afferent activity, carotid chemo-baroreceptor reflexes
P01HL-14388-07 0156 Regulation of the circulation in pathological states - Blood pressure with drinking to intracranial angiotensin II injections (rats)
P01HL-14388-07 0157 Regulation of the circulation in pathological states - Autoregulation of renal blood flow and distribution in sodium excretion control
P01HL-14388-07 0159 Regulation of the circulation in pathological states - Early drug and diet interventions and blood pressure development (rats)
P01HL-14388-07 0195 Regulation of the circulation in pathological states - General review of potential pathophysiologic factors in spontaneous hypertension
R01HL-17702-04 Electro-optical dyes as probes of heart excitability
R01HL-18260-04 Cyclic nucleotide metabolism in lung tissue (cattle)
R01HL-19677-03 Venous structure and function (dogs)
R13HL-22068-01 Conference on 'The Internal Environment' (California)
R13HL-22525-01 International symposium on the diaphragm (Virginia)

PHYSIOLOGY STUDY SECTION

** R01HL-00082-30 Transmembrane movements (barnacles, frogs, rats)
** R01HL-01974-24 Ion-pump in the erythrocyte (rabbits, guinea pigs)
** R01HL-02228-24 Respiration, circulation, and heat regulation in exercise (bird, mammals)
** R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
** R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
** R01HL-07723-15 Reflex control of vascular capacitance in shock
M R01HL-09906-13 Membrane transport processes in red blood cells
** R01HL-10182-13 Circulatory function and electrolytic metabolism (dogs, human)
** R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
** R01HL-11153-12 Quantitation of flow and solute flux in microvessels (cats, rats)
** R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
** R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
** R01HL-13237-09 Erythrocytes during early development (human, animals)
** R01HL-13256-08 Amino acid transport by red cell membranes (pigeons)
** R01HL-13349-06 Analysis of activation process in heart muscle (guinea pigs, rabbits, human)
** R01HL-13567-06 Ion transport across cell membranes (human)
** R01HL-13929-06 Single nephron response to chronic obstruction (frogs, rats)
** R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)
** R01HL-14820-07 Factors affecting physiology of biological membranes (human)
** R01HL-15390-12 Regulation of blood flow in the microcirculation
** R01HL-15692-07 Force and speed in skeletal and cardiac muscle
** R01HL-15852-06 Vascular ion transport and hypertensive mechanisms
** R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
** R01HL-16430-05 Neural control of respiration (cats)
** R01HL-16606-11 Contraction in heart and other striated muscles (frogs)
** R01HL-16666-05 Micropinocytosis in isolated capillary endothelium
** R01HL-17702-04 Electro-optical dyes as probes of heart excitability
** R01HL-17715-04 Respiratory muscle afferents in respiratory control (cats)
** R01HL-17847-04 Cardiovascular and renal functions of marmots
** R01HL-17967-04 Limiting factors in oxygen uptake in the lung
** R01HL-17998-04 Regulatory mechanisms in blood circulation (dogs)
** R01HL-18007-05 Neural mechanisms controling motor act of breathing (cats, human)
** R01HL-18053-03 Intracellular ionic activities in heart muscle (frogs)
** R01HL-18077-04 Smooth muscle cell organization and Ca20 concentration control (chickens)
** R01HL-18292-04 Vasodilation and microvascular oxygen delivery (dog, hamster)
** R01HL-18351-03 Brain metabolism, acid-base balance, and respiration
** R01HL-18489-03 Hemodynamic interactions of vasoactive chemicals (rats)
** R01HL-18676-03 Myocardial sarcomere mechanics (rat)
** R01HL-18868-03 Oevelopment of vertebrate vascular control systems (reptiles, amphibians)
** R01HL-18900-03 Intercellular factors in function of cardiac cells
** R01HL-18943-03 Contractile activity of single cardiac cells
** R01HL-19008-02 Carbon dioxide diffusion in lung and muscle tissues (dogs)
** R01HL-19082-01 Hypoxia-induced relaxation of vascular smooth muscle
** R01HL-19138-03 Contractile activation of skinned cardiac cells (mammals)
** R01HL-19320-03 Angiotensin neuropharmacology--Relationship to sodium
** R01HL-19455-03 Role of endothelial cells in vascular permeability (tissue culture)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-19639-02 Parmeability transients of carriars, channels and haart
** R01HL-19995-02 Sansory transduction in cardiac machanoracaptors (cats, trogs, rats)
** R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
** R01HL-20230-02 Analysis of the action potential of cardiac muscle (sheep)
** R01HL-20254-02 Probes ot heart and nerve membranes--Fluorescent dyes
** R01HL-20365-03 Molecular mechanisms of anion transport
** R01HL-20558-02 Cardiac electrophysiology--Ettects of ions and drugs
** R01HL-20605-02 Microvascular responses during intestinal absorption (rats)
** R01HL-20613-02 Mechanical properties ot isolated myocardium
** R01HL-20708-02 Voltage clamp ot embryonic heart cell aggregates (rat and chick embryos)
** R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
** R01HL-20725-02 Mechanisms and cellular functions of ion transport
** R01HL-21136-02 Ion activities and transport in cardiac muscle cells (sheep)
** R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
** R01HL-21172-02 Regional oxygen consumption of heart and other organs (animals)
** R01HL-21179-01 Volume regulation--Role of the membrane potential (amphiuma)
** R23HL-21213-01 A model tor calcium homeostasis in excitable tissue (marine worms)
** R01HL-21257-02 Breathing in sleep--Airway control and blood gases (cats)
** R01HL-21294-02 Voltage clamp of isolated cardiac Purkinje cells (dogs)
** R01HL-21312-01 Sarcomere mechanics in disrupted ventricular muscle (guinea pigs)
** R23HL-21434-02 Intrinsic control of coronary blood flow by chemicals (guinea pigs)
** R01HL-21922-01 Transient currents induced by strophanthidin in the heart
** R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
** R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
** R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase
** R01HL-22264-01 Regulation of contraction in vascular smooth muscle (dogs)
** R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
** R01HL-22561-01 Hormonal control of mesenteric circulation (cats)
** R01HL-22562-02 Mechanism of cardiac action potential propagation (tunicates)
** R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
** R01HL-22767-01 Model system for cardiac action potentials (squid, axons)
** R01HL-22845-01 Response of cardiac myosin to hypertrophic stress (rabbits)
** R01HL-23128-01 Cardiac contractility--Ischemia and hypoxia (rabbits, rats)
** R01HL-23183-01 Voltage dependent conductance in membranes
** R01HL-23601-01 Early hypoxia and development of respiratory control

PHYSIOLOGY (APPLIED) AND ORTHOPEDICS STUDY SECTION

M R01HL-05883-18 Reflex control of resistance and capacitance vessels
** R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
** R01HL-12564-09 Control of respiration and blood gases (human, dog)
** R01HL-13233-08 Cardiorespiratory control in exercise (human)
** R01HL-13841-16 Respiration during altitude acclimatization (goats, dogs, rats, rabbits)
** R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
** R01HL-14495-05 Solid and structural mechanics of lungs (mammals)
** R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
** R01HL-15469-06 Human ventilatory adaptation (also, dogs, rats)
** R01HL-16022-05 Oeterminants of the ventilatory response to hypoxia (goats, cats)
** R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
** R01HL-16390-05 Cardiopulmonary control coupling in exercise (dogs)
** R01HL-16420-02 Effect of training-detraining on the rat heart
** R01HL-16784-03 Lung tissue and water volume (human, dogs)
** R01HL-16855-03 Cavitation in biological systems (microorganisms, animals)
** R01HL-17352-03 Physiological ragulation during chronic hyperthermia (sheep)
** R01HL-17407-05 Peripheral circulation and fluid balance (fish, mammals, human)
** R01HL-17503-03 Vascular bubbles in decompression sickness (minipig, dog, goat)
** R01HL-17578-04 Exercise performance in children with heart disease
** R01HL-17604-03 Wearable blood pressure and ECG recording system
** R01HL-17732-03 Peripheral venomotor control in thermal stress (human)
** R01HL-17970-04 Vascular effects ot inhibitory behavioral adaptations (dogs)
** R01HL-18454-03 Maximal exercise testing in hyperlipidemic children
** R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
** R01HL-18560-03 Cardiovascular adaptation to stress (miniature swine)
** R01HL-18947-02 Indirect mean arterial pressure (mammals)
** R01HL-18984-01 P50 ettect on exercise limit in stable angina (human)
** R01HL-19118-03 Measurement of airways mechanics (human, dog)
** R01HL-19204-03 Environmental factors in hypertension (Rhesus monkeys)
** R01HL-19248-03 Breathing pattern variation and mechanical influences
** R01HL-19410-03 Oynamic interrelations underlying exercise hyperpnea (human)
** R01HL-19829-02 Power output of breathing (human)
** R01HL-20187-01 Evaluation of exercise cardiac rehabilitation program (40-55 year old men)
** R01HL-20253-02 Effects of exercise on the heart and its blood supply (dogs)
** R01HL-20347-02 Bolus-response measurement of lung function (human)
** R01HL-20351-02 A self-calibrating in vivo blood gas monitor (dogs, infants)
** R01HL-20373-02 Cardiovascular aging in young men and women
** R01HL-20634-01 Blood volume and venous return in thermal strain (human)
** R01HL-20663-02 Regulation of skin blood flow in man
** R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
** R01HL-20766-02 Control of circulation in heat stress (baboons)
** R01HL-20773-02 Surfactant, pulmonary edema, and lung mechanics (rabbits)
** R01HL-21117-01 Altitude adaptation in chronic lung disease (human)
** R01HL-21159-02 Pathophysiological effects of hypoxia (rats)
** R23HL-21199-02 Sound transmission in lung (dog)
** R01HL-21245-02 Influence of chronic exercise on hypertension (rats, primates)
** R01HL-21307-01 Risk reduction and exercise fitness in a population
** R01HL-21451-01 Control of circulation during heat stress and fever (baboon)
** R01HL-21578-01 Effect of exercise upon the hypertensive adolescent
** R23HL-21954-01 Exercise conditioning in patients with cystic fibrosis
** R23HL-21990-01 Accuracy of the ventilatory response to exercise (dogs)
** R01HL-22154-01 Cardiac adaptation to physical training (dog)
** R01HL-22215-01 Effects of exercise-training in ischemic heart disease (human)
** R01HL-22361-01 Regulation of cardiac adaptation to exercise (rats)
** R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)
** R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)

PHYSOSTIGMINE
SEE BENZOPYRROLES, PHYSOSTIGMINE

PHYTOAGGLUTININS
SEE PLANTS PROTEINS, LECTINS

PHYTOLACCA SP.
SEE PLANTS, ANGIOSPERMS, POKEWEEO*

PHYTOLACCACEAE
SEE PLANTS, ANGIOSPERMS, POKEWEEO*

PHYTOMITOGENS
SEE PLANTS PROTEINS, LECTINS

PIA MATER
SEE NERVOUS SYSTEM CENTRAL, MENINGES, PIA MATER

PICROTOXIN
SEE TOXICOLOGY, PLANT POISONS, PICROTOXIN

PICTORIAL DATA PROCESSING (COMPUTER)
SEE OPTICS, IMAGE PROCESSING ANALYSIS AND OISPLAY*

PIGEON BERRY
SEE PLANTS, ANGIOSPERMS, POKEWEED*

PIGEONS
SEE BIROS, PIGEONS*

PIGMENTATION, CHROMATOPHORES
P01HL-06285-18 0211 Cardiovascular respiratory physiology and biochemistry Purple membrane of Halobacteria

PIGMENTS, BACTERIAL, BACTERIORHODOPSIN-RETINAL
P01HL-06285-18 0211 Cardiovascular-respiratory physiology and biochemistry - Purple membrane of Halobacteria

PIKAS
SEE MAMMALS, LAGOMORPHS*

PILLS
SEE DOSAGE FORMS

PINOCYTOSIS
SEE BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, PINOCYTOSIS

PIPE SMOKING
SEE PSYCHOLOGY, HABITS, SMOKING

PIPERIDINES, FENTANYL
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)

PIPERIDINES, HALOPERIDOL
R23HL-22309-01 Cardiovascular pharmacodynamics in immature dogs

PITCH
SEE PHYSICAL PROPERTIES, SOUND FREOUENCY

PITRESSIN
SEE PITUITARY-DIENCEPHALON HORMONES, VASOPRESSIN

PITUITARY-ADRENAL AXIS
R01HL-19644-03 Etiological factors in hypertension (human, dogs, rats)
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)

PITUITARY CACHEXIA
SEE PITUITARY GLAND DISORDERS, HYPOPITUITARISM

PITUITARY-DIENCEPHALON (HORMONES)
** P01HL-11678-11 0047 Cardiovascular dynamics and their control - Unidentified pituitary factor in regulation of aldosterone secretion (rats)
** R01HL-20685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)

PITUITARY-DIENCEPHALON HORMONES, ACTH
R01HL-02262-23 Mechanisms regulating plasma proteins and solutes (human, dogs)
P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)
P01HL-06835-17 0050 Cardiovascular disease - 18-Hydroxylase block in the 17 alpha-hydroxylase deficiency syndrome (human)
R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
P01HL-11678-11 0046 Cardiovascular dynamics and their control - Regulation of aldosterone secretion and related factors (dogs)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
P50HL-14214-07 0015 Newborn lung center for hyaline membrane disease - Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal)
** P50HL-14214-07 0024 Newborn lung center for hyaline membrane disease - Synthesis and receptors for ACTH in fetal lung (human)
P50HL-14218-07 0006 Pulmonary SCOR--Newborn lung center - Biochemical characteristics of the lung in RDS (human, sheep)
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
R01HL-17847-04 Cardiovascular and renal functions of marmots
P50HL-18323-04 0037 SCOR hypertension center - Adrenocortical factors in childhood hypertension
R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
R01HL-18862-02 Thirst and its contribution to edema (dogs)
R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LOL pathway in cell lines with informative properties other than fibroblasts

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-21308-01 Prostaglandins and local control of the circulation (rats, dogs)
R23HL-21917-01 Adrenal steroids in adolescent and adult hypertension

PITUITARY-DIENCEPHALON HORMONES, ACTH INHIBITORS
SEE ALSO PYRIDINES, METYRAPONE
P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension

PITUITARY-DIENCEPHALON HORMONES, LH RELEASING FACTOR
** R01HL-13909-27 Physiochemistry and immunology of macromolecules

PITUITARY-DIENCEPHALON HORMONES, NEUROHYPOPHYSEAL HORMONES
SEE ALSO LIPID MOBILIZING FACTORS PITUITARY
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, OXYTOCIN
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, VASOPRESSIN
** P01HL-12738-10 0114 Physiologic pharmacology and its clinical applications - Receptor specificites and metabolism of neurohypophysial hormones (rats)
** P01HL-12738-10 0129 Physiologic pharmacology and its clinical applications - Receptor specificities and metabolism of vasopressin analogs
R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)

PITUITARY-DIENCEPHALON HORMONES, OXYTOCIN
P01HL-12738-10 0129 Physiologic pharmacology and its clinical applications - Receptor specificities and metabolism of vasopressin analogs
R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
R01HL-20685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)

PITUITARY-DIENCEPHALON HORMONES, PITUITARY HORMONES
SEE ALSO LIPID MOBILIZING FACTORS PITUITARY
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, ACTH
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, NEUROHYPOPHYSEAL HORMONES
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, PROLACTIN
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, SOMATOTROPIN
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, THYROTROPIN
** R01HL-19322-03 Role of pituitary hormones in the action of vitamin K (rats)

PITUITARY-DIENCEPHALON HORMONES, PROLACTIN
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, SOMATOTROPIN
SEE ALSO REPRODUCTIVE HORMONES, CHORIONIC SOMATOMAMMOTROPIN
R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
R01HL-21418-02 Experimental myocardial infarction (rats)

PITUITARY-DIENCEPHALON HORMONES, SOMATOTROPIN
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, PROLACTIN
SEE ALSO PITUITARY GLAND DISORDERS, ACROMEGALY
SEE ALSO SKELETAL DISORDERS, BONE DEVELOPMENT, DWARFISM, PITUITARY
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
** R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)
** P01HL-19717-02 0027 Response of the lung to injury - Hormone control of lung growth and development (rats)
R01HL-20364-01 Episodic hypertension associated with human behavior (air traffic controllers)
** R01HL-20517-03 Diabetes, somatotropin, factor VIII and atherosclerosis (human, animal)

PITUITARY-DIENCEPHALON HORMONES, THYROTROPIN
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)

PITUITARY-DIENCEPHALON HORMONES, VASOPRESSIN
SEE ALSO METABOLIC DISORDERS (INBORN), DIABETES INSIPIDUS
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
R01HL-03181-21 0027 Hemodynamics as applied to surgical problems - Hemodynamic studies of the GI tract (dogs)
R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
P01HL-06285-18 0196 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Epithelial cell membranes (toads)
** P01HL-06664-17 0038 Cardiopulmonary function in remediable vascular disease - The dynamics of ADH-stimulated osmotic water flow
P01HL-06664-17 0040 Cardiopulmonary function in remediable vascular disease - The coupling of ion transport to metabolism (toads)
P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors--Reflex regulation of renal function (dogs)
R01HL-08893-14 Structure and function of membrane proteins (human)
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
M P01HL-11678-11 Cardiovascular dynamics and their control
** P01HL-11678-11 0001 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (rats, dogs)
** P01HL-11678-11 0027 Cardiovascular dynamics and their control - Vasopressin and thirst in control of body fluid volumes and osmolality (dogs)
P01HL-11678-11 0034 Cardiovascular dynamics and their control - Renal function curves in intact dogs
** P01HL-11678-11 0040 Cardiovascular dynamics and their control - Control of plasma potassium concentration (dogs)
P01HL-11678-11 0046 Cardiovascular dynamics and their control - Regulation of aldosterone secretion and related factors (dogs)
P01HL-11678-11 0058 Cardiovascular dynamics and their control - Overall control of the circulation--Computer analysis
P01HL-11678-11 0059 Cardiovascular dynamics and their control - Basic hemodynamics (dogs, rats)
** P01HL-12738-10 0114 Physiologic pharmacology and its clinical applications - Receptor specificites and metabolism of neurohypophysial hormones (rats)
** P01HL-12738-10 0129 Physiologic pharmacology and its clinical applications - Receptor specificities and metabolism of vasopressin analogs
** R01HL-12990-09 Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits)
R01HL-13623-08 Atrial receptors (dogs)
R01HL-14306-07 Quantification of arterial pressure control (dogs)
P01HL-14388-07 0156 Regulation of the circulation in pathological states - Blood pressure with drinking to intracranial angiotensin II injections (rats)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
** P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-14388-07 9002 Regulation of the circulation in pathological states - Core immunoassay laboratory (rabbits)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
R01HL-15810-06 Electrolyte physiology and respiratory acid-base (dogs)
R01HL-16489-04 Renal prostaglandins--Synthesis and function (human, dogs, rats)
R01HL-17571-03 Study of membrane permeability by NMR relaxation (human)
R01HL-18015-03 Pharmacologic studies on vascular smooth muscle (dogs, rats)
R01HL-18020-04 Splanchnic hemodynamics in man
R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
P01HL-18575-03 0005 Mechanisms of vascular changes in hypertension - Renin synthesis in normotensive and hypertensive pigs (also rats, dogs)
R01HL-18862-02 Thirst and its contribution to edema (dogs)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
R01HL-19057-03 Catecholamines and cyclic AMP in cardiovascular system (rats, dogs)
** R01HL-19209-03 Role of ADH in experimental renal hypertension (dogs, rats)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
R01HL-19320-03 Angiotensin neuropharmacology--Relationship to sodium
R01HL-20685-02 Pituitary-adrenergic-ovarian vasomotor interaction (dogs)
R01HL-20768-02 Mechanisms of circulatory regulation in heart failure (guinea pigs)
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)
R01HL-21094-01 Arterial baroreceptors and renal function (dogs)
R01HL-21272-02 Sodium homeostasis and renal prostaglandins (dogs)
R01HL-21308-01 Prostaglandins and local control of the circulation (rats, dogs)
** R01HL-22051-01 Role of angiotensin II in vasopressin release (human)
R01HL-22069-02 Experimental renal arterial hypertension (dogs)
R01HL-22411-01 Neuroendocrine involvement in hypertension (rats)
R01HL-22561-01 Hormonal control of mesenteric circulation (cats)
R01HL-22617-01 Angiotensin, hypertension and the CNS (sheep)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

PITUITARY-DIENCEPHALON HORMONES, VASOPRESSIN, ARGININE VASOPRESSIN
R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)

PITUITARY DWARFISM
SEE SKELETAL DISORDERS, BONE DEVELOPMENT, DWARFISM, PITUITARY

PITUITARY GLAND
SEE ALSO PITUITARY-DIENCEPHALON (HORMONES)
** P01HL-16387-04 0009 The blood vessel and thrombogenesis - Role of pituitary gland in the pathogenesis of arteriosclerotic lesions (rats)
R01HL-17847-04 Cardiovascular and renal functions of marmots

PITUITARY GLAND, NEUROHYPOPHYSIS
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)

PITUITARY GLAND DISORDERS, ACROMEGALY
SEE ALSO PITUITARY-DIENCEPHALON HORMONES, SOMATOTROPIN
R01HL-20517-03 Diabetes, somatotropin, factor VIII and atherosclerosis (human, animal)

PITUITARY GLAND DISORDERS, HYPOPITUITARISM
SEE ALSO SKELETAL DISORDERS, BONE DEVELOPMENT, DWARFISM, PITUITARY
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
R01HL-20517-03 Diabetes, somatotropin, factor VIII and atherosclerosis (human, animal)

PITUITARY HORMONES
SEE PITUITARY-DIENCEPHALON HORMONES, PITUITARY HORMONES

PITUITARY REMOVAL
R01HL-19322-03 Role of pituitary hormones in the action of vitamin K (rats)

PITUITARY-THYROID AXIS
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)

PKG DEFICIENCY
SEE METABOLIC DISORDERS INBORN, PHOSPHOGLYCERATE KINASE DEFICIENCY

PLACEBO EFFECT
SEE THERAPY, PLACEBO EFFECT

PLACENTA
SEE PREGNANCY, PLACENTA

PLACENTAL BARRIER
SEE PREGNANCY CIRCULATION, PLACENTAL TRANSFER

PLACENTAL CIRCULATION
SEE PREGNANCY CIRCULATION

PLACENTAL CIRCULATORY DISORDERS
SEE PREGNANCY CIRCULATORY DISORDERS

PLACENTAL HORMONES
SEE REPRODUCTIVE HORMONES, PLACENTAL HORMONES

PLACENTAL TRANSFER
SEE PREGNANCY CIRCULATION, PLACENTAL TRANSFER

PLANNING, FAMILY
SEE FAMILY PLANNING

PLANNING, REGIONAL MEDICAL
SEE HEALTH CARE (SERVICES)(RESOURCES)PLANNING, REGIONAL MEDICAL PLANNING

PLANNING AND MANAGEMENT, PATIENT CARE
SEE HEALTH CARE SERVICES, PATIENT CARE MANAGEMENT, PLANNING

PLANNING OF BIOMEDICAL RESEARCH PROGRAMS
SEE HEALTH SCIENCES RESEARCH ANALYSIS-EVALUATION-PLANNING

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

PLANNING OF EDUCATIONAL PROGRAMS (SYSTEMS)
SEE EDUCATION PROGRAMS (SYSTEMS) EVALUATION PLANNING

PLANNING OF HEALTH RESOURCES-SERVICES
SEE HEALTH CARE (SERVICES)(RESOURCES) PLANNING

PLANT EXTRACTS
SEE PLANTS EXTRACTS

PLANT OILS (FATS)
SEE LIPIDS, OILS, VEGETABLE OILS

PLANTS (GENERAL)*
** P01HL-08214-15 0048 Chemical and biological properties of lipids - Lipids in microorganisms and plants

PLANTS, ANGIOSPERMS (GENERAL)*
R01HL-12971-15 Reactions of alkoloids and their analogs

PLANTS, ANGIOSPERMS, ALLIUM*
R01HL-19399-02 Atherosclerosis--Early events and regression factors (rats)

PLANTS, ANGIOSPERMS, LEGUMES, ALFALFA*
P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
R01HL-16587-04 Cholesterol binding saponins and atherosclerosis (monkeys)

PLANTS, ANGIOSPERMS, POKEWEED*
N01HB-62962-02 Red cell distributions in cyanate-treated blood (human, sheep)

PLANTS, ANGIOSPERMS, RAGWEED*
P50HL-14153-07 0011 Johns Hopkins Lung Center--Chronic diseases of airways - Allergy, airways reactivity and asthma in human ragweed allergy

PLANTS, BRYOPHYTES, MOSSES*
P01HL-08214-15 0048 Chemical and biological properties of lipids - Lipids in microorganisms and plants

PLANTS, FERNS*
P01HL-08214-15 0048 Chemical and biological properties of lipids - Lipids in microorganisms and plants

PLANTS EXTRACTS
SEE ALSO LIPIDS, OILS, CROTON OIL
SEE ALSO NATURAL PRODUCTS
SEE ALSO PLANTS PROTEINS
** R01HL-07502-13 Phytochemistry of the genus thalictrum (dogs, plants)

PLANTS EXTRACTS, MEDICINAL PLANTS
SEE ALSO ALKALOIDS
SEE ALSO BIOLOGICAL PREPARATIONS AND STANDARDIZATION
SEE ALSO CARBOHYDRATES, GLYCOSIDES
R01HL-12971-15 Reactions of alkoloids and their analogs

PLANTS GROWTH REGULATORS
SEE ALSO PLANTS PROTEINS, LECTINS
P01HL-08214-15 0030 Chemical and biological properties of lipids - Fatty acid biosynthesis in plant cell cultures and in plants

PLANTS PROTEINS
R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin

PLANTS PROTEINS, LECTINS
N01HB-62962-02 Red cell distributions in cyanate-treated blood (human, sheep)
R01HL-01803-23 0015 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic endothelial injury and lipid diet atherosclerosis (rabbits, monkey)
R01HL-05351-18 Blood group antigens and antibodies (human, rabbits, sheep)
P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease - Mitogenic and antigenic activation of lymphocyte sub-populations
R01HL-11154-12 Blood group antigens and antibodies (human)
P50HL-14164-07 0044 A/S SCOR--Comparative and experimental atherosclerosis - Cell biology-atherosclerosis project (pigeons)
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
R01HL-20971-10 Membrane glycoproteins of platelets and leukocytes (human)
R01HL-21692-02 Purification of erythropoietin (human)
** R01HL-23010-01 Control and mechanism of platelet aggregation (human)

PLANTS PROTEINS, LECTINS, CONCANAVALIN A
P01HL-03174-23 0009 Mechanisms of acute vascular reaction to injury - Mast cell lipid interaction (human, rats)
P01HL-06314-17 0053 Immunologic mechanisms in cardiovascular disease - Cellular functions controlled by cyclic GMP (human, mice, guinea pigs)
P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease - Mitogenic and antigenic activation of lymphocyte sub-populations
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center Lymphocytes in graft rejection and immune surveillance (human)
R01HL-08696-15 0012 Orthotopic heart transplantation Transplantation immunology Modulation of donor antigenicity (dogs)
R01HL-08696-15 0013 Orthotopic heart transplantation Transplantation immunology Cardiac heterotransplantation (rabbits, dogs)
** R01HL-08696-15 0019 Orthotopic heart transplantation Suppressor cell stimulation (dogs, mice)
P01HL-17417-05 0001 Experimental lung transplantation - Mechanisms and mediators of lung allograft rejection (dogs, mice)
R01HL-20971-10 Membrane glycoproteins of platelets and leukocytes (human)
R23HL-22448-01 Modulation of heart graft antigenicity by perfusion (rats)

PLASMA
SEE BLOOD AND RE SYSTEM, BLOOD, PLASMA

PLASMA AMINO ACIDS
SEE AMINO ACIDS, SERUM AMINO ACIDS

PLASMA KININ
SEE PEPTIDES, VASOACTIVE PEPTIDES, KALLIDIN

PLASMA LIPIDS
SEE LIPIDS BLOOD

PLASMA LIPOPROTEINS
SEE LIPOPROTEINS BLOOD

PLASMA MEMBRANE
SEE CELL COMPONENTS, CELL MEMBRANE

PLASMA PROTEINS
SEE BLOOD PROTEINS

PLASMA SUBSTITUTES
SEE BLOOD SUBSTITUTES, PLASMA SUBSTITUTES

PLASMA THROMBOPLASTIN ANTECEDENT
SEE BLOOD COAGULATION, FACTOR XI

PLASMA THROMBOPLASTIN COMPONENT
SEE BLOOD COAGULATION, FACTOR IX

PLASMA THROMBOPLASTINOGEN
SEE BLOOD COAGULATION, FACTOR VIII

PLASMA THROMBOPLASTINOGEN B
SEE BLOOD COAGULATION, FACTOR IX

PLASMALEMMA
SEE CELL COMPONENTS, CELL MEMBRANE

PLASMALOGENS
SEE PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PLASMALOGENS

PLASMAPHERESIS
SEE BLOOD TREATMENT, PLASMAPHERESIS

PLASMIN
SEE BLOOD COAGULATION, PLASMIN

PLASMIN INHIBITORS
SEE BLOOD COAGULATION, ANTIFIBRINOLYTIC AGENTS

PLASMINOGEN
SEE BLOOD COAGULATION, PLASMINOGEN

PLASMINOGEN PROACTIVATOR ACTIVATORS
SEE BLOOD COAGULATION, LYSOKINASE

PLASTICS
SEE ALSO PROSTHESIS
R01HL-11418-09 Poly-diaminophosphazenes
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
R23HL-21805-01 Tissue cell interactions with vascular prostheses (human, rats, mice)
R01HL-22110-02 Healing complications in vascular grafting (dogs)

PLASTICS, ACRYLIC POLYMERS
P50HL-19170-02 0005 Harvard pulmonary SCOR--Chronic diseases of the airways - Pulmonary toxicology of plastics intermediates and pyrolysis products (animal)
R01HL-20079-02 0001 Thromboresistant material - Active and passive thromboresistant surfaces
R01HL-20079-02 0002 Thromboresistant material - Thromboresistant materials (sheep)

PLASTICS, ACRYLIC POLYMERS, METHACRYLATES
R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
** R01HL-20079-02 0001 Thromboresistant material - Active and passive thromboresistant surfaces
R01HL-20079-02 0003 Thromboresistant material - Blood surface interactions (human, cattle)
R01HL-21769-01 Blood compatible benzamidine containing polymers

PLASTICS, ELASTOMERS
SEE ALSO PLASTICS, RUBBER
SEE ALSO PLASTICS, SILICONE RUBBER
P01HL-13738-08 0005 Cardiac assist devices and artificial hearts Development of new materials for artificial heart and assist devices (sheep, dog)
P01HL-15195-04 0001 Program project in biological materials Design and synthesis
** N01HV-32949-11 Modification of silicon elastomers for medical devices
N01HV-32959-10 Development of materials for heart assist devices
N01HV-72918-01 Test polymers for circulatory assist devices

PLASTICS, FLUOROCARBON POLYMERS
P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center Morphologic analysis of vascular prosthesis (human, dogs)
** R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
R01HL-17369-04 Arterial bypass surgery--Structure and metabolism (monkeys)
R01HL-17705-04 Kallikrein-kinin system in hypertension (human, rats, dogs)
P50HL-19170-02 0005 Harvard pulmonary SCOR--Chronic diseases of the airways - Pulmonary toxicology of plastics intermediates and pyrolysis products (animal)

PLASTICS, NYLON
P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
R01HL-21632-02 Development of a transcutaneous power transfer system (cattle)

PLASTICS, POLYETHYLENES
P01HL-06664-17 0010 Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
R01HL-20079-02 0002 Thromboresistant material - Thromboresistant materials (sheep)
** R01HL-21791-01 Precipitation of proteins with poly (ethylene glycol) (human)
P01HL-22163-01 9001 Surface thrombogenesis--Mechanisms and prevention - Polymers for studing blood-material interactions core

PLASTICS, POLYETHYLENE TEREPHTHALATES
P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
P01HL-13737-07 0002 Assisted circulation - U-shaped mechanical auxiliary ventricle (dogs)
R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
R01HL-21632-02 Development of a transcutaneous power transfer system (cattle)
N01HV-12065-16 Fabrication of implantable artificial heart devices (animals)

PLASTICS, POLYURETHANES
R01HL-13803-07 Advanced cardiac valvular and vascular prosthesis (dogs, baboons)
P50HL-19170-02 0005 Harvard pulmonary SCOR--Chronic diseases of the airways - Pulmonary toxicology of plastics intermediates and pyrolysis products (animal)
R01HL-20037-02 Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle)
** R01HL-20079-02 0002 Thromboresistant material - Thromboresistant materials (sheep)
R01HL-20356-02 Development and evaluation of an artificial heart (calves)
P01HL-22163-01 9001 Surface thrombogenesis--Mechanisms and prevention - Polymers for studing blood-material interactions core
R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)
N01HV-12017-15 Fabrication of grafted hydrogel coatings for plastic heart assist devices
N01HV-81388-20 Microfiber substrate for growth of intimal linings in circulatory assist devices

PLASTICS, POLYVINYLS
SEE ALSO PLASTICS, POLYETHYLENES
SEE ALSO PLASTICS, STYRENE POLYMERS
** P50HL-19170-02 0005 Harvard pulmonary SCOR--Chronic diseases of the airways - Pulmonary toxicology of plastics intermediates and pyrolysis products (animal)
R01HL-20079-02 0001 Thromboresistant material - Active and passive thromboresistant surfaces
R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)

PLASTICS, RUBBER
R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)

PLASTICS, SILICONE RUBBER
R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-20D79-02 0002 Thromboresistant material - Thromboresistant materials (sheep)
R01HL-21632-02 Oevelopment of a transcutaneous power transfer system (cattle)
R01HL-22888-01 Prosthetic valve endocarditis--Etiology and therapy (dogs)

PLASTICS, STYRENE POLYMERS
SEE ALSO AMMONIUM QUATERNARY, CHOLESTYRAMINE
P5DHL-19170-D2 DDD5 Harvard pulmonary SCOR--Chronic diseases of the airways - Pulmonary toxicology of plastics intermediates and pyrolysis products (animal)
R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)
ND1HV-32959-1D Development of materials for heart assist devices

PLATELET ACTIVATING FACTOR
SEE BLOOO PLATELETS, PLATELET ACTIVATING FACTOR

PLATELET AGGREGATION
SEE BLOOD PLATELETS, PLATELET AGGREGATION

PLATELET AGGREGATION INHIBITORS
SEE BLOOD COAGULATION, ANTICOAGULANTS, PLATELET AGGREGATION INHIBITORS

PLATELET COFACTOR I
SEE BLOOD COAGULATION, FACTOR VIII

PLATELET FACTOR III
SEE BLOOD COAGULATION, PLATELET FACTOR III

PLATELET PRESERVATION
SEE BLOOO PRESERVATION, PLATELET PRESERVATION

PLATELET TRANSFUSION
SEE BLOOD TRANSFUSION, PLATELET TRANSFUSION

PLATELET TYPING
SEE BLOOO PLATELET TYPING

PLATELETPHERESIS
SEE BLOOD TREATMENT, PLATELETPHERESIS

PLATINUM ELECTRODES
SEE ELECTROOES, PLATINUM*

PLATYRHINES
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIOS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*

PLEIOTROPISM
SEE GENETICS, GENES, GENE EXPRESSION, PLEIOTROPISM

PLETHORA
SEE CARDIOVASCULAR DISOROERS, HYPERVOLEMIA

PLETHYSMOGRAPHY
SEE CAROIOVASCULAR DISOROERS OIAGNOSIS, PLETHYSMOGRAPHY*

PLEURAL CAVITY
SEE BODY CAVITIES, PLEURAL CAVITY

PLEURAL DISORDERS
SEE BODY CAVITY OISORDERS, PLEURAL

PLEURAL EFFUSIONS
SEE BOOY CAVITY OISORDERS, PLEURAL EFFUSIONS

PLEUROPNEUMONIA-LIKE ORGANISMS
SEE BACTERIA, MYCOPLASMATALES, MYCOPLASMA*

PLUMBISM
SEE METALS POISONING, LEAO POISONING

PMA (PHORBOL MYRISTATE)
SEE LIPIOS, OILS, CROTON OIL

PNEUMOANEMOMETER
SEE RESPIRATORY OISOROERS OIAGNOSIS, RESPIRATORY AIRFLOW MEASUREMENTS*

PNEUMOCARDIOGRAPHY
SEE HEART OISOROERS OIAGNOSIS, PNEUMOCAROIOGRAPHY*

PNEUMOCOCCAL VACCINE
SEE VACCINES, BACTERIAL, PNEUMOCOCCAL VACCINE

PNEUMOCOCCUS
SEE BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS PNEUMONIAE*

PNEUMOCONIOSIS
SEE RESPIRATORY OISOROERS, PNEUMOCONIOSIS

PNEUMOCYSTIS PNEUMONITIS
SEE RESPIRATORY OISOROERS, PNEUMONIA PNEUMOCYSTIS

PNEUMOENCEPHALITIS VIRUS AVIAN
SEE VIRUSES, PARAMYXOVIRUSES, NEWCASTLE OISEASE VIRUS

PNEUMOGRAPH
SEE RESPIRATORY OISOROERS OIAGNOSIS, PNEUMOGRAPH*

PNEUMONECTOMY
SEE RESPIRATORY SYSTEM SURGERY, PNEUMONECTOMY

PNEUMONIA
SEE RESPIRATORY OISOROERS, PNEUMONIA

PNEUMONIA ATYPICAL (PPLO)
SEE RESPIRATORY OISORDERS, PNEUMONIA MYCOPLASMAL (PPLO)

PNEUMONIA BACTERIAL
SEE RESPIRATORY OISOROERS, PNEUMONIA BACTERIAL

PNEUMONIA PNEUMOCYSTIS
SEE RESPIRATORY DISORDERS, PNEUMONIA PNEUMOCYSTIS

PNEUMONIA VIRAL
SEE RESPIRATORY OISOROERS, PNEUMONIA VIRAL

PNEUMONITIS
SEE RESPIRATORY OISORDERS, PNEUMONIA

PNEUMONITIS, HYPERSENSITIVITY
SEE RESPIRATORY DISOROERS, PNEUMONITIS ALLERGIC INTERSTITIAL

PNEUMORADIOGRAPHY
SEE RADIOGRAPHY, PNEUMORAOIOGRAPHY*

PNEUMOTACHOGRAPHY, HEART
SEE HEART OISOROERS OIAGNOSIS, PNEUMOCARDIOGRAPHY*

PNEUMOTACHOGRAPHY, RESPIRATORY
SEE RESPIRATORY OISOROERS OIAGNOSIS, RESPIRATORY AIRFLOW MEASUREMENTS*

PNEUMOTHORAX (GENERAL)
SEE BOOY CAVITY OISORDERS, PLEURAL, PNEUMOTHORAX (GENERAL)

POIKILOTHERMS
SEE TEMPERATURE (BOOY), POIKILOTHERMS

POINT MUTATION
SEE GENETICS, MUTATION, GENE MUTATION, POINT MUTATION

POISON CONTROL AND PREVENTION
SEE TOXICOLOGY, POISON CONTROL ANO PREVENTION

POKEWEEDS
SEE PLANTS, ANGIOSPERMS, POKEWEEO*

POLAR MOLECULES
SEE MOLECULAR POLARITY

POLARCARDIOGRAPHY
SEE HEART OISORDERS OIAGNOSIS, POLARCAROIOGRAPHY*

POLARIMETRY
SEE OPTICAL ROTATION*

POLARIZED PUMPING MEMBRANES
SEE BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS

POLAROGRAPHY
SEE ELECTRICAL MEASUREMENTS, POLAROGRAPHY*

POLLUTANTS, ENVIRONMENTAL (GENERAL)
SEE ENVIRONMENTAL HEALTH, CONTAMINATION (GENERAL)

POLLUTANTS INTERACTION
SEE PHYSICAL ANO/OR CHEMICAL AGENTS INTERACTION (BIOLOGICAL ANO ECOLOGICAL), POLLUTANTS INTERACTION

POLLUTION (GENERAL)
SEE AIR POLLUTION
SEE ENVIRONMENTAL HEALTH, CONTAMINATION (GENERAL)
SEE PHYSICAL PROPERTIES, SOUND, NOISE POLLUTION

POLYACETYLENES
SEE ALKYNES

POLYADENYLIC ACID
SEE PURINE NUCLEOTIDES, ADENINE NUCLEOTIOES, POLYADENYLIC ACID

POLYAMINES
SEE AMINES, POLYAMINES

POLYANIONS
SEE IONS, POLYIONS, POLYANIONS

POLYBROMINATED BIPHENYLS AND TRIPHENYLS
SEE HALOBENZENES, HALOGENATEO BIPHENYLS-TRIPHENYLS ANO ANALOGS

POLYCHLORINATED BIPHENYLS AND TRIPHENYLS
SEE HALOBENZENES, HALOGENATEO BIPHENYLS-TRIPHENYLS ANO ANALOGS

POLYCHLORINATED DIBENZODIOXINS
SEE HALOBENZENES, HALOGENATEO BIPHENYLS-TRIPHENYLS ANO ANALOGS

POLYCYCLIC HYDROCARBONS
SEE CYCLICS, CARBOPOLYCYCLICS

POLYCYTHEMIA
SEE BLOOO ANO RE OISOROERS, BONE MARROW, POLYCYTHEMIA

POLYELECTROLYTES
SEE IONS, ELECTROLYTES, POLYELECTROLYTES

POLYENES
SEE CHEMICAL BONDS, UNSATURATEO COMPOUNOS, POLYENES

POLYETHYLENE TEREPHTHALATES
SEE PLASTICS, POLYETHYLENE TEREPHTHALATES

POLYETHYLENES
SEE PLASTICS, POLYETHYLENES

POLYGLUTAMIC ACID
SEE PEPTIOES, HOMOPEPTIOES, GLUTAMYL

POLYLYSINE
SEE PEPTIDES, HOMOPEPTIOES, LYSINE PEPTIOES

POLYMERASES
SEE LIGASES

POLYMERIZATION
SEE MOLECULAR CONDENSATIONS, POLYMERIZATION-OEPOLYMERIZATION

POLYMERS
SEE MOLECULAR CONOENSATIONS, POLYMERS (GENERAL)

POLYMORPHISM (BIOLOGY)
SEE BIOLOGY, POLYMORPHISM

POLYMORPHONUCLEAR LEUKOCYTES
SEE BLOOO CELLS, LEUKOCYTES, NEUTROPHILS

POLYNESIANS
SEE SOCIAL GROUPS, ETHNIC, POLYNESIANS

POLYNUCLEOTIDE LIGASE
SEE NUCLEIC ACIDS REPAIR, DNA REPAIR (ENZYME)

POLYNUCLEOTIDE LIGASE (NAD)
SEE NUCLEIC ACIOS REPAIR, ONA REPAIR (ENZYME)

POLYNUCLEOTIDE SYNTHETASE (ATP)
SEE NUCLEIC ACIOS REPAIR, ONA REPAIR (ENZYME)

POLYNUCLEOTIDE SYNTHETASE (NAD)
SEE NUCLEIC ACIDS REPAIR, DNA REPAIR (ENZYME)

POLYNUCLEOTIDES
SEE NUCLEOTIOES, POLYNUCLEOTIOES

POLYPEPTIDES
SEE PEPTIDES, POLYPEPTIOES

POLYPHENOL OXIDASE
SEE OXYGENASES, MONOPHENOL MONOOXYGENASE

POLYPHOSPHATES
SEE PHOSPHATES, POLYPHOSPHATES

POLYSACCHARIDE C-O LYASES, HEPARINASE
** RD1HL-17726-03 Bacterial heparinase in diagnostic coagulation studies

POLYSACCHARIDE C-O LYASES, HYLURONATE LYASE
RD1HL-19136-03 Mucopolysaccharide metabolism in cardiac anomalies (rats)

POLYSACCHARIDES
SEE ALSO CARBOHYDRATES STRUCTURE, SUGAR SEQUENCE
P01HL-16769-05 0011 Pathobiologic and host defense reactions in the lung - Core--Laboratory for biomedical preparation (rabbits)
R01HL-18607-D3 Metabolic and drug studies on experimental fat embolism (mice)
RD1HL-2091D-02 The alternative diet for coronary disease prevention (human)
R01HL-21615-01 Structural studies of lung heparinoid polysaccharides (cattle)

POLYSACCHARIDES, BACTERIAL (GENERAL)
SEE ALSO IMMUNOLOGY, ANTIGENS BACTERIAL
P60HL-15162-D7 DD21 Comprehensive sickle cell center - Pneumococcal vaccine in sickle cell disease (children)
P60HL-2D985-01 0002 Northern California sickle cell center - Immunization with polyvalent pneumococcal polysaccharide vaccine (human)

POLYSACCHARIDES, GLYCOSAMINOGLYCANS
SEE ALSO POLYSACCHARIOES, LIPOPOLYSACCHARIOES
RD1HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
RD1HL-03299-21 Oietary effects on cholesterol metabolism (rats, rabbits)
RO1HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
RD1HL-10018-11 Effect of aging on beating heart cells in culture (rats)
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
** PO1HL-13262-07 0018 Arterial wall in atherosclerosis - Vasoactive factors of human plasma
PO1HL-13262-07 0025 Arterial wall in atherosclerosis - Phospholipid and cholesterol esters

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P50HL-14164-07 0029 A/S SCOR--Comparative and experimental atherosclerosis - Development of pigeon substrains
P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
P50HL-15103-07 0014 A/S SCOR--Early natural history of arteriosclerosis - Biochemistry of atherosclerotic lesions (monkeys, human, cattle)
** R01HL-15155-05 Rheology of pulmonary secretions (dogs)
M P01HL-15832-06 Chemical-structural predispositions to lung injury
P01HL-15832-06 0001 Chemical-structural predispositions to lung injury - Chemical composition of lung connective tissue proteins (human, animals)
P01HL-15832-06 0002 Chemical-structural predispositions to lung injury - Connective tissue in lung in development and repair of injury (human, rats, mice)
P01HL-15832-06 0005 Chemical-structural predispositions to lung injury - Pulmonary structure and stress-strain relationships (rats)
P01HL-15832-06 0008 Chemical-structural predispositions to lung injury - Interstitial fibrosis--Connective tissue components in normal and diseased lungs
P01HL-15835-06 0025 Study of muscles related to heart disease - Cellular biology of vascular smooth muscle (guinea pig)
P01HL-16769-05 0011 Pathobiologic and host defense reactions in the lung - Core--Laboratory for biomedical preparation (rabbits)
R01HL-16955-05 Heparin, blood coagulation and lipid metabolism (human)
R01HL-17513-04 Role of PF-4 in detecting and promoting thrombosis (human, primates)
R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
** R01HL-17995-04 Cellular synthesis and release of mucopolysaccharides (rabbits)
P01HL-18645-03 0001 Biology of the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
** R01HL-18692-03 Glycosaminoglycans and lipoproteins of human plasma
R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
R01HL-19252-02 Vascular connective tissue--Role in atherosclerosis (rabbits)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
** R01HL-19685-03 Pathogenesis of inflammation of the lung (guinea pigs)
** P01HL-19717-02 0006 Response of the lung to injury - Glycosaminoglycans and proteoglycans of the lung (human, rats, hamsters)
P01HL-19717-02 0008 Response of the lung to injury - Experimental models of lung disease
P01HL-19717-02 0022 Response of the lung to injury - Localization of enzymes and sites of action in experimental emphysema (hamsters)
P01HL-19717-02 0023 Response of the lung to injury - Postnatal lung development--Cells, connective tissue and physiology (animals)
P01HL-19717-02 0028 Response of the lung to injury - Compensatory growth of the lung following pneumonectomy (rabbits)
** R01HL-20447-03 Connective tissue and diabetic vascular disease (human)
R01HL-21498-02 Pathophysiology of edema (rats, cats)
R01HL-21592-01 Lipoproteins and coagulation factors in atherosclerosis (pigeons)
R01HL-21612-02 Biochemistry of lung proteoglycans (human, rabbits)
** R01HL-21617-02 Biochemistry of lung proteoglycans (rabbits, cattle)
R01HL-21626-01 Proteoglycans of animal lung parenchyma (cattle, pigs, rabbits)
** R01HL-21641-02 Structural studies of lung proteoglycans (pigs, cattle, rabbits)
R01HL-21646-02 Biosynthesis of fractionated proteoglycans of lung (rabbits)
R01HL-21994-01 Structure and development of regenerating capillaries (rabbits, chick embryo)
R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
N01HV-42969-06 Interactions of natural and chemically modified biopolymers with blood (dogs)

POLYSACCHARIDES, GLYCOSAMINOGLYCANS, CHONDROITIN SULFATE

P01HL-11310-12 0104 Mechanisms of cardiovascular disease - Structure of connective tissue proteoglycans (rabbits)
P50HL-15103-07 0014 A/S SCOR--Early natural history of arteriosclerosis - Biochemistry of atherosclerotic lesions (monkeys, human, cattle)
P01HL-15832-06 0001 Chemical-structural predispositions to lung injury - Chemical composition of lung connective tissue proteins (human, animals)
P50HL-17651-04 0045 Ischemic heart disease specialized center of research - Peripheral vascular studies--Pharmacology (dogs, human)
** R01HL-19136-03 Mucopolysaccharide metabolism in cardiac anomalies (rats)
R01HL-19399-02 Atherosclerosis--Early events and regression factors (rats)
R01HL-21612-02 Biochemistry of lung proteoglycans (human, rabbits)
R01HL-21617-02 Biochemistry of lung proteoglycans (rabbits, cattle)
N01HV-42969-06 Interactions of natural and chemically modified biopolymers with blood (dogs)

POLYSACCHARIDES, GLYCOSAMINOGLYCANS, DERMATAN SULFATE

R01HL-20447-03 Connective tissue and diabetic vascular disease (human)
R01HL-21612-02 Biochemistry of lung proteoglycans (human, rabbits)
R01HL-21617-02 Biochemistry of lung proteoglycans (rabbits, cattle)

POLYSACCHARIDES, GLYCOSAMINOGLYCANS, HEPARAN SULFATE

P01HL-11310-12 0103 Mechanisms of cardiovascular disease - Heparin--Metabolism and function
R01HL-17995-04 Cellular synthesis and release of mucopolysaccharides (rabbits)
R01HL-19820-02 The chemistry and biological effects of heparin (Rhesus, human, other mammals)
R01HL-20447-03 Connective tissue and diabetic vascular disease (human)
R01HL-21615-01 Structural studies of lung heparinoid polysaccharides (cattle)
R01HL-21617-02 Biochemistry of lung proteoglycans (rabbits, cattle)
** R01HL-21763-09 Heparin and heparan sulfate--Structure and activity (beef, hog)

POLYSACCHARIDES, GLYCOSAMINOGLYCANS, HEPARIN

SEE ALSO BLOOD COAGULATION, HEPARIN CO-FACTOR
SEE ALSO LIPASES, LIPOPROTEIN LIPASE
R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
P01HL-03174-23 0009 Mechanisms of acute vascular reaction to injury - Mast cell lipid interaction (human, rats)
P01HL-06285-18 0204 Cardiovascular-respiratory physiology and biochemistry - Lipoprotein lipase and triglyceride transport in chylomicrons (guinea pig, rat)
R01HL-09739-13 Biophysical studies of proteins (human)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
** P01HL-11310-12 0103 Mechanisms of cardiovascular disease - Heparin--Metabolism and function
R01HL-13626-06 Lipoprotein lipase and lipoprotein removal (human, rats, bacteria)
P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
P01HL-13738-08 0003 Cardiac assist devices and artificial hearts - Pathophysiological effects of the artificial heart (calves)
R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
P50HL-14147-08 0018 Specialized center of research in thrombosis - Biochemical aspects of platelet function in thrombosis and cell growth (human)
P50HL-14187-07 0008 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary thromboembolism (dogs, human)
P50HL-14230-07 0098 A/S SCOR--Lipids, atherosclerosis and thrombosis - Molecular properties of factor VIII (cattle, human, mice)
** R01HL-14992-07 Mechanism of thrombin action (human)
P01HL-15486-06 0002 Studies on thrombosis - Characterization of antisera to fibrinopeptide B (human, rabbits)
P01HL-15486-06 0004 Studies on thrombosis - Thrombosis, intravascualr coagulation, platelet aggregation (dogs)
P01HL-15486-06 0006 Studies on thrombosis - Clinical investigation unit
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
** P01HL-15596-05 0017 Coagulation, fibrinolysis, hemostasis and hepatitis - Heparin and antithrombin III
R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
R01HL-15681-06 Coronary flow studies of partially obstructed vessels (dogs)
R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
R01HL-16582-05 Artificial lungs (dogs)
P01HL-16851-04 0008 Human red cell membrane in health and disease - Force balance in red cell interactions (human)
** R01HL-16955-05 Heparin, blood coagulation and lipid metabolism (human)
R01HL-17513-04 Role of PF-4 in detecting and promoting thrombosis (human, primates)
R01HL-17726-03 Bacterial heparinase in diagnostic coagulation studies
R01HL-17747-04 Endothelial injury and regeneration (rats)
** R01HL-18068-02 Chemistry and activity of homologous heparin fractions (rodents)
** R01HL-18333-05 Thrombogenesis and hemostatic balance (rabbits, human)
P01HL-18576-03 0013 Thrombosis research program project - Early warning and monitoring test systems in thrombotic disease (human)
R01HL-18590-03 Cerebral blood flow after cardiac arrest (dogs, monkeys)
R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)
R01HL-18672-03 Dynamic studies of clot structure formation (human)
R01HL-18764-03 Biosorbable thromboresistant surfaces (dogs, rats, swine, human)
R01HL-18815-03 Surgical vascular disorders (human, dogs)
R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
R01HL-19105-02 Detection and adherence of fibrin monomer complexes (human)
R01HL-19131-04 Hypercoagulability and assays for its protection (human)
P50HL-19153-02 0003 SCOR--Pulmonary edemas--Etiology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
** R01HL-19820-02 The chemistry and biological effects of heparin (Rhesus, human, other mammals)
** R01HL-20079-02 0001 Thromboresistant material - Active and passive thromboresistant surfaces
R01HL-20079-02 0002 Thromboresistant material - Thromboresistant materials (sheep)
R01HL-20251-02 A novel approach to nonthrombogenic polymer surfaces (sheep, cattle)
R01HL-20337-02 Thromboembolic diseases (human)
P01HL-20993-02 0007 Population dynamics of arterial cells in atherogenesis - Interaction of lipoproteins in hypercholesteremia (human, swine)
** R01HL-21194-02 Development of antithrombogenic plastic biomaterials
** R01HL-21615-01 Structural studies of lung heparinoid polysaccharides (cattle)
** R01HL-21763-09 Heparin and heparan sulfate--Structure and activity (beef, hog)
** R01HL-22035-01 Molecular modification of heparin by chemical means (sheep)
R01HL-22119-01 Biochemistry of platelet function in thrombosis and cell growth (rabbits)
R01HL-22270-01 Platelet glycoprotein (human)
** R01HL-22402-01 Heparin-biophysical, chemical and biological aspects (mice, human)
R01HL-22967-01 Structure and function of heparin releasable lipases (swine, human)
R01HL-23593-01 Mast cell granules--Structure and secretion (rats)
** N01HV-32919-12 Material development and testing heparinization processes
N01HV-42969-06 Interactions of natural and chemically modified biopolymers with blood (dogs)

POLYSACCHARIDES, GLYCOSAMINOGLYCANS, HYALURONIC ACID

P50HL-15103-07 0014 A/S SCOR--Early natural history of arteriosclerosis - Biochemistry of atherosclerotic lesions (monkeys, human, cattle)
P01HL-16769-05 0010 Pathobiologic and host defense reactions in the lung - Bronchus associated lymphoid tissue and delayed hypersensitivity (rabbits)
P01HL-16769-05 0011 Pathobiologic and host defense reactions in the lung - Core--Laboratory for biomedical preparation (rabbits)
R01HL-21649-01 Biochemistry of lung proteoglycans (mammals)
N01HV-42969-06 Interactions of natural and chemically modified biopolymers with blood (dogs)

POLYSACCHARIDES, GLYCOSAMINOGLYCANS, SULFOMUCOPOLYSACCHARIDES

SEE ALSO POLYSACCHARIDES, GLYCOSAMINOGLYCANS, CHONDROITIN SULFATE
SEE ALSO POLYSACCHARIDES, GLYCOSAMINOGLYCANS, DERMATAN SULFATE
SEE ALSO POLYSACCHARIDES, GLYCOSAMINOGLYCANS, HEPARAN SULFATE
SEE ALSO POLYSACCHARIDES, GLYCOSAMINOGLYCANS, HEPARIN
SEE ALSO PROTEOGLYCANS
R01HL-21641-02 Structural studies of lung proteoglycans (pigs, cattle, rabbits)

POLYSACCHARIDES, LIPOPOLYSACCHARIDES

SEE ALSO GLYCOLIPIDS
SEE ALSO IMMUNOLOGY, ANTIGENS MICROBIAL, ZYMOSAN
P01HL-06314-17 0067 Immunologic mechanisms in cardiovascular disease - Mitogenic and antigenic activation of lymphocyte sub-populations
R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

POLYSACCHARIDES, SULFOPOLYSACCHARIDES
SEE ALSO POLYSACCHARIDES, GLYCOSAMINOGLYCANS, SULFOMUCOPOLYSACCHARIDES
R01HL-17597-05 Role of plasma lipoproteins in atherosclerosis (swine, human)

POLYSOMES
SEE CELL COMPONENTS, POLYSOMES

POLYSTYRENES
SEE PLASTICS, STYRENE POLYMERS

POLYTETRAFLUOROETHYLENES
SEE PLASTICS, FLUOROCARBON POLYMERS

POLYUNSATURATED COMPOUNDS
SEE CHEMICAL BONDS, UNSATURATED COMPOUNDS, POLYENES

POLYURETHANES
SEE PLASTICS, POLYURETHANES

POLYVINYL ALCOHOLS
SEE PLASTICS, POLYVINYLS

POLYVINYL CHLORIDE
SEE PLASTICS, POLYVINYLS

POLYVINYLS
SEE PLASTICS, POLYVINYLS

PONS
SEE BRAIN, PONS

POPULATION GENETICS ANIMAL
SEE GENETICS, POPULATION GENETICS ANIMAL

POPULATION GENETICS HUMAN
SEE GENETICS, POPULATION GENETICS HUMAN

POPULATION STUDIES ANIMAL, EPIZOOTIOLOGY
** R01HL-19163-02 Piscine erythrocytic necrosis in the Atlantic cod
R01HL-19164-03 Piscine erythrocytic necrosis in the Atlantic cod

POPULATION STUDIES ANIMAL, LONGITUDINAL STUDY
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
P50HL-14136-07 0001 Pulmonary SCOR--Airways obstructive diseases - Experimental airway obstructive disease (dogs)
P50HL-14164-07 0032 A/S SCOR--Comparative and experimental atherosclerosis - Plasma cholesterol, lesion regression and vascular function (Rhesus monkey)
R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
R01HL-16206-04 Regression of atherosclerotic plaques (monkeys, dogs)
R01HL-18712-03 Iron deficiency-hyperlipidemia in development (rats)
R01HL-19109-03 Regression of chronic atherosclerosis (rabbits)
P50HL-19362-02 0001 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of infant nutrition on atherosclerosis (baboons)
P50HL-19362-02 0002 A/S SCOR--Atherosclerosis in nonhuman primates - Infant caloric intake, adipose tissue development and atherosclerosis (baboon)
P50HL-19362-02 0003 A/S SCOR--Atherosclerosis in nonhuman primates - Heritability of characters related to atherosclerosis (baboons)
P50HL-19362-02 0012 A/S SCOR--Atherosclerosis in nonhuman primates - Induction of chronic hypertension by salt loading (baboon)
P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)
R01HL-20895-03 0006 Cineangiographic studies of cardiovascular system - Cardiomyopathy--Hemodynamic, radiologic, morphologic abnormalities (dog, rabbit)
R01HL-22661-01 Chronic total cardiopulhonary mechanical substitution (sheep)
R01HL-23201-01 Mechanisms of hypertension (human, rats)
N01HV-72933-01 Electrical energy transmission technique development (dogs)
N01HV-82919-00 Development of percutaneous energy transmission systems

POPULATION STUDIES CELL
SEE ALSO CELL GROWTH REGULATION
SEE ALSO CELL MIGRATION
P01HL-03174-23 0001 Mechanisms of acute vascular reaction to injury - Response of the vascular intima to injury (human, rats)
P01HL-03174-23 0006 Mechanisms of acute vascular reaction to injury - Atherosclerotic plaque studies using mosaic analysis (human)
P01HL-06314-17 0052 Immunologic mechanisms in cardiovascular disease - Role of cyclic nucleotides in neutrophil function (human)
P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology
P01HL-12157-11 0055 Functions and mechanisms of cell membrane ion transport - Growth and development of synthetic strand heart cells in culture (chick embryo)
P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immune response (dogs)
R01HL-13237-09 Erythrocytes during early development (human, animals)
P50HL-14212-07 0014 Correlated studies of pulmonary fibrosis - Pulmonary lavage cells, secretions in diffuse intersititial lung disease (human)
P50HL-14230-07 0099 A/S SCOR--Lipids, atherosclerosis and thrombosis - Morphological, cytochemical study of normal and altered vasculature (mice)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
P60HL-15996-06 0010 Cincinnati comprehensive sickle cell center - Whole blood viscosity in sickle cell anemia (human)
P60HL-16008-06 0014 Wayne State University comprehensive sickle cell center - Zinc and red blood cell metabolism in sickle cell anemia (rats, human)
P60HL-16008-06 0019 Wayne State University comprehensive sickle cell center - Cell mediated immunity in sickle cell anemia (human)
R01HL-16330-06 Aging-tissue injury and repair (rats)
R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
P01HL-18645-03 0005 Biology of the artery wall and atherosclerosis - Effects of atherosclerosis risk factors on endothelium of the primate
R01HL-19009-03 Morphometric analysis of the sinoatrial node (ferret)
R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
R01HL-19379-03 Characterization of small-granule cells in the lung (mammals)
R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)
R01HL-19684-03 Histotypic lung culture in circumfusion systems (mice)
R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)
P01HL-20592-02 0010 Cell biology of cardiac and skeletal muscle - Mitochondrial genesis during myocardial cell hypertrophy and hyperplasia (rats)
R01HL-20899-02 Cellular mechanisms of hemoglobin F regulation (human)
M P01HL-20993-02 Population dynamics of arterial cells in atherogenesis
** P01HL-20993-02 0001 Population dynamics of arterial cells in atherogenesis - Arterial SMC population dynamics in atherogenesis (swine)
** P01HL-20993-02 0002 Population dynamics of arterial cells in atherogenesis - Arterial endothelial dynamics in atherogenesis (swine)
** P01HL-20993-02 0003 Population dynamics of arterial cells in atherogenesis - Clonal phenomena in atherogenesis (human, hares)
P01HL-20993-02 0004 Population dynamics of arterial cells in atherogenesis - Modifications of cholesterol balance related to arterial cell divisions (swine)
P01HL-20993-02 0006 Population dynamics of arterial cells in atherogenesis - Mechanism of regression of atherosclerosis by diet and injury (swine)
P01HL-20993-02 0009 Population dynamics of arterial cells in atherogenesis - Mathematical biology--Core
R23HL-21189-01 Regulation of pulmonary endothelial cell activities (human, cattle)
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
** R23HL-21950-01 Endothelial cell mechanisms in vascular disease (human)
R01HL-22119-01 Biochemistry of platelet function in thrombosis and cell growth (rabbits)
R01HL-22664-01 Regulation of myocardial cell growth (rats, guinea pigs)
R01HL-23166-01 Pathology of mitochondria in ischemic myocardium (rats, cattle)
R01HL-23232-01 Effect of hypoxia on PVSM and its precursor cells

POPULATION STUDIES HUMAN
SEE ALSO ENVIRONMENT, ECOLOGY HUMAN
SEE ALSO FAMILY PLANNING
SEE ALSO GENETICS, POPULATION GENETICS HUMAN
SEE ALSO SOCIOENVIRONMENT, RESIDENTIAL MOBILITY, MIGRANTS
R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
N01HR-72973-01 Health education and attitudes of family toward asthmatic children

POPULATION STUDIES HUMAN, DEMOGRAPHY
R01HL-11901-12 0009 Effects of metabolic surgery on the hyperlipidemias - Cholesterol cord blood and family management program
** P60HL-15162-07 0007 Comprehensive sickle cell center - Core program--Demographic studies (human)
R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
R01HL-15790-06 Follow-up study of acute coronary heart attacks (human)
P60HL-17269-04 0043 National heart and blood vessel research and demonstration center - Dietary modification--Effect on cardiovascular risk parameters (human)
R25HL-18424-03 Blood pressure education in an industrial setting (human)
R01HL-18535-03 Epidemiology and course of viral myopericarditis (human)
R01HL-18808-04 0001 Prediction and prevention of sudden cardiac death - Prognostic significance of premature ventricular contractions (human)
R01HL-19877-02 Prevention of high blood pressure in children
R01HL-19956-03 High blood pressure in the young (human)
N01HR-72973-01 Health education and attitudes of family toward asthmatic children

POPULATION STUDIES HUMAN, EPIDEMIOLOGY
SEE ALSO CARDIOVASCULAR DISORDERS EPIDEMIOLOGY
SEE ALSO DIAGNOSTIC SERVICES, MASS SCREENING
SEE ALSO EPIDEMIOLOGY AND DISEASE CONTROL STUDY SECTION
SEE ALSO MENTAL HEALTH EPIDEMIOLOGY
SEE ALSO NEOPLASTIC DISEASE EPIDEMIOLOGY-STATISTICS
SEE ALSO NERVOUS DISORDERS EPIDEMIOLOGY
SEE ALSO RESPIRATORY DISORDERS EPIDEMIOLOGY
P60HL-15157-07 0001 Comprehensive center for sickle cell disease - Screening program (human)
** P60HL-15160-07 0009 Center for sickle cell disease - Natural history of sickle cell disease (human)
P60HL-15169-05 0012 Support for center for sickle cell disease - Evaluation of the incidence of cholelithiasis in sickle cell disease (human)
R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)
P01HL-16769-05 0007 Pathobiologic and host defense reactions in the lung - Immunogenetic factors in sarcoidosis (human)
R01HL-19307-03 Problems in prevention of rheumatic heart disease (human)
** R01HL-22838-01 Post-transfusion hepatitis in newborn children

POPULATION STUDIES HUMAN, LONGITUDINAL STUDY
N01HB-62908-07 Maternal to infant transmission of hepatitis B (human)
R01HL-03429-18 Central nervous system and coronary heart disease (human)
R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)
** R01HL-04697-17 International heart disease epidemiology (human)
P01HL-06285-18 0149 Cardiovascular-respiratory physiology and biochemistry - Microangiopathy in prediabetic and diabetic subjects (human)
P01HL-06312-17 0017 Surgical cardiology - Cardiac transplantation (human)
R01HL-08888-12 Cooperative study of drugs and coronary heart disease (men)
P01HL-09011-15 0020 A research and resource program in blood - Passive immunization in the prevention of transmission of hepatitis B (human)
R01HL-09474-11 Natural history-congenital heart defects--Joint study (human)
R01HL-09476-10 Natural history, congenital heart defects--Joint study
R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-10711-12 Cooperative study of treatment of hypertension (human)
R01HL-10718-10 Natural history of congenital heart defects--Joint study (human)
** P01HL-11310-12 0070 Mechanisms of cardiovascular disease - Factors affecting long-term mortality and morbidity after heart surgery (human)
R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)
R01HL-11901-12 0001 Effects of metabolic surgery on the hyperlipidemias - Partial ileal bypass (human)
R01HL-11901-12 0018 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass--Postoperative complications (human)
P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Determinants of performance of the whole heart (dogs)
** R01HL-12542-07 Natural history, congenital heart defects--Joint study (human)
R01HL-12833-09 Genetic and environmental influences on lung disease (human)

(contd)

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**Oriented significantly to above subject.

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P01HL-13108-09 0001 Clinical heart transplantation Therapy and prognosis (human)
R01HL-13632-08 Vascular changes in diabetes mellitus (human)
R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
R01HL-13694-08 Capillary basement membrane in cardiovascular disease (human, rats)
R01HL-13885-08 0005 Cystic fibrosis and pulmonary disease - Evaluation of lobar pulmonary lavage (human)
R01HL-13885-08 0006 Cystic fibrosis and pulmonary disease - Cell mediated immunity and Pseudomonas infections in cystic fibrosis (human)
R01HL-13885-08 9001 Cystic fibrosis and pulmonary disease - Pulmonary function core facility (infants, children)
M P50HL-14136-07 Pulmonary SCOR--Airways obstructive diseases
P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLD
P50HL-14136-07 0009 Pulmonary SCOR--Airways obstructive diseases - Tuscon epidemiological study of airways obstructive disease (human)
P50HL-14136-07 0016 Pulmonary SCOR--Airways obstructive diseases - Environmental factors in airways obstructive diseases (human)
P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
P50HL-14138-05 0010 Center for research on atherosclerosis - Diet and exercise as therapy in men with premature atherosclerosis
P50HL-14141-05 0001 SCOR for atherosclerosis in childhood - Clinical implications (infants and children)
P50HL-14141-05 0007 SCOR for atherosclerosis in childhood - Relation of lipid valves to sexual maturation at puberty (human)
** P50HL-14153-07 0001 Johns Hopkins Lung Center--Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)
P50HL-14153-07 0010 Johns Hopkins Lung Center--Chronic diseases of airways - Risk factors for airways obstruction in a rural community (human)
P50HL-14192-08 0001 Specialized center of research in hypertension - Surgical and medical treatment of renovascular hypertension (human)
P50HL-14192-08 0002 Specialized center of research in hypertension - Hypertensive patients with renal artery stenosis
P50HL-14212-07 0001 Correlated studies of pulmonary fibrosis - Clinical studies core
** P50HL-14214-07 0012 Newborn lung center for hyaline membrane disease - Pulmonary status of children who had HMD as infants
** P50HL-14214-07 0013 Newborn lung center for hyaline membrane disease - Developmental outcome of children who had HMD as infants
P50HL-14217-08 0063 Specialized center of research in thrombosis - Special clinical studies laboratory
** P50HL-14218-07 0012 Pulmonary SCOR--Newborn lung center - Longitudinal study of RDS--On-line fetal and neonatal monitoring (human)
P50HL-14218-07 0013 Pulmonary SCOR--Newborn lung center - Longitudinal study of RDS--Monitoring fetal PO2 and PCO2 during labor (human)
P50HL-14218-07 0014 Pulmonary SCOR--Newborn lung center - Longitudinal study of RDS--Monitoring fetal breathing movements (human)
** P50HL-14218-07 0015 Pulmonary SCOR--Newborn lung center - Long term follow-up of infants surviving RDS--Neurological outcome (human)
P50HL-14230-07 0088 A/S SCOR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
** P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
** P50HL-15092-07 0012 Immune and fibrotic response to occupational environments - Longitudinal evaluation of workers exposed to cotton dust
P50HL-15092-07 0013 Immune and fibrotic response to occupational environments - Epidemiology core resource
M P50HL-15103-07 A/S SCOR--Early natural history of arteriosclerosis
** P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
P60HL-15158-07 0012 Comprehensive sickle cell center - Clinical services--Pediatric patients
P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies--Dimensions, effectiveness
** P60HL-15160-07 0009 Center for sickle cell disease - Natural history of sickle cell disease (human)
P60HL-15160-07 0015 Center for sickle cell disease - Lung function abnormalities in sickle cell hemoglobinopathies (human)
P60HL-15162-07 0007 Comprehensive sickle cell center - Core program--Demographic studies (human)
P60HL-15162-07 0018 Comprehensive sickle cell center - Biochemical and genetic studies of sickle cell anemia (human)
P60HL-15162-07 0021 Comprehensive sickle cell center - Pneumococcal vaccine in sickle cell disease (children)
P60HL-15168-07 0005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)
P60HL-15168-07 0010 Comprehensive sickle cell disease center - Sickle cell center project (children)
P60HL-15169-05 0014 Support for center for sickle cell disease - Orthopaedic aspects of sickle cell disease (human)
P60HL-15170-05 0019 Support for center for sickle cell anemia - Renal handling of uric acid in sickle cell anemia (human)
R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
R01HL-15374-03 Cooperative study of drugs and coronary heart disease (human)
P50HL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
P50HL-15389-07 0009 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies--Pulmonary mycotoxicosis
P50HL-15389-07 0010 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical study--Pulmonary lesions due to non-invasive aspergillosis
R01HL-15526-05 Respiratory mechanics in children
R01HL-15790-06 Follow-up study of acute coronary heart attacks (human)
P60HL-15996-06 0001 Cincinnati comprehensive sickle cell center - Coagulation mechanisms in sickle cell disease (human)
P60HL-15996-06 0003 Cincinnati comprehensive sickle cell center - Prophylactic penicillin in treatment of sickle cell anemia (human)
P60HL-15996-06 0005 Cincinnati comprehensive sickle cell center - Factors precipitating crises (human)
** P60HL-16005-05 0018 Comprehensive sickle cell center - Comprehensive study--Natural history of sickle cell disease in adults (human)
P60HL-16005-05 0021 Comprehensive sickle cell center - Management of pregnancy in sickle cell anemia (human)
P60HL-16008-06 0001 Wayne State University comprehensive sickle cell center - Patient care system (children, adults)
** P60HL-16008-06 0009 Wayne State University comprehensive sickle cell center - Natural history of sickle cell anemia (human)
R01HL-16461-05 Late results of valve replacement--Computer analysis (human)
R01HL-16651-05 Evaluation of steroid therapy in sarcoidosis (human)
P60HL-17269-04 0004 National heart and blood vessel research and demonstration center - Atherosclerosis--Clinical surgical aspects (human)
R01HL-17578-04 Exercise performance in children with heart disease
P50HL-17648-04 0006 Study of ischemic heart disease - Ventricular performance and myocardial perfusion in obstructive coronary disease
P50HL-17651-04 0022 Ischemic heart disease specialized center of research - Electrophysiology--Mechanism and pharmacology of arrhythmias (human, dog)
P50HL-17651-04 0048 Ischemic heart disease specialized center of research - Non-invasive detection of ischemic heart disease
P50HL-17655-04 0004 Study of ischemic heart disease - Coronary arteriography in survivors of acute myocardial infarction (human)
P50HL-17655-04 0009 Study of ischemic heart disease - Random trial of medical and surgical therapy in unstable angina (human)
P50HL-17665-04 0013 Study of ischemic heart disease - National cooperative study in unstable angina pectoris (human)
P50HL-17665-04 0018 Study of ischemic heart disease - Computer correlation of data--Patients with ischemic heart disease
P50HL-17665-04 0022 Study of ischemic heart disease - Effect of coronary revascularization on left ventricular function (human)
** P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
** P50HL-17667-04 0019 Study of ischemic heart disease - Assessment of long-term results of coronary artery bypass grafting (human)
P50HL-17670-04 0012 Study of ischemic heart disease - Epidemiology of sudden death (human)
P50HL-17682-04 0001 Study of ischemic heart disease - Studies in acute and chronic ischemic heart disease (human)
** P50HL-17682-04 0003 Study of ischemic heart disease - Effects of myocardial revascularization in man
P50HL-17682-04 0008 Study of ischemic heart disease - Clinical core unit
R01HL-17993-04 0008 Ventricular dynamics from surgically inserted markers - Exercise after coronary bypass (human)
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
P50HL-18318-03 0018 Pathogenesis and complications of hypertension - Plasma renin activity in chronic ischemic heart disease (human)
** P50HL-18323-04 0011 SCOR hypertension center - Endocrine profiling on a selected normal population (human)
** P50HL-18323-04 0012 SCOR hypertension center - Renin as a risk factor (human)
** P50HL-18323-04 0035 SCOR hypertension center - Control of high blood pressure at the work site
R01HL-18454-03 Maximal exercise testing in hyperlipidemic children
R01HL-18456-03 Cardiovascular follow-up of hypertensive adolescents
R01HL-18589-03 Psychosocial factors and outcome in coronary disease (human)
R01HL-18632-02 Epidemiologic study of chronic lung disease
R01HL-18769-04 Studies in survivors of lethal arrhythmias (human)
** R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-18793-03 Clinical-pathologic studies of sudden cardiac death (human)
R01HL-18794-04 Prospective studies of conduction disease (human)
** R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
M R01HL-18805-04 Sudden cardiac death and the onset of myocardial infarction
R01HL-18805-04 0001 Sudden cardiac death and the onset of myocardial infarction - Predictive value of maximum exercise stress testing (human)
** R01HL-18805-04 0003 Sudden cardiac death and the onset of myocardial infarction - Prediction from clinical and laboratory assessments (human)
** R01HL-18805-04 0004 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Clinical follow-up and therapy (human)
R01HL-18808-04 0001 Prediction and prevention of sudden cardiac death - Prognostic significance of premature ventricular contractions (human)
P50HL-19157-02 0008 Studies in cystic fibrosis and bronchiolitis - Serum proteins in cystic fibrosis (human)
P50HL-19157-02 0011 Studies in cystic fibrosis and bronchiolitis - Pathogenesis of bronchiolitis (children)
** P50HL-19170-02 0001 Harvard pulmonary SCOR--Chronic diseases of the airways - Natural history, reversibility of pulmonary abnormalities in smokers (human)
M P50HL-19171-02 Pulmonary SCOR--Lung injury by childhood infections
** P50HL-19171-02 0001 Pulmonary SCOR--Lung injury by childhood infections - Longitudinal study--Respiratory infections and lung growth in normal children
** P50HL-19171-02 0003 Pulmonary SCOR--Lung injury by childhood infections - Natural history, host defense defects--Children with chronic pulmonary disease
** P50HL-19171-02 0004 Pulmonary SCOR--Lung injury by childhood infections - Long-term effects of respiratory infections in early childhood
P50HL-19171-02 0005 Pulmonary SCOR--Lung injury by childhood infections - Chronic respiratory disease of children in North Carolina
P50HL-19185-02 0009 Pulmonary SCOR--Neonatal respiratory distress syndromes - Nasal continuous positive airway pressure in hyaline membrane disease (human)
** P50HL-19185-02 0011 Pulmonary SCOR--Neonatal respiratory distress syndromes - Complications and sequelae of neonatal respiratory distress (human)
** P50HL-19187-02 0007 Pediatric pulmonary SCOR--Hyaline membrane disease - Follow-up study--Infants with hyaline membrane disease (human)
R01HL-19567-03 Impact of emotion on coronary arteries (human)
P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic
P01HL-19717-02 0043 Response of the lung to injury - Asbestosis as a model of usual interstitial pneumonia (human)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-19859-03 Epidemiological studies, precursors of hypertension (human)
** R01HL-19864-03 0001 Blood pressure of children and young adults - Follow up of students from Dormont, Pennsylvania
R01HL-19869-03 Antecedents of adolescent hypertension (human)
R01HL-19898-03 Desterrioxamine therapy in thalassemia (dogs, rats, children)
R01HL-19922-03 Childhood determinants of blood pressure

(contd)

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**Oriented significantly to above subject.

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R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
R01HL-19946-03 Reduction of iron overload in thalassemia (children, rabbits, dogs, monkeys)
R01HL-19956-03 High blood pressure in the young (human)
R01HL-19961-03 Management of hemosiderosis in thalassemia (children, adults)
R01HL-19962-03 High blood pressure in young people in Tecumseh
R01HL-20037-02 Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle)
R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)
** R01HL-20381-03 Long-term study of diabetic vascular disease (human)
R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
R01HL-20428-03 The juvenile diabetic heart (human)
R01HL-20455-03 Role of systemic hypertension on diabetic retinopathy (human)
R01HL-20508-03 Diabetes, hyperglycemia and cardiovascular disease (human)
** R01HL-20522-03 Peripheral arterial disease in the diabetic (human)
** R01HL-20535-02 Cardiovascular disease and evolving diabetes mellitus (human)
R01HL-20539-03 Blood glucose, hemoglobin A1c, and diabetic vascular disease (human)
** R01HL-20637-02 Recovery after heart surgery--Bio-behavioral factors (human)
R01HL-20807-02 Detection of familial hypercholesterolemia (human)
R01HL-20829-02 Fluid mechanics of heart valve prostheses (dogs, human)
** R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
R01HL-20910-02 The alternative diet for coronary disease prevention (human)
P60HL-20985-01 0002 Northern California sickle cell center - Immunization with polyvalent pneumococcal polysaccharide vaccine (human)
P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
P50HL-21006-02 0002 Specialized center of research in arteriosclerosis - Turnover and metabolism of cholesterol in man
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
** R01HL-21293-02 Randomized study of coronary bypass surgery (human)
R01HL-21352-02 Community studies of obstructive lung disease (human)
R01HL-21427-02 Behavioral changes in post infarction patients
R01HL-21572-01 Natural history of the postphlebitic syndrome
R01HL-21829-01 Etiology of obstructive airway disease in children (also monkeys)
R18HL-21906-01 Stanford five city multifactor risk reduction study
R01HL-21971-01 Atherosclerotic disease and risk factors in twins (human)
R01HL-22298-02 Origins of hypertension (human)
R01HL-22976-01 Nonuniform ventilation and diffusing capacity (human)
R01HL-23078-01 Psychosocial stress and sudden coronary death (human)
P60HL-23282-01 0002 Comprehensive hospital/community sickle cell center - Clinical evaluation of alternate pathaway of compliment activation
P60HL-23282-01 0004 Comprehensive hospital/community sickle cell center - Bacterial, viral and mycoplasmal infections and sickle cell disease complications
R01HL-23970-01 Mechanisms and control of sudden cardiac death (human, dog)
N01HR-32900-09 Pilot study to standardize the measurement of 'closing volume' (human)
N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)
N01HR-32903-11 Pilot study to standardize the measurement of 'closing volume' (human)
N01HV-12158-10 Establishment of a lipid research clinic
N01HV-12160-15 Establishment of a lipid research clinic
N01HV-12440-14 Therapy for hypertension in the general population (human)
N01HV-22917-11 Lipid research clinic (human)
** N01HV-22939-12 Hypertension detection and follow-up program center
N01HV-52901-06 Aspirin-myocardial infarction study
N01HV-52941-04 Center for aspirin-myocardial infarction study (human)
** N01HV-52971-06 Reexamination of Framingham heart study cohort
N01HV-62900-00 Study of breast cancer and reserpine use (human)
N01HV-62955-04 Data collection in clinical pathology and morbid anatomy (men)
N01HV-72915-02 Therapy for hypertension in the general population
N01HV-72984-03 High blood pressure control program (human)
N01HV-72986-02 High blood pressure control program (human)
N01HV-72987-02 High blood pressure control program (human)
N01HV-72989-02 High blood pressure control program (human)
N01HV-72990-00 High blood pressure control program (human)

POPULATION STUDIES HUMAN, MORBIDITY

R01HL-03341-22 Epidemiology of atherosclerosis in Evans Co Georgia
P01HL-11310-12 0068 Mechanisms of cardiovascular disease - Pharmacological intervention and myocarcial oxygen consuption (human, dogs)
** P01HL-11310-12 0069 Mechanisms of cardiovascular disease - Factors affecting mortality and morbidity after heart surgery (human)
** P01HL-11310-12 0070 Mechanisms of cardiovascular disease - Factors affecting long-term mortality and morbidity after heart surgery (human)
P01HL-12738-10 0117 Physiologic pharmacology and its clinical applications - Ventricular arrhythmias in ischemic heart disease (human)
P60HL-15162-07 0007 Comprehensive sickle cell center - Core program--Demographic studies (human)
P60HL-15996-06 0003 Cincinnati comprehensive sickle cell center - Prophylactic penicillin in treatment of sickle cell anemia (human)
P60HL-16005-05 0021 Comprehensive sickle cell center - Management of pregnancy in sickle cell anemia (human)
P50HL-18323-04 0035 SCOR hypertension center - Control of high blood pressure at the work site
R01HL-18632-02 Epidemiologic study of chronic lung disease
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-20508-03 Diabetes, hyperglycemia and cardiovascular disease (human)
R18HL-21906-01 Stanford five city multifactor risk reduction study
R01HL-22255-01 The etiology/prevalence of peripheral arterial disease (human)
N01HV-22931-14 Therapy for hypertension in general population
N01HV-22937-07 Therapy for hypertension in general population
N01HV-22938-11 Therapy for hypertension in general population
N01HV-72984-03 High blood pressure control program (human)
N01HV-72986-02 High blood pressure control program (human)
N01HV-72987-02 High blood pressure control program (human)
N01HV-72989-02 High blood pressure control program (human)
N01HV-72990-00 High blood pressure control program (human)

POPULATION STUDIES HUMAN, MORTALITY

SEE ALSO CHILDREN, INFANT AND CHILD MORTALITY
R01HL-03341-22 Epidemiology of atherosclerosis in Evans Co Georgia
** R01HL-04697-17 International heart disease epidemiology (human)
R01HL-08888-12 Cooperative study of drugs and coronary heart disease (men)
R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
P01HL-11310-12 0067 Mechanisms of cardiovascular disease - Cardiac performance with measured homodynamic variables (human)
P01HL-11310-12 0068 Mechanisms of cardiovascular disease - Pharmacological intervention and myocarcial oxygen consuption (human, dogs)
** P01HL-11310-12 0069 Mechanisms of cardiovascular disease - Factors affecting mortality and morbidity after heart surgery (human)
** P01HL-11310-12 0070 Mechanisms of cardiovascular disease - Factors affecting long-term mortality and morbidity after heart surgery (human)
P01HL-11310-12 0082 Mechanisms of cardiovascular disease - Myocardial function in adult congenital heart disease (human)
R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)
R01HL-13974-07 Ventricular premature beats and sudden coronary death (human)
R01HL-14131-18 Abnormal hemoglobin syndromes (human)
** R01HL-15790-06 Follow-up study of acute coronary heart attacks (human)
R01HL-17580-04 The impact of stress on coronary heart disease (men)
P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
P50HL-17667-04 0019 Study of ischemic heart disease - Assessment of long-term results of coronary artery bypass grafting (human)
P50HL-18323-04 0035 SCOR hypertension center - Control of high blood pressure at the work site
R01HL-18632-02 Epidemiologic study of chronic lung disease
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-18800-04 Prospective study of resuscitated sudden death victims (human)
R01HL-18805-04 0003 Sudden cardiac death and the onset of myocardial infarction - Prediction from clinical and laboratory assessments (human)
R01HL-18808-04 0001 Prediction and prevention of sudden cardiac death - Prognostic significance of premature ventricular contractions (human)
R01HL-19073-02 Heart disease and drinking water at home
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-20508-03 Diabetes, hyperglycemia and cardiovascular disease (human)
** R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
R01HL-21088-02 Genetic patterns in deaths from MI and stroke in Utah
R18HL-21906-01 Stanford five city multifactor risk reduction study
R01HL-21971-01 Atherosclerotic disease and risk factors in twins (human)
R01HL-22255-01 The etiology/prevalence of peripheral arterial disease (human)
** R01HL-22982-01 Multicenter postcoronary risk stratification program (human)
N01HV-12434-11 Therapy for hypertension in the general population
N01HV-12436-15 Hypertension therapy in the general population (human)
N01HV-12440-14 Therapy for hypertension in the general population (human)
N01HV-12442-14 Therapy for hypertension in the general population (human)
N01HV-22931-14 Therapy for hypertension in general population
N01HV-22937-07 Therapy for hypertension in general population
N01HV-22938-11 Therapy for hypertension in general population
N01HV-22945-11 Cooperative hypertension detection and follow-up study (human)
N01HV-52901-06 Aspirin-myocardial infarction study
N01HV-52941-04 Center for aspirin-myocardial infarction study (human)
N01HV-53010-03 NAS-NRC twin registry
N01HV-62955-04 Data collection in clinical pathology and morbid anatomy (men)
N01HV-72984-03 High blood pressure control program (human)
N01HV-72986-02 High blood pressure control program (human)
N01HV-72987-02 High blood pressure control program (human)
N01HV-72989-02 High blood pressure control program (human)
N01HV-72990-00 High blood pressure control program (human)
N01HV-82915-01 Therapy for hypertension in the general population (human)

POPULATION SURVEYS

P60HL-17269-04 0043 National heart and blood vessel research and demonstration center - Dietary modification--Effect on cardiovascular risk parameters (human)
R23HL-22947-01 Experimental systems to improve youth behavior (smoking prevention)

POPULATION SURVEYS, HEALTH SURVEYS

** R01HL-03341-22 Epidemiology of atherosclerosis in Evans Co Georgia
R01HL-03429-18 Central nervous system and coronary heart disease (human)
R01HL-13974-07 Ventricular premature beats and sudden coronary death (human)
P50HL-14136-07 0009 Pulmonary SCOR--Airways obstructive diseases - Tuscon epidemiological study of airways obstructive disease (human)
P50HL-14136-07 0016 Pulmonary SCOR--Airways obstructive diseases - Environmental factors in airways obstructive diseases (human)
P50HL-14153-07 0010 Johns Hopkins Lung Center--Chronic diseases of airways - Risk factors for airways obstruction in a rural community (human)
P50HL-14230-07 0088 A/S SCOR--Lipids, atherosclerosis and thrombosis - Coronary risk factors in school children--The Muscatine study
P01HL-14388-07 9004 Regulation of the circulation in pathological states - Core biostatistics unit
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
P60HL-15168-07 0003 Comprehensive sickle cell disease center - Sickle cell education and training program

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-15614-04 Heredity and oxygen-Effects on health of heart-lungs (South America)
P50HL-18318-03 0012 Pathogenesis and complications of hypertension - Behavioral factors in hypertension (human)
** P50HL-19171-02 0005 Pulmonary SCOR-Lung injury by childhood infections - Chronic respiratory disease of children in North Carolina
** R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-19864-03 0001 Blood pressure of children and young adults - Follow up of students from Dormont, Pennsylvania
** R18HL-21906-01 Stanford five city multifactor risk reduction study
R01HL-22212-01 Alameda county high blood pressure control program
R01HL-22380-01 Detroit hypertension control program
N01HR-72974-01 Self-management systems for asthmatic children
N01HV-12157-14 Lipid research clinic (human)
N01HV-12440-14 Therapy for hypertension in the general population (human)
** N01HV-52971-06 Reexamination of Framingham heart study cohort

PORPHYRIA
SEE METABOLIC DISORDERS (INBORN), PORPHYRIA

PORPHYRIA, PROTOPORPHYRIA
SEE METABOLIC DISORDERS INBORN, PORPHYRIA, PROTOPORPHYRIA

PORPHYRINS
SEE ALSO HEME
SEE ALSO METABOLIC DISORDERS (INBORN), PORPHYRIA
SEE ALSO VITAMIN B12
R01HL-13412-17 Synthetic oxygen carriers
R01HL-14508-10 Structure and function of respiratory hemoproteins
R01HL-14799-07 Cardiac heterotransplantation--Immunologic modification (mice, rat)
R01HL-15104-07 A mechanism for oxidative phosphorylation
R01HL-15627-06 X-ray and chemical studies of metalloporphyrins
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
R01HL-16087-05 Structural and dynamic study of model heme complexes (yeast)
R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
R01HL-16860-05 Mossbauer studies of respiratory hemoproteins
R01HL-17794-03 Chelating agents as blood substitutes
R01HL-21461-01 Heme group protein interactions in hemoproteins
R01HL-22252-01 Synthesis of labeled hemes for protein NMR studies

PORPHYRINS, METALLOPORPHYRINS
** R01HL-13157-09 Molecular oxygen carriers--Synthesis, structure, bonding
** R01HL-13651-07 X-ray photoelectron spectroscopy of heme compounds
R01HL-14508-10 Structure and function of respiratory hemoproteins
** R01HL-15627-06 X-ray and chemical studies of metalloporphyrins
P01HL-16833-04 0015 Hemoglobin and red cell system in hemoglobinopathies - Stereochemistry of hemoglobins from magnetic circular dichroism (human)
R01HL-21461-01 Heme group protein interactions in hemoproteins
R01HL-22252-01 Synthesis of labeled hemes for protein NMR studies

PORPHYRINS STRUCTURE
R01HL-13651-07 X-ray photoelectron spectroscopy of heme compounds

PORPHYROPROTEINS, COBOGLOBINS
R01HL-13531-06 Coboglobins--Cobalt substituted myo- and hemoglobins

PORPHYROPROTEINS, METALLOPORPHYROPROTEINS
SEE ALSO HEMOPROTEINS
SEE ALSO PORPHYROPROTEINS, COBOGLOBINS
** R01HL-16087-05 Structural and dynamic study of model heme complexes (yeast)
R01HL-18226-04 Mechanism of oxygen supply to tissue (human, animals)

PORTACAVAL SHUNT
SEE LIVER CIRCULATION, VENOUS BYPASS OF LIVER

PORTAL HYPERTENSION
SEE LIVER CIRCULATORY DISORDERS, PORTAL HYPERTENSION

PORTAL SHUNTS
SEE LIVER CIRCULATION, VENOUS BYPASS OF LIVER

PORTAL VEIN
SEE LIVER CIRCULATION, PORTAL VEIN

PORTOSYSTEMIC SHUNTS
SEE LIVER CIRCULATION, VENOUS BYPASS OF LIVER

POSITIVE PRESSURE BREATHING
SEE RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, POSITIVE PRESSURE BREATHING

POSITRON AXIAL TOMOGRAPHY
SEE RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING, POSITRON AXIAL TOMOGRAPHY*

POSITRON CAMERAS
SEE RADIOASSAY, SCINTILLATION CAMERAS, POSITRON*

POSITRON EMISSION TRANSAXIAL TOMOGRAPHY
SEE RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING, POSITRON AXIAL TOMOGRAPHY*

POSITRON SCANNING
SEE RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING, POSITRON*

POSTEMBRYONIC ANIMAL LIFE STAGES
SEE AGE (ANIMAL), IMMATURE

POSTGRADUATE EDUCATION
SEE EDUCATION, POSTGRADUATE

POST-HOSPITALIZATION CARE
SEE HEALTH CARE SERVICES, PATIENT CARE, POST-HOSPITALIZATION CARE

POST-MORTEM
SEE DEATH, POST-MORTEM

POSTNATAL
SEE CHILDREN, INFANT NEWBORN (BIRTH TO 4-6 WKS)

POSTNATAL CARE
SEE HEALTH CARE SERVICES, MATERNAL AND INFANT CARE

POSTOPERATIVE
SEE SURGERY, POSTOPERATIVE

POSTOPERATIVE COMPLICATIONS
SEE DISEASES, COMPLICATIONS, POSTOPERATIVE

POSTPERICARDIOTOMY SYNDROME
SEE DISEASES, COMPLICATIONS, POSTPERICARDIOTOMY SYNDROME

POSTURAL HYPOTENSION
SEE CARDIOVASCULAR DISORDERS, HYPOTENSION POSTURAL

POSTURE
SEE SKELETAL MOVEMENT, POSTURE

POTASSIUM
SEE ALSO BODY FLUID BALANCE, IONIC, HYPERKALEMIA
SEE ALSO BODY FLUID BALANCE, IONIC, HYPOKALEMIA
SEE ALSO RADIOISOTOPES, POTASSIUM
R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
R01HL-03303-21 Factors regulating electrolyte excretion by the kidney (human, dogs)
R01HL-05883-18 0003 Reflex control of resistance and capacitance vessels - Cardiac glycosides and sympathetic nerve terminals in vascular smooth muscle
R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
P01HL-06285-18 0194 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--RNA synthesis (rats, toads)
P01HL-06285-18 0195 Cardiovascular-respiratory physiology and biochemistry - Thyroid thermogenesis and sodium transport (rats)
P01HL-06285-18 0197 Cardiovascular-respiratory physiology and biochemistry - Microperfusion and micropuncture of renal tubules (hamsters, desert rats)
P01HL-06312-17 0051 Surgical cardiology - Diuretic therapy on myocardial electrolyte composition and water content (human)
P01HL-07896-15 0049 Environmental biomedical research program - Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
P01HL-08682-15 0037 Regulation of the cardiovascular system - Central nervous regulation of cardiopulmonary mechanisms (cats)
R01HL-09364-14 Ion transport by heart mitochondria (cattle, rat, rabbit)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
R01HL-10612-13 0021 Humoral factors in heart failure and hypertension - The control of aldosterone secretion (dogs)
P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
P01HL-11351-12 0018 Cellular and molecular mechanisms of myocardial function - Quantitative localization of electrolytes in cardiac tissue
P01HL-11678-11 0040 Cardiovascular dynamics and their control - Control of plasma potassium concentration (dogs)
P01HL-11678-11 0046 Cardiovascular dynamics and their control - Regulation of aldosterone secretion and related factors (dogs)
P01HL-11678-11 0063 Cardiovascular dynamics and their control - Renin angiotensin system-Control of renal hemodynamics, electrolyte excretion
** P01HL-12157-11 0033 Functions and mechanisms of cell membrane ion transport - Immunology aspects of active Na-K transport in sheep red cell (also human, mice)
P01HL-12157-11 0060 Functions and mechanisms of cell membrane ion transport - Ion transport and electrical properties of giant-celled alga
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
R01HL-13193-09 Pathophysiology of post-traumatic and shock states (rodents, dogs)
R01HL-13237-09 Erythrocytes during early development (human, animals)
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
R01HL-13349-06 Analysis of activation process in heart muscle (guinea pigs, rabbits, human)
R01HL-13841-16 Respiration during altitude acclimatization (goats, dogs, rats, rabbits)
R01HL-14020-06 Characterization of myosin from blood platelets (rabbit)
** P01HL-14388-07 0151 Regulation of the circulation in pathological states - Catecholamine release in potassium ion-free contractures in the caudal artery
** P01HL-14388-07 0152 Regulation of the circulation in pathological states - Ion flux alterations in caudal artery in SHR
P01HL-14388-07 0154 Regulation of the circulation in pathological states - Energetics of smooth muscle contraction (rats)
P01HL-14388-07 0190 Regulation of the circulation in pathological states - Mechanisms of the renal actions of aldosterone (rats)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
R01HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
R01HL-15813-05 Cardiac anoxia--Protective effect of carbohydrate (dogs)
R01HL-16746-04 Design of ion-selective molecules
R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
P01HL-16833-04 0008 Hemoglobin and red cell system in hemoglobinopathies - Membrane associated phenomena in SS disease
R01HL-17451-05 Digitalis effects on cardiac automaticity mechanisms
P50HL-17646-04 0014 Study of ischemic heart disease - Progression of ischemic injury in conscious dogs (also rabbits)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
R01HL-17879-04 Molecular structure of the ouabain sensitive ATPase (dogs)
R01HL-17932-04 Blood flow regulation in muscle (cats)
R01HL-18053-03 Intracellular ionic activities in heart muscle (frogs)
R01HL-18185-04 Cardiac glycosides and diuretics--Role of Na0 pump (dogs)
P50HL-18323-04 0011 SCOR hypertension center - Endocrine profiling on a selected normal population (human)
R01HL-18351-03 Brain metabolism, acid-base balance, and respiration
R01HL-18537-04 Regional blood flow after acute myocardial injury (dogs)
P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
** R01HL-18798-04 0001 Nervous and ionic factors in sudden cardiac death - Potassium loss during myocardial ischemia (rabbits)
R01HL-18798-04 0002 Nervous and ionic factors in sudden cardiac death - Electron microprobe, ultrastructure analysis of ischemic myocardium (dog, rabbit)
R01HL-18882-02 Hormones in hypertension (human)
** R01HL-18891-02 Electrolyte intake and blood pressure in hypertension (human)
R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
R01HL-19398-03 Regional conduction abnormalities and arrhythmias (dogs)
R01HL-19467-03 Regulation of blood pressure (rats, dogs)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-19674-02 Electrolyte permeability of single capillaries (frogs)
R01HL-20558-02 Cardiac electrophysiology--Effects of ions and drugs
P01HL-20592-02 0003 Cell biology of cardiac and skeletal muscle - Cellular magnesium and anion activities in ion-specific microelectrodes (frogs)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-20592-02 0013 Cell biology of cardiac and skeletal muscle - Sarcoplasmic reticulum in skinned muscle cells (frogs)
R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-20910-02 The alternative diet for coronary disease prevention (human)
R01HL-21030-01 Calcium regulation and hypertension (rats)
R01HL-21145-02 Response of atria to hyperosmolality--Mechanisms (rabbits)
** R01HL-21187-01 Potassium, norepinephrine, and coronary arterial tone (dogs)
R23HL-21196-02 Oigitalis induced arrhythmia and NAO KO-atpase activity (dogs)
R01HL-21371-02 Energy loss microanalysis of myocardial cations
R23HL-21434-02 Intrinsic control of coronary blood flow by chemicals (guinea pigs)
** R01HL-21435-02 Control, cardiovascular and renal effects of potassium (dogs)
R01HL-21493-02 Contractility in cardiac failure (hamsters)
R01HL-21523-01 Hemodynamic effects of dietary sodium in man
R01HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
** R01HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
R01HL-22088-02 Metabolic basis for diabetic microangiopathy (cattle)
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
R23HL-22975-01 Oynamics of autoregulation of muscle blood flow (dogs)
R01HL-23392-01 Membrane binding and transport of calcium and potassium ionophores

POTASSIUM CHLORIDE
P01HL-14388-07 0178 Regulation of the circulation in pathological states - Structural and functional consequences of denervation (rats)
P50HL-17667-04 0040 Study of ischemic heart disease - Core biochemistry--Cardiac metabolism (human)

POTASSIUM LOSING KIDNEY DISEASE (BARTTER'S SYNDROME)
SEE METABOLIC OISOROERS INBORN, BARTTER'S SYNOROME

POTASSIUM PUMP
SEE BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS, POTASSIUM PUMP

POTASSIUM RADIOISOTOPES (38,40,42,43)
SEE RAOIOISOTOPES, POTASSIUM

POTENTIALS
SEE ELECTROPOTENTIALS

POTENTIATION
SEE ORUGS ANO PHYSICAL ANO/OR CHEMICAL AGENTS INTERACTION
SEE ORUGS INTERACTION
SEE PHYSICAL ANO/OR CHEMICAL AGENTS INTERACTION (BIOLOGICAL ANO ECOLOGICAL)

POTENTIOMETRY
SEE ELECTRICAL MEASUREMENTS, POTENTIOMETRY*

POWDERS (DOSAGE FORM)
SEE OOSAGE FORMS

PPLO
SEE BACTERIA, MYCOPLASMATALES, MYCOPLASMA*
SEE RESPIRATORY OISOROERS, PNEUMONIA MYCOPLASMAL (PPLO)

PRACTOLOL
SEE PHENYLAMIOES, PRACTOLOL

PRAUSNITZ-KUSTNER REACTION
SEE HYPERSENSITIVITY, SKIN SENSITIZING ANTIBOOY

PRE-BETA LIPOPROTEINS
SEE LIPOPROTEINS BLOOO, VLOL

PREBIOTIC EVOLUTION
SEE BIOLOGY, SYSTEMATIC, EVOLUTION BIOCHEMICAL

PRECIPITATION
SEE PHYSICAL PROPERTIES, PRECIPITATION

PREDIABETIC STATE
SEE CARBOHYORATES METABOLISM OISOROERS, OIABETES, PREOIABETIC STATE

PREDICTION OF BEHAVIOR
SEE PSYCHOLOGY, BEHAVIOR PREOICTION

PREDICTION OF DISEASE OUTCOME
SEE OISEASES, PROGNOSIS

PREDISPOSITION TO DISEASE
SEE OISEASE PRONENESS-RISK

PREDNISONE
SEE AORENAL CORTEX HORMONES ANALOGS, PREONISONE

PREGANGLIONIC FIBERS
SEE NERVOUS SYSTEM, GANGLIA, PREGANGLIONIC FIBERS

PREGNANCY
SEE ALSO CONGENITAL ABNORMALITIES
SEE ALSO EMBRYOLOGY
SEE ALSO EMBRYOLOGY (HUMAN) ANO OEVELOPMENT STUOY SECTION
SEE ALSO FAMILY PLANNING
SEE ALSO FERTILITY
SEE ALSO HEALTH CARE SERVICES, MATERNAL ANO INFANT CARE
SEE ALSO NUTRITION, MATERNAL-FETAL NUTRITION
** R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
P01HL-06835-17 0034 Cardiovascular disease - Studies of phospholipase A2 in serum (rats, dogs)
R01HL-10612-13 0020 Humoral factors in heart failure and hypertension - The control of renin release in the dog
** R01HL-12557-09 Effects of steroids and pregnancy on arteries and veins (guinea pigs)
R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)
** P01HL-14985-07 0015 Adaptation to hypoxia - Pregnancy at high altitude (human, animals)
R01HL-16918-05 Role of steroids in hypertension (human)
R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)
R01HL-19859-03 Epidemiological studies, precursors of hypertension (human)
R01HL-20922-02 Control of human fetal hemoglobin synthesis
R01HL-20939-02 Regulation of fetal hemoglobin in humans
R01HL-21628-02 Biosynthesis of lung surfactant lipid (rabbit)
R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase
N01HV-12157-14 Lipid research clinic (human)

PREGNANCY, AMNIOCENTESIS
P50HL-19185-02 0006 Pulmonary SCOR--Neonatal respiratory distress syndromes - Evaluation of risk factors in neonatal respiratory distress (human, sheep)
P50HL-19187-02 0002 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Alterations in surface active material (monkeys)
R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)

PREGNANCY, ANTEPARTUM DIAGNOSIS
SEE ALSO PREGNANCY, AMNIOCENTESIS
P01HL-06285-18 0125 Cardiovascular-respiratory physiology and biochemistry - Myocardial function in the fetal and neonatal lamb
P01HL-06285-18 0128 Cardiovascular-respiratory physiology and biochemistry - Pulmonary circulation in fetal lambs in utero
P01HL-06285-18 0129 Cardiovascular-respiratory physiology and biochemistry - Pulmonary microcirculation in the fetus and neonate (lambs)
P01HL-06285-18 0130 Cardiovascular-respiratory physiology and biochemistry - Ouctus arteriosus--Morphological development (human, lambs)
P01HL-06285-18 0131 Cardiovascular-respiratory physiology and biochemistry - Fetal heart development and ventricular outflow obstruction (lambs)
P01HL-06285-18 0132 Cardiovascular-respiratory physiology and biochemistry - Umbilical-placental circulatory responses (lambs)
P01HL-06285-18 0133 Cardiovascular-respiratory physiology and biochemistry - Oecreased uterine blood flow and fetal development (lambs)
P01HL-06285-18 0134 Cardiovascular-respiratory physiology and biochemistry - Placental transfer in growth retarded fetuses (lambs)
P01HL-06285-18 0135 Cardiovascular-respiratory physiology and biochemistry - Beta-adrenergic agents and fetal cardiovascular dynamics (lambs)
P01HL-06285-18 0136 Cardiovascular-respiratory physiology and biochemistry - Fetal microcirculation in utero (rabbits, lambs)
** P50HL-14218-07 0014 Pulmonary SCOR--Newborn lung center - Longitudinal study of ROS--Monitoring fetal breathing movements (human)
P01HL-14388-07 0188 Regulation of the circulation in pathological states - Renin-angiotensin system in the sheep fetus
** R01HL-19646-03 An immunologic study of hemoglobin variation in man
R01HL-20070-02 Alpha-1-antitrypsin deficiency (human, hamsters)
** P60HL-20985-01 0010 Northern California sickle cell center - Prenatal diagnosis of sickle cell anemia
R01HL-21756-11 Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters)
** P60HL-23282-01 0001 Comprehensive hospital/community sickle cell center - Fetoscopy for intrauterine diagnosis of hemoglobinopathy (human, monkeys)
N01HR-72922-01 Cystic fribrosis factor identication and quantification (human)

PREGNANCY, BIRTH
SEE ALSO AGE (ANIMAL), INFANTS, BIRTH WEIGHT
SEE ALSO PREGNANCY OISOROERS, LABOR COMPLICATIONS
P50HL-14214-07 0029 Newborn lung center for hyaline membrane disease - The diving reflex--Perinatal asphyxia, pulmonary ischemia and HMO (sheep)
P50HL-14218-07 0012 Pulmonary SCOR--Newborn lung center - Longitudinal study of ROS--On-line fetal and neonatal monitoring (human)
** P50HL-14218-07 0013 Pulmonary SCOR--Newborn lung center - Longitudinal study of RDS--Monitoring fetal P02 and PC02 during labor (human)

PREGNANCY, EMBRYO-FETUS
SEE ALSO CAROIOVASCULAR SYSTEM, OUCTUS ARTERIOSUS EMBRYONIC
SEE ALSO ENZYMES, FETAL ENZYMES
SEE ALSO HEART, FORAMEN OVALE EMBRYONIC
** R01HL-01755-25 Fetal and neonatal cardiovascular function (sheep)
R01HL-01803-23 0018 Arteriosclerosis, glomerulonephritis, rheumatic fever - Fetal immunization in pathogenesis of glomerulonephritis in adult (rabbit)
R01HL-01803-23 0019 Arteriosclerosis, glomerulonephritis, rheumatic fever - Pathogenesis of rheumatic heart disease (rabbit)
R01HL-03357-21 Humoral control of blood cell formation and release (rats, mice)
** P01HL-06285-18 0125 Cardiovascular-respiratory physiology and biochemistry - Myocardial function in the fetal and neonatal lamb
** P01HL-06285-18 0126 Cardiovascular-respiratory physiology and biochemistry - Ventricular output, foramen ovale and ductus arteriosus flows (lambs)
** P01HL-06285-18 0127 Cardiovascular-respiratory physiology and biochemistry - Experimental congenital cardiac lesions in fetal lambs
** P01HL-06285-18 0128 Cardiovascular-respiratory physiology and biochemistry - Pulmonary circulation in fetal lambs in utero
** P01HL-06285-18 0129 Cardiovascular-respiratory physiology and biochemistry - Pulmonary microcirculation in the fetus and neonate (lambs)
** P01HL-06285-18 0130 Cardiovascular-respiratory physiology and biochemistry - Ouctus arteriosus--Morphological development (human, lambs)
** P01HL-06285-18 0131 Cardiovascular-respiratory physiology and biochemistry - Fetal heart development and ventricular outflow obstruction (lambs)
** P01HL-06285-18 0132 Cardiovascular-respiratory physiology and biochemistry - Umbilical-placental circulatory responses (lambs)
** P01HL-06285-18 0136 Cardiovascular-respiratory physiology and biochemistry - Fetal microcirculation in utero (rabbits, lambs)
** R01HL-10834-09 Fetal and neonatal pulmonary circulation (goats)
P01HL-11310-12 0097 Mechanisms of cardiovascular disease - Structural-functional relationships of neuronal differential alloantigens (mice)
P01HL-12157-11 0057 Functions and mechanisms of cell membrane ion transport - Electrophysiological investigations of synthetic strands of heart muscles (rats)
** P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
R01HL-13634-08 Renal hypertension in pregnancy (sheep)
R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)
P50HL-14141-05 0002 SCOR for atherosclerosis in childhood - Intrauterine environment of proband group (human)
P50HL-14214-07 0015 Newborn lung center for hyaline membrane disease - Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal)
P50HL-14214-07 0020 Newborn lung center for hyaline membrane disease - Epidermal growth factor effect--Lung differentiation, maturation (human, rabbit)
P50HL-14214-07 0021 Newborn lung center for hyaline membrane disease - Oevelopment of surfactant system--Surfactant production and release (rat, rabbit)
P50HL-14214-07 0022 Newborn lung center for hyaline membrane disease - Functional integrity of surfactant system--Hyaline membrane disease (lamb, rat)
P50HL-14214-07 0029 Newborn lung center for hyaline membrane disease - The diving reflex--Perinatal asphyxia, pulmonary ischemia and HMO (sheep)
P50HL-14214-07 0035 Newborn lung center for hyaline membrane disease - Core--Animal care facility
P50HL-14218-07 0012 Pulmonary SCOR--Newborn lung center - Longitudinal study of ROS--On-line fetal and neonatal monitoring (human)
P50HL-14218-07 0013 Pulmonary SCOR--Newborn lung center - Longitudinal study of ROS--Monitoring fetal P02 and PC02 during labor (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-14218-07 0014 Pulmonary SCOR-Newborn lung center - Longitudinal study of ROS--Monitoring fetal breathing movements (human)
** P01HL-14388-07 0188 Regulation of the circulation in pathological states - Renin-angiotensin system in the sheep fetus
R01HL-15341-06 Lung hormonal and chromosomal regulation (rats, rabbits)
P01HL-16137-05 0001 Alveolar biology - Chemical characterization of surfactant system--Lipid and lipid protein fractions
P01HL-16137-05 0008 Alveolar biology - Macromolecular events in pulmonary cells in toxic environments (animals)
P01HL-16137-05 0013 Alveolar biology - Development and pathology of surfactant--Formation of alveolar (rabbits, sheep)
R01HL-16445-05 Regulation of plasma protein biosynthesis (rats, rabbits)
P01HL-17419-04 0003 Studies on mechanisms of hemostasis - Characterization of fibrinogen (human)
P50HL-17682-04 0018 Study of ischemic heart disease - Biochemistry of ischemia--Heart cell and organ culture (mice, rats, cattle)
P50HL-17682-04 0023 Study of ischemic heart disease - Core cell and organ culture laboratory (mice)
P01HL-17731-04 0003 Physiological basis of pulmonary disease - Comparative physiology (vertebrates)
** R01HL-18952-03 Metabolism in perfused fetal and newborn rabbit lungs
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
P50HL-19185-02 0001 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sites of synthesis, secretion and structure of surface active material (rat)
P50HL-19185-02 0002 Pulmonary SCOR--Neonatal respiratory distress syndromes - Biochemistry, ultrastructure--Pulmonary surface active material (human, animal)
P50HL-19185-02 0004 Pulmonary SCOR--Neonatal respiratory distress syndromes - Fluid and protein transport in fetal and newborn lung (sheep, rabbits)
P50HL-19190-02 0007 Pulmonary SCOR--Pathophysiology, management of IROS - Asphyxia--Cerebral metabolism (dog, rat)
R01HL-19684-03 Histotypic lung culture in circumfusion systems (mice)
** R01HL-19752-03 Phospholipid synthesis by fetal lung in organ culture (rats)
R01HL-20337-02 Thromboembolic diseases (human)
R01HL-20548-02 Innervation of the lung (rats, monkeys)
R01HL-20635-03 Factors in lung development (rat and chick embryo)
R01HL-20899-02 Cellular mechanisms of hemoglobin F regulation (human)
R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)
R01HL-21176-02 Phospholipid exchange proteins in lung tissue (lambs)
R23HL-21368-02 Perinatal cardiac electrophysiology (dogs)
R23HL-21409-02 Perinatal control of the ductus arteriosus (sheep)
R01HL-21628-02 Biosynthesis of lung surfactant lipid (rabbit)
R01HL-22664-01 Regulation of myocardial cell growth (rats, guinea pigs)
** R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)
P60HL-23282-01 0001 Comprehensive hospital/community sickle cell center - Fetoscopy for intrauterine diagnosis of hemoglobinopathy (human, monkeys)
R01HL-23736-04 Sickle cell anemia and hemoglobin synthesis (monkeys)

PREGNANCY, EMBRYO-FETUS, GESTATIONAL AGE

P01HL-06285-18 0125 Cardiovascular-respiratory physiology and biochemistry - Myocardial function in the fetal and neonatal lamb
** P01HL-06285-18 0133 Cardiovascular-respiratory physiology and biochemistry - Decreased uterine blood flow and fetal development (lambs)
P50HL-14214-07 0023 Newborn lung center for hyaline membrane disease - Regulation of fetal lung maturation--Vitamin A (rat, rabbit, sheep, human)
P60HL-15999-05 0019 Miami comprehensive sickle cell center - Fetal-adult hemoglobin switch (mouse, monkey)
P50HL-19185-02 0003 Pulmonary SCOR--Neonatal respiratory distress syndromes - Factors affecting formation and release of pulmonary surfactant in fetal lambs
R01HL-19352-03 Respiratory heat and water loss in neonates
R01HL-20337-02 Thromboembolic diseases (human)
** R01HL-20632-02 An optimal fetal heart monitor (human)
R01HL-20961-02 Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human)
R23HL-21409-02 Perinatal control of the ductus arteriosus (sheep)

PREGNANCY, EMBRYO-FETUS CHEMOTHERAPY

R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
P50HL-19185-02 0005 Pulmonary SCOR--Neonatal respiratory distress syndromes - Role and mechanism of glucocorticoids in fetal lung maturation (human, rabbit)
** N01HR-62948-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62949-05 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62950-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62951-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62952-05 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome

PREGNANCY, EMBRYO-FETUS DRUGS ADVERSE EFFECTS

SEE ALSO CONGENITAL ABNORMALITIES, TERATOGENIC AGENTS
P50HL-14218-07 0006 Pulmonary SCOR--Newborn lung center - Biochemical characteristics of the lung in ROS (human, sheep)
** R23HL-21368-02 Perinatal cardiac electrophysiology (dogs)

PREGNANCY, EMBRYO-FETUS PHARMACOLOGY

SEE ALSO PREGNANCY, EMBRYO-FETUS CHEMOTHERAPY
SEE ALSO PREGNANCY, EMBRYO-FETUS DRUGS ADVERSE EFFECTS
P01HL-10436-13 0015 A multidisciplinary study of congenital heart disease - Fetal and neonatal cardiovascular physiology (sheep)
P50HL-14214-07 0020 Newborn lung center for hyaline membrane disease - Epidermal growth factor effect--Lung differentiation, maturation (human, rabbit)
P50HL-14214-07 0023 Newborn lung center for hyaline membrane disease - Regulation of fetal lung maturation--Vitamin A (rat, rabbit, sheep, human)
P50HL-14214-07 0024 Newborn lung center for hyaline membrane disease - Synthesis and receptors for ACTH in fetal lung (human)
P50HL-14214-07 0026 Newborn lung center for hyaline membrane disease - Hemodynamic studies of HMO--Prostaglandins production and blockers (lambs)
P50HL-19187-02 0002 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Alterations in surface active material (monkeys)
P50HL-19190-02 0007 Pulmonary SCOR--Pathophysiology, management of IROS - Asphyxia--Cerebral metabolism (dog, rat)
P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
R01HL-19752-03 Phospholipid synthesis by fetal lung in organ culture (rats)

PREGNANCY, EMBRYO-FETUS SURGERY

P01HL-10436-13 0015 A multidisciplinary study of congenital heart disease - Fetal and neonatal cardiovascular physiology (sheep)

PREGNANCY, EMBRYO-FETUS TRANSPLANTATION

R01HL-18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)
R01HL-20905-02 Synthesis of fetal hemoglobin in erythroid cells (sheep, human)

PREGNANCY, PERINATAL

SEE ALSO REPRODUCTIVE SYSTEM FEMALE, MAMMARY GLANDS, LACTATION
** N01HB-62908-07 Maternal to infant transmission of hepatitis B (human)
P50HL-14214-07 0023 Newborn lung center for hyaline membrane disease - Regulation of fetal lung maturation--Vitamin A (rat, rabbit, sheep, human)
P50HL-14214-07 0029 Newborn lung center for hyaline membrane disease - The diving reflex--Perinatal asphyxia, pulmonary ischemia and HMO (sheep)
P50HL-14218-07 0012 Pulmonary SCOR--Newborn lung center - Longitudinal study of ROS--On-line fetal and neonatal monitoring (human)
P01HL-14388-07 0196 Regulation of the circulation in pathological states - Altered vascular responsiveness in spontaneous hypertension (rats)
P01HL-14388-07 0197 Regulation of the circulation in pathological states - Altered vascular reactivity in pathogenesis of spontaneous hypertension (rats)
P60HL-16005-05 0021 Comprehensive sickle cell center - Management of pregnancy in sickle cell anemia (human)
P50HL-19185-02 0006 Pulmonary SCOR--Neonatal respiratory distress syndromes - Evaluation of risk factors in neonatal respiratory distress (human, sheep)
** R23HL-21368-02 Perinatal cardiac electrophysiology (dogs)
R01HL-22327-01 Transport of arterial blood gases through skin (swine)

PREGNANCY, PLACENTA

P50HL-14214-07 0020 Newborn lung center for hyaline membrane disease - Epidermal growth factor effect--Lung differentiation, maturation (human, rabbit)
** P50HL-14214-07 0024 Newborn lung center for hyaline membrane disease - Synthesis and receptors for ACTH in fetal lung (human)
P60HL-23282-01 0001 Comprehensive hospital/community sickle cell center - Fetoscopy for intrauterine diagnosis of hemoglobinopathy (human, monkeys)

PREGNANCY, PLACENTAL NEOPLASMS, HYDATIDIFORM MOLE

R01HL-20939-02 Regulation of fetal hemoglobin in humans

PREGNANCY, PRENATAL STRESS

SEE ALSO PREGNANCY, EMBRYO-FETUS DRUGS ADVERSE EFFECTS
R01HL-01755-25 Fetal and neonatal cardiovascular function (sheep)
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
P50HL-14141-05 0001 SCOR for atherosclerosis in childhood - Clinical implications (infants and children)
** P50HL-14141-05 0002 SCOR for atherosclerosis in childhood - Intrauterine environment of proband group (human)
P50HL-14214-07 0026 Newborn lung center for hyaline membrane disease - Hemodynamic studies of HMO--Prostaglandins production and blockers (lambs)
P50HL-14218-07 0006 Pulmonary SCOR-Newborn lung center - Biochemical characteristics of the lung in ROS (human, sheep)
P50HL-14218-07 0012 Pulmonary SCOR--Newborn lung center - Longitudinal study of ROS--On-line fetal and neonatal monitoring (human)
P50HL-19190-02 0007 Pulmonary SCOR--Pathophysiology, management of IRDS - Asphyxia--Cerebral metabolism (dog, rat)
R01HL-19864-03 0003 Blood pressure of children and young adults - Heart rate and blood pressure--Consistency in infancy (human)

PREGNANCY, UMBILICAL CORD

P01HL-06285-18 0132 Cardiovascular-respiratory physiology and biochemistry - Umbilical-placental circulatory responses (lambs)
R01HL-15308-07 Assays for peptides of lipoproteins (human)

PREGNANCY CIRCULATION

R01HL-01755-25 Fetal and neonatal cardiovascular function (sheep)
** P01HL-10436-13 0015 A multidisciplinary study of congenital heart disease - Fetal and neonatal cardiovascular physiology (sheep)
P50HL-14141-05 0002 SCOR for atherosclerosis in childhood - Intrauterine environment of proband group (human)
P60HL-23282-01 0001 Comprehensive hospital/community sickle cell center - Fetoscopy for intrauterine diagnosis of hemoglobinopathy (human, monkeys)

PREGNANCY CIRCULATION, PLACENTAL TRANSFER

SEE ALSO PREGNANCY IMMUNOLOGY
** R01HL-01803-23 0018 Arteriosclerosis, glomerulonephritis, rheumatic fever - Fetal immunization in pathogenesis of glomerulonephritis in adult (rabbit)
R01HL-01803-23 0019 Arteriosclerosis, glomerulonephritis, rheumatic fever - Pathogenesis of rheumatic heart disease (rabbit)
** P01HL-06285-18 0132 Cardiovascular-respiratory physiology and biochemistry - Umbilical-placental circulatory responses (lambs)
** P01HL-06285-18 0134 Cardiovascular-respiratory physiology and biochemistry - Placental transfer in growth retarded fetuses (lambs)
** P01HL-06285-18 0135 Cardiovascular-respiratory physiology and biochemistry - Beta-adrenergic agents and fetal cardiovascular dynamics (lambs)
P01HL-09011-15 0020 A research and resource program in blood - Passive immunization in the prevention of transmission of hepatitis B (human)
P01HL-10342-13 0014 The integrated function of respiration and circulation - Oxygen and carbon monxide transfer (human, dogs, sheep)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Developmental electrophysiology and pharmacology (human, animals)
R01HL-13634-08 Renal hypertension in pregnancy (sheep)
P50HL-14214-07 0026 Newborn lung center for hyaline membrane disease - Hemodynamic studies of HMO--Prostaglandins production and blockers (lambs)
** R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)

PREGNANCY CIRCULATORY DISORDERS

SEE ALSO PREGNANCY TOXEMIAS AND HYPERTENSION
P01HL-06285-18 0132 Cardiovascular-respiratory physiology and biochemistry - Umbilical-placental circulatory responses (lambs)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-06285-18 0133 Cardiovascular-respiratory physiology and biochemistry - Oecreased uterine blood flow and fetal development (lambs)
P01HL-06285-18 0134 Cardiovascular-respiratory physiology and biochemistry - Placental transfer in growth retarded fetuses (lambs)
P01HL-06285-18 0135 Cardiovascular-respiratory physiology and biochemistry - Beta-adrenergic agents and fetal cardiovascular dynamics (lambs)

PREGNANCY COMPLICATIONS CARDIOVASCULAR
SEE PREGNANCY CIRCULATDRY OISDRDERS

PREGNANCY DISORDERS
SEE ALSD CARBOHYDRATES METABDLISM DISDROERS, DIABETES IN PREGNANCY
SEE ALSD PREGNANCY, EMBRYD-FETUS DRUGS ADVERSE EFFECTS
SEE ALSD PREGNANCY TOXEMIAS AND HYPERTENSIDN
P50HL-14141-05 0002 SCDR for atherosclerosis in childhood - Intrauterine environment of proband group (human)
** P60HL-16005-05 0021 Comprehensive sickle cell center - Management of pregnancy in sickle cell anemia (human)

PREGNANCY DISORDERS, EMBRYO-FETAL DISORDERS (GENERAL)
SEE ALSD CDNGENITAL ABNORMALITIES
R01HL-01755-25 Fetal and neonatal cardiovascular function (sheep)
** R01HL-22963-01 Symbolic logic analysis of congenital heart disease (human)

PREGNANCY DISORDERS, EMBRYO-FETAL GROWTH-DEVELOPMENT DISORDERS (SEE ALSO APPROPRIATE SPECIFICS)
P01HL-06285-18 0129 Cardiovascular-respiratory physiology and biochemistry - Pulmonary microcirculation in the fetus and neonate (lambs)
** P01HL-06285-18 D133 Cardiovascular-respiratory physiology and biochemistry - Oecreased uterine blood flow and fetal development (lambs)
** P01HL-D6285-18 0134 Cardiovascular-respiratory physiology and biochemistry - Placental transfer in growth retarded fetuses (lambs)
P01HL-06285-18 0135 Cardiovascular-respiratory physiology and biochemistry - Beta-adrenergic agents and fetal cardiovascular dynamics (lambs)
P01HL-06285-18 0136 Cardiovascular-respiratory physiology and biochemistry - Fetal microcirculation in utero (rabbits, lambs)
** R01HL-22859-01 Effect of carbon monoxide on the developing heart (rats)

PREGNANCY DISORDERS, LABOR COMPLICATIONS
P6DHL-16005-05 0021 Comprehensive sickle cell center - Management of pregnancy in sickle cell anemia (human)

PREGNANCY DISORDERS, PROLONGED PREGNANCY
P5DHL-14214-07 0020 Newborn lung center for hyaline membrane disease - Epidermal growth factor effect--Lung differentiation, maturation (human, rabbit)

PREGNANCY DISORDERS CHEMOTHERAPY
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase

PREGNANCY IMMUNOLOGY
** R01HL-D1803-23 DD18 Arteriosclerosis, glomerulonephritis, rheumatic fever - Fetal immunization in pathogenesis of glomerulonephritis in adult (rabbit)
** RD1HL-D1803-23 0D19 Arteriosclerosis, glomerulonephritis, rheumatic fever - Pathogenesis of rheumatic heart disease (rabbit)
R01HL-01803-23 0021 Arteriosclerosis, glomerulonephritis, rheumatic fever - Induction of IgE antibodies to antigen from tobacco and cigarette smoke (rabbits)
R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)

PREGNANCY LOSS, FETAL DEATH
P6DHL-160D5-05 0021 Comprehensive sickle cell center - Management of pregnancy in sickle cell anemia (human)
R01HL-19430-03 Congenital heart malformations and situs inversus (mice)

PREGNANCY TOXEMIAS AND HYPERTENSION
** R01HL-13634-08 Renal hypertension in pregnancy (sheep)
P50HL-14141-05 0002 SCOR for atherosclerosis in childhood - Intrauterine environment of proband group (human)
P50HL-14159-D8 DDD8 Specialized center of research in hypertension - Renal function and sodium metabolism in hypertension (rats, human, rabbits)
P50HL-14159-D8 DD20 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
P50HL-14159-D8 0D24 Specialized center of research in hypertension - Core resources (clinical, animal models)
P50HL-14218-07 0006 Pulmonary SCDR--Newborn lung center - Biochemical characteristics of the lung in RDS (human, sheep)
R01HL-16603-05 Human and experimental renal diseases (animals)
** R01HL-18845-04 Regulation of renal circulation and salt excretion (rats, dogs)
R01HL-19869-03 Antecedents of adolescent hypertension (human)
R01HL-19956-03 High blood pressure in the young (human)
R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)

PREGNANCY TOXEMIAS AND HYPERTENSION, ECLAMPSIA
R01HL-19858-03 UMMC--Blood pressure precursors and consequences (human)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

PREMATURE INFANT
SEE CHILDREN, INFANT PREMATURE AND LDW BIRTH WEIGHT

PREMATURE INFANT ANIMALS AND LOW BIRTH WEIGHT
SEE AGE (ANIMAL), INFANTS PREMATURE AND LOW BIRTH WEIGHT

PREMATURE VENTRICULAR CONTRACTIONS
SEE HEART OISDRDERS, ARRHYTHMIA, PREMATURE VENTRICULAR CONTRACTIDNS

PRENATAL CARE
SEE HEALTH CARE SERVICES, MATERNAL AND INFANT CARE

PRENATAL INFLUENCE
SEE PREGNANCY, PRENATAL STRESS

PRENATAL STRESS
SEE PREGNANCY, PRENATAL STRESS

PREOPERATIVE
SEE SURGERY, PREDPERATIVE

PRESBYTIS
SEE MAMMALS, PRIMATES, MDNKEYS AND APES (ANTHROPDIOS, NON-HUMAN), DLD WDRLD MDNKEYS (CATARRHINES)*

PRESCHOOL
SEE CHILDREN, PRESCHOOL (1 TO 6 YRS)

PRESERVATION
SEE BLOOD PRESERVATION
SEE CAROIOVASCULAR TISSUE PRESERVATION
SEE HEART PRESERVATIDN
SEE KIONEY PRESERVATION
SEE RESPIRATORY SYSTEM PRESERVATION, LUNG PRESERVATIDN
SEE TISSUE (CELL) CULTURE, CELL CULTURE COLLECTIONS BANKS AND REGISTRIES
SEE TISSUE PRESERVATION

PRESSORECEPTORS
SEE SENSE ORGANS, PRESSDRECEPTORS

PRESSURE, ATMOSPHERIC
SEE ENVIRONMENT, ATMOSPHERIC PRESSURE

PRESSURE, BLOOD
SEE CARDIOVASCULAR FUNCTIDN, BLODD PRESSURE

PRESSURE, HYDROSTATIC
SEE PHYSICAL PROPERTIES, FLUID STATE, HYDROSTATIC PRESSURE

PRESSURE, MECHANICAL
SEE PHYSICAL PROPERTIES, MECHANICAL PRESSURE

PRESSURE GRADIENT TECHNIQUE BLOOD
SEE CARDIDVASCULAR DISOROERS DIAGNDSIS, BLODD PRESSURE GRADIENT TECHNIQUE*

PREVENTION
SEE CARDIDVASCULAR DISDRDERS PREVENTIDN AND CDNTRDL (NDT INCLUDED ELSEWHERE)
SEE HEALTH, DISEASE PREVENTION AND CDNTRDL
SEE TDXICOLDGY, PDISON CONTROL AND PREVENTIDN

PREVENTION, TOXICOLOGY RELATED
SEE TOXICDLDGY, POISDN CDNTRDL AND PREVENTIDN

PREVENTIVE MEDICINE
SEE HEALTH, DISEASE PREVENTION AND CONTROL

PRIMARY ATYPICAL PNEUMONIA
SEE RESPIRATDRY DISDRDERS, PNEUMONIA MYCOPLASMAL (PPLO)

PRIMATE COLONIES
SEE MAMMALS, PRIMATE CDLDNIES

PRIMATES
SEE MAMMALS, PRIMATES*

PRISCOLINE
SEE IMIDAZDLES, TDLAZDLINE

PROACCELERIN
SEE BLDOD COAGULATION, FACTOR V

PROBE TUBE MICROPHONE
SEE RESPIRATORY OISDRDERS DIAGNDSIS, RESPIRATDRY AIRFLDW MEASUREMENTS*

PROBENECID
SEE SULFONAMIDES, PRDBENECID

PROBLEM SOLVING
SEE PSYCHOLDGY, CDGNITION, PRDBLEM SDLVING

PROCAINE AMIDE
SEE PHENYLAMIDES, PROCAINE AMIDE

PROCAINE HYDROCHLORIDE
SEE P-AMINOBENZOATE, PRDCAINE HYDROCHLDRIDE

PROCLORPERAZINE
SEE PHENDTHIAZINES, PRDCLORPERAZINE

PROCOLLAGEN
SEE ALBUMINDIDS, CDLLAGEN, PRDCDLLAGEN

PROCONVERTIN
SEE BLDDD COAGULATIDN, FACTOR VII

PROFIBRINOLYSIN
SEE BLDDD CDAGULATIDN, PLASMINDGEN

PROGESTERONE
SEE ALSD PRDGESTINS
R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-13567-06 Ion transport across cell membranes (human)
R01HL-13841-16 Respiration during altitude acclimatization (goats, dogs, rats, rabbits)
P01HL-14388-07 0232 Regulation of the circulation in pathological states - Idiopathic cyclic edema
R01HL-14526-07 Oral contraceptives and hypertension (rats)
** P01HL-14985-07 DD15 Adaptation to hypoxia - Pregnancy at high altitude (human, animals)
P01HL-15835-D6 0002 Study of muscles related to heart disease - Proteins of smooth muscle system (cattle, rabbits)
R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
RD1HL-19279-D3 Intracellular action of aldosterone in hypertension (human, rats)
R01HL-20939-02 Regulation of fetal hemoglobin in humans
R01HL-21112-02 Aldosterone binding, clearance, and secretion in man

PROGESTERONE ANALOGS, CYPROTERONE (ACETATE)
R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)

PROGESTERONE ANALOGS, MEDROXYPROGESTERONE ACETATE
PD1HL-14985-D7 0DD4 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
P01HL-14985-D7 D008 Adaptation to hypoxia - Ventilatory drive and exercise capacity (human, dogs)
PD1HL-14985-07 0013 Adaptation to hypoxia - Chronic mountain sickness (men)

PROGESTERONE ANALOGS, NORETHINDRONE
R01HL-12557-D9 Effects of steroids and pregnancy on arteries and veins (guinea pigs)

PROGESTERONE ANALOGS, NORETHYNODREL
SEE ALSO FERTILITY, ANTIFERTILITY DRUGS, MESTRANOL-NORETHYNDDREL
R01HL-14526-07 Oral contraceptives and hypertension (rats)
RD1HL-19144-03 Contraceptive steroids and experimental hypertension (rats)

PROGESTINS
SEE ALSD PRDGESTERONE
PD1HL-16387-04 D002 The blood vessel and thrombogenesis - Hormonal effects on thrombogenesis (rats, rabbits)
P01HL-18574-03 Lipoprotein methodology and biomedical applications
RD1HL-19279-03 Intracellular action of aldosterone in hypertension (human, rats)

PROGNOSIS (DISEASE RELATED)
SEE OISEASES, PRDGNDSIS

PROGRAM PLANNING, BIOMEDICAL RESEARCH
SEE HEALTH SCIENCES RESEARCH ANALYSIS-EVALUATION-PLANNING

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

PROGRAM PLANNING, EDUCATION
SEE EDUCATION PROGRAMS (SYSTEMS) EVALUATION-PLANNING

PROGRAM PLANNING, HEALTH RESOURCES-SERVICES
SEE HEALTH CARE (SERVICES)(RESOURCES) PLANNING

PROGRAMMED INSTRUCTION
SEE EDUCATION, PROGRAMMED INSTRUCTION

PROGRESSIVE PATIENT CARE
SEE HEALTH CARE SERVICES, PATIENT CARE MANAGEMENT, COMPREHENSIVE CARE

PROLACTIN
SEE PITUITARY-DIENCEPHALON HORMONES, PROLACTIN

PROLACTIN, PLACENTAL
SEE REPRODUCTIVE HORMONES, CHORIONIC SOMATOMAMMOTROPIN

PROLINE
SEE CYCLIC AMINO ACIDS, PROLINE

PROLONGED PREGNANCY
SEE PREGNANCY DISORDERS, PROLONGED PREGNANCY

PROLYLCARBOXYPEPTIDASE
SEE PROTEASES AND PEPTIDASES, PROLYLCARBOXYPEPTIDASE

PROMETHAZINE
SEE PHENOTHIAZINES, PROMETHAZINE

PRONASE
SEE PROTEASES AND PEPTIDASES, PRONASE

PRONENESS TO DISEASE
SEE DISEASE PRONENESS-RISK

1,2-PROPANEDIOL
SEE ALCOHOLS, DIOLS, PROPYLENE GLYCOL

PROPANOL
SEE ALCOHOLS, PROPANOLS

PROPANOLOL
SEE NAPHTHYLAMINES, PROPRANOLOL

PROPERDIN
SEE IMMUNOLOGY, PROPERDIN

PROPIONIC ACID
SEE FATTY ACIDS, PROPIONIC ACID

PROPIONYL COA:CARBON DIOXIDE LIGASE (ADP-FORMING)
SEE CARBON-CARBON LIGASES, PROPIONYL COA CARBOXYLASE (ATP-HYDROLYZING)

PROPIONYL COA CARBOXYLASE
SEE CARBON-CARBON LIGASES, PROPIONYL COA CARBOXYLASE (ATP-HYDROLYZING)

PROPIONYL COA CARBOXYLASE (ATP-HYDROLYZING)
SEE CARBON-CARBON LIGASES, PROPIONYL COA CARBOXYLASE (ATP-HYDROLYZING)

PROPIONYL COA:CO2 LIGASE (ADP)
SEE CARBON-CARBON LIGASES, PROPIONYL COA CARBOXYLASE (ATP-HYDROLYZING)

PROPRANOLOL
SEE NAPHTHYLAMINES, PROPRANOLOL

PROPRIOCEPTION
SEE SENSORY-PERCEPTUAL PROCESSES, PROPRIOCEPTION

PROPYLENEGLYCOL
SEE ALCOHOLS, DIOLS, PROPYLENE GLYCOL

PROSENCEPHALON
SEE BRAIN, PROSENCEPHALON (GENERAL)

PROSTAGLANDINS
SEE FATTY ACIDS, UNSATURATED FATTY ACIDS, PROSTAGLANDINS

PROSTAGLANDINS ANALOGS
SEE FATTY ACIDS, UNSATURATED FATTY ACIDS, PROSTAGLANDINS ANALOGS

PROSTAGLANDINS-ASSOCIATED HYPERTENSION
SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), PROSTAGLANDINS-ASSOCIATED

PROSTAGLANDINS METABOLISM
SEE FATTY ACIDS METABOLISM, PROSTAGLANDINS METABOLISM

PROSTAGLANDIN SYNTHASE
SEE OXIDOREDUCTASES, PROSTAGLANDIN SYNTHASE

PROSTATE DISORDERS
SEE REPRODUCTIVE SYSTEM DISORDERS MALE, PROSTATE DISORDERS

PROSTATE NEOPLASMS
SEE NEOPLASMS OF REPRODUCTIVE SYSTEM MALE, PROSTATE NEOPLASMS

PROSTHESIS
SEE ALSO BIOMATERIALS, TISSUE SUPPORTING FRAMES
SEE ALSO BIOMEDICAL ENGINEERING, BIOLOGICAL POWER SYSTEMS
SEE ALSO CARDIOVASCULAR PROSTHESIS
SEE ALSO ELECTRONIC STIMULATORS (GENERAL)
SEE ALSO HEART PROSTHESIS
SEE ALSO MEMBRANE, PROSTHETIC MEMBRANES
SEE ALSO PLASTICS
SEE ALSO PROSTHETIC ORGANS AND TISSUES
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, IMPLANT
M P01HL-15195-04 Program project in biological materials
P01HL-15195-04 0001 Program project in biological materials - Design and synthesis
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
** P01HL-15195-04 0003 Program project in biological materials - Mechanical evaluation and fabrication
P01HL-15195-04 0004 Program project in biological materials - Biological evaluation and surface interaction studies (dogs)
** R01HL-20251-02 A novel approach to nonthrombogenic polymer surfaces (sheep, cattle)
** N01HV-32917-08 Materials development and testing
** N01HV-42928-07 Continued development of carbon film deposits for prosthetics
** N01HV-82919-00 Development of percutaneous energy transmission systems

PROSTHETIC LUNG
SEE RESPIRATORY SYSTEM PROSTHESIS, PROSTHETIC LUNG

PROSTHETIC MEMBRANES
SEE MEMBRANE, PROSTHETIC MEMBRANES

PROSTHETIC ORGANS AND TISSUES
SEE ALSO BLOOD SUBSTITUTES
SEE ALSO KIDNEY PROSTHESIS, ARTIFICIAL KIDNEY
SEE ALSO MEMBRANE, PROSTHETIC MEMBRANES
R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
R01HL-22455-01 Platelet concentration in the marginal layer (dogs, human)
** R01HL-22585-01 Plasma proteins adsorbed to artificial organs (human, rabbits)
** R01HL-22627-01 An inhibitor of platelet adhesion to artificial organs (human)

PROSTIGMINE
SEE PHENYLAMINES, NEOSTIGMINE

PROTAMINASE
SEE PROTEASES AND PEPTIDASES, CARBOXYPEPTIDASE

PROTAMINES
SEE NUCLEOPROTEINS, PROTAMINES

PROTEASE INHIBITORS
SEE ENZYME INHIBITORS, PROTEASE INHIBITORS (GENERAL)

PROTEASES AND PEPTIDASES
SEE ALSO BLOOD COAGULATION
SEE ALSO IMMUNOLOGY, ANTIGENS BACTERIAL, STREPTOKINASE
SEE ALSO PEPTIDES, VASOACTIVE PEPTIDES, KALLIKREIN
SEE ALSO PEPTIDES, VASOACTIVE PEPTIDES, RENIN
P01HL-03174-23 0009 Mechanisms of acute vascular reaction to injury - Mast cell lipid interaction (human, rats)
R01HL-03180-21 Relation of lymphatics to cardiopulmonary function (dogs)
R01HL-12833-09 Genetic and environmental influences on lung disease (human)
P50HL-14147-08 0006 Specialized center of research in thrombosis - Clearance mechanisms of coagulation moieties (human, rabbits, rodents)
P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
** R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
** R01HL-14778-10 Proteolytic enzymes and inhibitors in lung disease (mammals, human)
P50HL-15389-07 0015 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of thermophilic Actinomycete antigens
P01HL-15486-06 0003 Studies on thrombosis - Mechanism and prevention of fibrinopeptide B degradation (human)
R01HL-15615-06 Structure-function studies of human factor VIII/vWF
P01HL-15832-06 0009 Chemical-structural predispositions to lung injury - Immunology--Enzyme degradation products of human lung elastin and microfibril
P01HL-15835-06 0002 Study of muscles related to heart disease - Proteins of smooth muscle system (cattle, rabbits)
R01HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin
R01HL-15965-06 Experimental atherosclerosis and elastin metabolism (chicks)
P01HL-16118-06 0004 Study of emphysema - Metabolic activity of pulmonary connective tissue (human, hamsters)
** P01HL-16387-04 0004 The blood vessel and thrombogenesis Analysis of vascular basement membrane by enzymatic methods (human)
R01HL-16637-04 Development and regression of cardiac hypertrophy (rats)
P01HL-16748-05 0001 Cellular and immunological basis of pulmonary diseases Mechanisms of alveolar macrophage function and dysfunction (human, rabbits)
P01HL-16769-05 0004 Pathobiologic and host defense reactions in the lung Pathogenesis of Pseudomonas and Serratia pneumonias (rabbits)
** R01HL-16920-02 Proteases in normal and immunologically injured lung (guinea pigs, rabbits)
P01HL-17419-04 0007 Studies on mechanisms of hemostasis - Structural analysis of ordered forms of fibrinogen (human, cattle)
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)
R01HL-17551-04 Biosynthesis and metabolism of procollagen (human, monkeys, mice)
P50HL-17648-04 0025 Study of ischemic heart disease - Destruction and repair of cardiac muscle cell constituents (rat)
R01HL-17964-04 The alternate pathway for fibrinolysis (human)
R01HL-18012-04 Cellular defects in nocturnal hemoglobinuria (human)
R01HL-18533-03 Microcrystalline and crystalline fibrinogen (cattle, bacteria)
R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
P01HL-18827-02 0007 Platelet vessel wall interactions in thrombogenesis - Biochemistry and role factor V in thrombogenesis (human, cattle)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
** R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
P01HL-20552-02 0001 The development and regression of cardiac hypertrophy - Biochemical events in cardiac hypertrophy (rats)
R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
P01HL-20984-02 0004 Cellular mechanisms in cardiac hypertrophy - Myofibril accumulation in cardiac and vascular muscle cells in hypertrophy
P01HL-20994-02 0009 Dynamics of neutrophil elastase in the lung - Biosynthesis and degradation of elastin in emphysema (human, hamsters)
R01HL-21120-02 Membrane dynamics in alveolar macrophages (rabbits)
R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
R01HL-21274-01 Prorenin--Physiological and biochemical analysis (human)
R01HL-21376-02 Blood-gas barrier solute and water transport (rabbits)
R01HL-21769-01 Blood compatible benzamidine containing polymers
R01HL-22052-01 Organization of free cholesterol in serum lipoproteins (human, dogs)
R01HL-22257-01 Leukokinesis enhancing factor and lung infections (human, rats)
** R01HL-22266-01 Production of proteases by lung cells in culture (human, rodents, rabbits, sheep)
** R01HL-22530-01 Active site studies on blood proteases (human)
R01HL-22651-01 Control of protein metabolism in heart muscle
** R01HL-22676-01 Pathogenesis in experimental interstitial pneumonitis (rabbits)
R01HL-22985-01 Properties and assembly of Z-disk proteins (human, other species)
R01HL-23593-01 Mast cell granules--Structure and secretion (rats)

PROTEASES AND PEPTIDASES, ANGIOTENSINASE
P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
R01HL-16920-02 Proteases in normal and immunologically injured lung (guinea pigs, rabbits)
** P01HL-17813-04 0008 Lung disease and the oxygenation of blood and tissue - Pulmonary regulation of systemic blood pressure (human, rabbits, rats)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
** R01HL-18908-03 Angiotensin converting enzyme of human serum
** R01HL-19077-01 Biochemistry and molecular biology of sarcoidosis (human, rabbits)
R01HL-19237-03 Obstructive lung disease and alveolar macrophages (human, animals)
R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
R23HL-21189-01 Regulation of pulmonary endothelial cell activities (human, cattle)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R23HL-21894-01 Pulmonary angiotensin converting enzyme (cattle)
** R01HL-22242-01 The converting enzyme of lung (cattle, human)
R01HL-22387-01 Metalloenzymes and disease

PROTEASES AND PEPTIDASES, CARBOXYPEPTIDASE

R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)
R01HL-16920-02 Proteases in normal and immunologically injured lung (guinea pigs, rabbits)
R01HL-22387-01 Metalloenzymes and disease

PROTEASES AND PEPTIDASES, CATHEPSIN B

P01HL-20993-02 0006 Population dynamics of arterial cells in atherogenesis - Mechanism of regression of atherosclerosis by diet and injury (swine)

PROTEASES AND PEPTIDASES, CATHEPSINS

P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
P50HL-14153-07 0004 Johns Hopkins Lung Center--Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)
R01HL-14778-10 Proteolytic enzymes and inhibitors in lung disease (mammals, human)
P01HL-16387-04 0004 The blood vessel and thrombogenesis - Analysis of vascular basement membrane by enzymatic methods (human)
R01HL-16920-02 Proteases in normal and immunologically injured lung (guinea pigs, rabbits)
** P50HL-17669-04 0011 Ischemic heart disease center (SCOR) - Lysosomal function and lysosomal enzymes in normal and ischemic heart (rabbit)
R01HL-18087-03 Development and regression of cardiac hypertrophy (rats, rabbits)
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
R01HL-18679-04 Synthetic protease inhibitors
R01HL-19648-03 Myocardial protein degradation (dogs, rabbits)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)

PROTEASES AND PEPTIDASES, CHYMOTRYPSIN

R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
R01HL-15892-05 Inhibitors of proteinases (human, cattle, swine)
R01HL-22996-01 Venom proteases--Action on plasma protease inhibitors (human)

PROTEASES AND PEPTIDASES, COLLAGENASE

P50HL-14153-07 0004 Johns Hopkins Lung Center--Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)
** P01HL-15832-06 0004 Chemical-structural predispositions to lung injury - Proteolytic activity leucocytes in patients with obstructive lung disease
P01HL-16118-06 0003 Study of emphysema - Degradation of collagen and elastin (human, hamsters, mice)
P01HL-16118-06 0004 Study of emphysema - Metabolic activity of pulmonary connective tissue (human, hamsters)
P01HL-16118-06 0005 Study of emphysema - Mechanisms of elastase emphysema (mice)
P01HL-16387-04 0004 The blood vessel and thrombogenesis - Analysis of vascular basement membrane by enzymatic methods (human)
R01HL-16920-02 Proteases in normal and immunologically injured lung (guinea pigs, rabbits)
P01HL-18576-03 0004 Thrombosis research program project - Mechanism and control of collagen-platelet interaction
P01HL-18576-03 0011 Thrombosis research program project - Proteolysis and platelet function (human, cattle, rabbits)
R01HL-18679-04 Synthetic protease inhibitors
R01HL-19136-03 Mucopolysaccharide metabolism in cardiac anomalies (rats)
R01HL-19237-03 Obstructive lung disease and alveolar macrophages (human, animals)
P01HL-19717-02 0010 Response of the lung to injury - Proteoglycans in lung function and structure (hamsters)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
R01HL-19774-03 Pathogenesis of chronic lung disease (rats, mice, bacteria)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)
P01HL-20993-02 0006 Population dynamics of arterial cells in atherogenesis - Mechanism of regression of atherosclerosis by diet and injury (swine)
R01HL-21120-02 Membrane dynamics in alveolar macrophages (rabbits)
R01HL-21376-02 Blood-gas barrier solute and water transport (rabbits)
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
R01HL-22729-01 Intracellular degradation of newly synthesized collagen (human, chick, rabbit)

PROTEASES AND PEPTIDASES, DIPEPTIDASES

P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)

PROTEASES AND PEPTIDASES, ELASTASE

SEE ALSO ENZYME INHIBITORS, ELASTASE INHIBITORS
R01HL-09739-13 Biophysical studies of proteins (human)
P01HL-13262-07 0015 Arterial wall in atherosclerosis - Crosslinkage biosynthesis in aortic elastin and collagen (animals)
P50HL-14153-07 0004 Johns Hopkins Lung Center--Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)
** R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
R01HL-14778-10 Proteolytic enzymes and inhibitors in lung disease (mammals, human)
R01HL-14865-07 Biochemical studies on the pathogenesis of emphysema (human, rats)
** P01HL-15832-06 0004 Chemical-structural predispositions to lung injury - Proteolytic activity leucocytes in patients with obstructive lung disease
R01HL-15892-05 Inhibitors of proteinases (human, cattle, swine)
** R01HL-15979-05 Elastase, serum inhibitors and the vasculature (human, swine)
P01HL-16118-06 0003 Study of emphysema - Degradation of collagen and elastin (human, hamsters, mice)
** P01HL-16118-06 0004 Study of emphysema - Metabolic activity of pulmonary connective tissue (human, hamsters)
** P01HL-16118-06 0005 Study of emphysema - Mechanisms of elastase emphysema (mice)
P01HL-16387-04 0004 The blood vessel and thrombogenesis - Analysis of vascular basement membrane by enzymatic methods (human)
P01HL-16748-05 0001 Cellular and immunological basis of pulmonary diseases - Mechanisms of alveolar macrophage function and dysfunction (human, rabbits)
R01HL-16920-02 Proteases in normal and immunologically injured lung (guinea pigs, rabbits)
R01HL-18679-04 Synthetic protease inhibitors
R01HL-19237-03 Obstructive lung disease and alveolar macrophages (human, animals)
** P01HL-19717-02 0003 Response of the lung to injury - The role of elastolysis in emphysema (hamsters, rabbits)
P01HL-19717-02 0005 Response of the lung to injury - Studies on proteolysis and lung disease (human, animals)
P01HL-19717-02 0008 Response of the lung to injury - Experimental models of lung disease
** P01HL-19717-02 0012 Response of the lung to injury - Connective tissue biochemistry and enzyme injury of the lung (hamsters)
** P01HL-19717-02 0022 Response of the lung to injury - Localization of enzymes and sites of action in experimental emphysema (hamsters)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
R01HL-20220-03 Anaphylatoxins as inflammatory and chemotactic agents (guinea pig, rabbit, human)
R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
M P01HL-20994-02 Dynamics of neutrophil elastase in the lung
** P01HL-20994-02 0001 Dynamics of neutrophil elastase in the lung - Dynamics of neutrophil elastase in normal animals (dogs, rabbits)
** P01HL-20994-02 0002 Dynamics of neutrophil elastase in the lung - Neutrophil and neutrophilic elastase in human lungs
** P01HL-20994-02 0003 Dynamics of neutrophil elastase in the lung - Neutrophil elastase flux in models of lung disease (dogs)
P01HL-20994-02 0005 Dynamics of neutrophil elastase in the lung - Protease inhibitors in pulmonary inflammation and emphysema (rabbits)
** P01HL-20994-02 0007 Dynamics of neutrophil elastase in the lung - The etiology of experimental emphysema (dogs)
R01HL-21376-02 Blood-gas barrier solute and water transport (rabbits)
** R23HL-22437-01 Leukotactic mediators in lung inflammatory reactions (rats, rabbits, human)
R01HL-23595-01 Experimental emphysema--Depression of protease inhibitors (rats, hamsters)

PROTEASES AND PEPTIDASES, GLUTAMYL CYCLOTRANSFERASE

R01HL-12972-09 Glutathione deficiency in red cells (sheep, dogs)

PROTEASES AND PEPTIDASES, GLUTAMYL TRANSPEPTIDASE

P50HL-14230-07 0099 A/S SCOR--Lipids, atherosclerosis and thrombosis - Morphological, cytochemical study of normal and altered vasculature (mice)
** R01HL-21105-02 Organ specific drugs--Cardiovascular and renal effects (dogs)

PROTEASES AND PEPTIDASES, PAPAIN

R01HL-17543-03 0004 Magnetic tracers for diagnosis of lung disease - Magnetite retention, distribution, relaxation rate, viscosity (rabbits)

PROTEASES AND PEPTIDASES, PEPTIDASES

R01HL-21303-02 Collagen synthesis by cultured human vascular cells
R01HL-22896-01 Immediate metabolic fates of kinins and angiotensins (rat, rabbit, guinea pig)

PROTEASES AND PEPTIDASES, PROLYLCARBOXYPEPTIDASE

R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)

PROTEASES AND PEPTIDASES, PRONASE

R01HL-17571-03 Study of membrane permeability by NMR relaxation (human)

PROTEASES AND PEPTIDASES, THERMOLYSIN

R01HL-18679-04 Synthetic protease inhibitors

PROTEASES AND PEPTIDASES, TRASYLOL

P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
R01HL-18579-03 Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits)
R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
R01HL-21540-02 Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs)

PROTEASES AND PEPTIDASES, TRYPSIN

R01HL-01662-25 Equilibria in the fibrinogen-fibrin conversion (human, cattle)
R01HL-09739-13 Biophysical studies of proteins (human)
P01HL-12157-11 0055 Functions and mechanisms of cell membrane ion transport - Growth and development of synthetic strand heart cells in culture (chick embryo)
R01HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin
R01HL-19429-03 Phagocytosis--Ingestion in alveiolar macrophages (rabbits)
R01HL-22996-01 Venom proteases--Action on plasma protease inhibitors (human)

PROTECTIVE GROUPS (CHEMISTRY)

SEE CHEMICAL REACTION SITES, PROTECTIVE GROUPS

PROTEIN BINDING

SEE ALSO BIOLOGICAL TRANSPORT, TRANSPORT PROTEINS (SEE ALSO SPECIFICS)
SEE ALSO CARBOHYDRATES, PROTEIN BOUND CARBOHYDRATES
SEE ALSO ENDOCRINOLOGY, HORMONE BINDING PROTEINS
SEE ALSO HALOPROTEINS, PROTEIN BOUND IODINE
SEE ALSO PROTEINS, Z PROTEIN
R01HL-01803-23 0015 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunologic endothelial injury and lipid diet atherosclerosis (rabbits, monkey)
R01HL-02751-21 Function and metabolism of serum albumin (mammals, fish, amphibians)
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
P01HL-06314-17 0051 Immunologic mechanisms in cardiovascular disease - Conformational studies of phospholipid membranes and proteins
P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
** R01HL-10316-13 Structural studies on low density serum lipoproteins (human)
P01HL-12157-11 0033 Functions and mechanisms of cell membrane ion transport - Immunology aspects of active Na-K transport in sheep red cell (also human, mice)
P01HL-13262-07 0016 Arterial wall in atherosclerosis - Lipids in elastin preparations from atherosclerotic plaques (human, animals)
R01HL-13870-09 Control of myocardial sarcotubular calcium stores (dogs)
R01HL-13921-07 The lung as a metabolic organ (animals)
P50HL-14147-08 0001 Specialized center of research in thrombosis - Role of aspirin, other anti-platelet agents in platelet function (rat, human)
** P50HL-14147-08 0003 Specialized center of research in thrombosis - Surface thrombogenicity and phospholipid vesicle physical properties

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** Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P50HL-14147-08 0018 Specialized center of research in thrombosis - Biochemical aspects of platelet function in thrombosis and cell growth (human)
P50HL-14164-07 0035 A/S SCOR Comparative and experimental atherosclerosis - Lipid metabolism-Interaction with arterial metabolism (monkey, pigeon)
P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)
** P50HL-14214-07 0023 Newborn lung center for hyaline membrane disease - Regulation of fetal lung maturation--Vitamin A (rat, rabbit, sheep, human)
P50HL-14217-08 0054 Specialized center of research in thrombosis - Coagulation section--Platelet aggregation (human, pig, rabbit, dog)
P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
P50HL-14217-08 0062 Specialized center of research in thrombosis - Coagulation section-Factor VIII and Factor XII (human, cattle)
P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
P50HL-14230-07 0098 A/S SCOR--Lipids, atherosclerosis and thrombosis - Molecular properties of factor VIII (cattle, human, mice)
P50HL-14237-07 0002 Support for arteriosclerosis center - Interactions of lipoprotein particles with vascular surface (human, rat)
P50HL-15062-07 0019 Study of lipoproteins, artery wall, and atherosclerosis - Factors regulating lipoprotein-smooth muscle cell interaction (monkey)
P60HL-15160-07 0008 Center for sickle cell disease - Isocyanate derivatives and hemoglobin S association (human, rat)
R01HL-15226-06 Interaction of blood cells with fibrinogen and fibrin (human, animals)
R01HL-15341-06 Lung hormonal and chromosomal regulation (rats, rabbits)
P01HL-15596-05 0017 Coagulation, fibrinolysis, hemostasis and hepatitis - Heparin and antithrombin III
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)
R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
P01HL-15832-06 0011 Chemical-structural predispositions to lung injury - Interaction of cell receptors with vasoactive agents in pulmonary vascular bed
P01HL-15835-06 0001 Study of muscles related to heart disease - Control of contraction-relaxation of heart and muscle (rabbits, chickens)
P60HL-15999-05 0014 Miami comprehensive sickle cell center - Biochemical and morphological parameters of sickle cells (human)
R01HL-16101-05 Protein-lipid interaction (bacteria, models)
P01HL-16251-06 0002 Membrane-bound enzymes in heart and other tissues - Structural basis of regulation of cardiac succinate dehydrogenase
R01HL-16646-05 Pathobiology of thromboembolic disorders (human)
R01HL-16720-02 Platelet aggregation (human)
P60HL-17265-04 0003 Community blood resource center support - Research--Human factor IX--Role in intrinsic clotting (also baboons, dogs)
P60HL-17269-04 0009 National heart and blood vessel research and demonstration center - Physical methods laboratory (high density lipoproteins)
P60HL-17269-04 0011 National heart and blood vessel research and demonstration center - Lipoprotein structure laboratory (human)
P60HL-17269-04 0013 National heart and blood vessel research and demonstration center - Peptide synthesis laboratory (human)
P60HL-17269-04 0014 National heart and blood vessel research and demonstration center - Physio-chemical nature of lipid deposits in arterial wall (human)
P60HL-17269-04 0015 National heart and blood vessel research and demonstration center - Lipoprotein metabolism laboratory (human)
P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
** R01HL-17525-03 Molecular basis of collagen-platelet interaction (human, rat)
R01HL-17596-03 Leukocyte-endothelial interactions (rats)
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
P50HL-17682-04 0024 Study of ischemic heart disease - Phosphorylation of cardiac contractile proteins during ischemia (rat, guinea pig)
R01HL-17844-04 Artificial blood substitutes--02-binding iron chelates (human, mammals)
** R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
** R01HL-18179-03 Heart, platelet, and muscle myosins and actomyosins (cattle)
R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)
** R01HL-18553-03 Membrane defects in familial hypercholesteremia (human)
R01HL-18619-03 Transferrin iron binding and transport properties (chicken, rabbit, human)
R01HL-18634-03 Quarternary structure of erythro and chlorocruorins (invertebrates)
P01HL-18645-03 0004 Biology of the artery wall and atherosclerosis - Human arterial smooth muscle cell and lipoprotein interaction
R01HL-18650-03 Platelet collagen interaction (human)
R01HL-18714-04 Cardiovascular matrix-Morphogenesis and maturation (human, chick embryo, mammal)
R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
P50HL-18828-03 0002 Specialized center of research in thrombosis - Endothelial cell biology (human, guinea pig)
P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
P50HL-18828-03 0009 Specialized center of research in thrombosis - Platelet formation and megakaryocyte cell biology (guinea pig, human)
R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
R01HL-18878-03 Familial hypercholesteremia--Studies of fibroblasts (human)
R01HL-19132-04 Role of zinc transferrin in lymphocyte transformation (human)
R01HL-19429-03 Phagocytosis--Ingestion in alveolar macrophages (rabbits)
R01HL-19459-03 Dynamics of atherogenesis and lipoprotein formation (human, rabbit)
R23HL-19605-01 Lipid requirement of the lung mono-oxygenase system (rabbits)
** R01HL-19836-03 Kinin inhibitors detected by use of receptors (cattle)
R01HL-19982-02 Blood coagulation--Protein-metal ion-lipid interactions
R01HL-19996-02 Role of membrane proteins in platelet function (human, rabbits)
R01HL-20061-02 Serum lipoproteins and cell cholesterol metabolism (rats, human)
R01HL-20114-02 Collagen-platelet interaction and human aorta collagen (human)
R01HL-20142-02 Functional studies of abnormal human hemoglobins
R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
R01HL-20251-02 A novel approach to nonthrombogenic polymer surfaces (sheep, cattle)
R01HL-20391-03 Polydisperse LDL--Structure, metabolism and function (human)
R01HL-20666-02 Cell biology of platelet preservation (human)
R01HL-20794-02 Prostaglandin synthesis in human platelets (also in sheep, rabbit)
R01HL-20882-02 Interactions of plasma lipoproteins with erythrocytes (Rhesus, human)
P50HL-21006-02 0003 Specialized center of research in arteriosclerosis - Transport of vitamin A in plasma (human, rat)
P01HL-21016-02 0014 Sickle cell anemia and other hemoglobinopathies - Human hemoglobin mutants with abnormal oxygen binding
R01HL-21096-02 Sickle cell crisis--Role of the erythrocyte membrane (human)
R23HL-21128-02 ATP utilization in platelet contractile mechanisms (human, rabbits)
R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
R23HL-21189-01 Regulation of pulmonary endothelial cell activities (human, cattle)
** R23HL-21413-02 Structure and function of platelet calcium-binding protein (human)
R01HL-21429-02 Transport of LDL in arterial wall (human, mammals)
R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)
R01HL-21626-01 Proteoglycans of animal lung parenchyma (cattle, pigs, rabbits)
R01HL-21692-02 Purification of erythropoietin (human)
R23HL-21894-01 Pulmonary angiotensin converting enzyme (cattle)
R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
** R01HL-22081-20 The mechanism of collagen formation (human, cattle)
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
R01HL-22270-01 Platelet glycoprotein (human)
** R01HL-22325-01 Thermodynamics in respiratory protein binding (human, trout)
R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
R01HL-22771-01 Thrombogenic phospholipid surfaces (cattle)
R01HL-22875-01 Crotalase-Chemistry, physiology, clinical potential (rats, rabbits)
R01HL-22983-01 Studies on the catabolism of plasma lipoproteins (rats)
R01HL-23010-01 Control and mechanism of platelet aggregation (human)
R01HL-23161-01 0005 Biology of myocardial ischemia - Localization of complement in myocardial infarction (dog)
** R01HL-23200-01 Isolation of CA binding proteins from erythrocytes (human)
R01HL-23593-01 Mast cell granules--Structure and secretion (rats)
N01HV-42984-05 Interactions of modified biopolymers with blood (humans, rats)

PROTEIN BOUND CARBOHYDRATES
SEE CARBOHYDRATES, PROTEIN BOUND CARBOHYDRATES

PROTEIN BOUND IODINE
SEE HALOPROTEINS, PROTEIN BOUND IODINE

PROTEIN DEFICIENCY
SEE NUTRITIONAL ABNORMALITIES, PROTEIN DEFICIENCY

PROTEIN KINASE
SEE PHOSPHOTRANSFERASES, ATP:PROTEIN PHOSPHOTRANSFERASE

PROTEIN-POLYSACCHARIDE COMPLEXES
SEE PROTEOGLYCANS

PROTEIN STRUCTURE
SEE PROTEINS-PEPTIDES STRUCTURE

PROTEINOSIS
SEE PROTEINS METABOLISM DISORDERS, PROTEINOSIS

PROTEINS
SEE ALSO ALBUMINOIDS
SEE ALSO ALBUMINS
SEE ALSO AZOPROTEINS
SEE ALSO BLOOD PROTEINS
SEE ALSO FIBROUS PROTEINS
SEE ALSO GLOBINS
SEE ALSO GLOBULINS
SEE ALSO GLYCOPROTEINS
SEE ALSO IMMUNOLOGY, ACUTE PHASE PROTEINS
SEE ALSO IMMUNOLOGY, ANTIGENS BACTERIAL, M PROTEIN
SEE ALSO LIPOPROTEINS
SEE ALSO METALLOPROTEINS
SEE ALSO MUSCLE PROTEINS (AND CONTRACTILE PROTEINS)
SEE ALSO NUCLEIC ACIDS, MRNA
SEE ALSO NUTRITION, DIETARY CONSTITUENTS, DIETARY PROTEINS
SEE ALSO PEPTIDES
SEE ALSO PHOSPHOPROTEINS
SEE ALSO PLANTS PROTEINS
SEE ALSO PROTEOGLYCANS
SEE ALSO PROTEOLIPIDS
SEE ALSO RESPIRATORY PROTEINS (GENERAL)
R01HL-04512-19 Ultrastructural studies of capillary permeability (rats, mice)
P01HL-06285-18 0145 Cardiovascular-respiratory physiology and biochemistry - Pulmonary, pleural and systemic microcirculation (animals)
P01HL-06285-18 0213 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gas vacuole membrane (Halobacterium)
P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)
P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changes in lymphocytes (human, mice)
P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo--Capillary membrane in normal pulmonary hypertensive lung
R01HL-12760-09 Surface studies of membrane lipids and proteins
R01HL-13336-09 Biochemistry and physiology of human platelets
** R01HL-16233-05 Molecular cardiology of MOP-induced left ventricular failure (dogs)
R01HL-16666-05 Micropinocytosis in isolated capillary endothelium
P01HL-16833-04 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)
R01HL-18226-04 Mechanism of oxygen supply to tissue (human, animals)
R01HL-20241-02 Shear and area moduli for abnormal red cell membranes (human)
R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
R01HL-21246-02 Roles of cholesterol and its metabolic regulation (CHO cell mutants)
R01HL-21282-01 Dynamics of interstitial space in whole animals (rats)
R01HL-21342-02 Isolation and analysis of sodium channel from heart (frogs)
** R01HL-21995-01 Protein phosphorylation and adrenergic effects
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

PROTEINS, BACTERIAL (GENERAL)

SEE ALSO PIGMENTS, BACTERIAL, BACTERIORHOOOPSIN-RETINAL
SEE ALSO RESPIRATORY PROTEINS, REOOXINS
** R01HL-01803-23 0001 Arteriosclerosis, glomerulonephritis, rheumatic fever - Post-streptococcal glomerulonephritis (rabbit)
** P01HL-06285-18 0213 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gas vacuole membrane (Halobacterium)
R01HL-16101-05 Protein-lipid interaction (bacteria, models)

PROTEINS, MEMBRANE PROTEINS

SEE ALSO ORUGS RECEPTORS
SEE ALSO ENOOCRINOLOGY, HORMONE RECEPTORS
SEE ALSO NEUROTRANSMITTERS RECEPTORS
P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications - Myocardial cells in tissue culture (rats, chick embryo)
** R01HL-15616-04 Platelet membrane proteins in aggregation (human)
P01HL-16851-04 0006 Human red cell membrane in health and disease - Hexose transport and erythrocyte membrane proteins (human)
R01HL-17878-04 Structural studies of the human erythrocyte membrane
** R01HL-17879-04 Molecular structure of the ouabain sensitive ATPase (dogs)
R01HL-18163-04 Red cell membrane effects due to oxidizing agents
** P01HL-18208-04 0007 Center for the study of blood cell rheology - RBC membrane protein (human)
R01HL-19068-03 Changes in membrane properties during erythropoiesis (chick embryo)
** R01HL-19996-02 Role of membrane proteins in platelet function (human, rabbits)
** R01HL-20140-02 Glycoproteins of platelet membrane and platelet function (human)
R01HL-20197-02 Maintenance and repair of vascular endothelium (human, animals)
R01HL-20365-03 Molecular mechanisms of anion transport
** R01HL-20971-10 Membrane glycoproteins of platelets and leukocytes (human)
R01HL-21120-02 Membrane dynamics in alveolar macrophages (rabbits)
R01HL-21404-01 Raman spectroscopy of erythrocyte and model membranes (human)
R01HL-21995-01 Protein phosphorylation and adrenergic effects
R01HL-22432-01 Molecular studies of human erythrocyte membranes
R01HL-22486-01 Enzyme regulation in cultured arterial cells (swine)
R01HL-22502-01 Role of phosphoinositides in human platelet secretion
P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
R01HL-23013-01 Smooth muscle development in vitro (chick embryo)
** R01HL-23108-01 Membrane biochemistry of RH antigens (human)
R01HL-23200-01 Isolation of CA binding proteins from erythrocytes (human)

PROTEINS, MEMBRANE PROTEINS, SPECTRIN

R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
** R01HL-17411-04 Molecular studies of red blood cell spectrin (human)
P01HL-18208-04 0007 Center for the study of blood cell rheology - RBC membrane protein (human)
R01HL-21469-01 Active transport and effect of CA00 in sickle cell (human)

PROTEINS, VIRAL (GENERAL)

P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of arenavirus and Bunyamweraviruses
** R01HL-23588-01 NDV infection--Analysis at the subcellular level (chickens)

PROTEINS, Z PROTEIN

** R01HL-17194-03 Comparison of two inherited forms of alpha-1-antitrypsin (human)
** P60HL-17269-04 0021 National heart and blood vessel research and demonstration center - Growth and development of heart--Ultrastructure (dog, guinea pig, rat, cat)
** R01HL-22985-01 Properties and assembly of Z-disk proteins (human, other species)

PROTEINS BIOSYNTHESIS

SEE ALSO AMINO ACYL TRNA
SEE ALSO CELL COMPONENTS, POLYSOMES
SEE ALSO CELL COMPONENTS, RIBOSOMES
SEE ALSO GENETICS, GENETIC COOING
SEE ALSO GENETICS, GENETIC REGULATION, GENETIC INOUCTION-REPRESSION-OEREPRESSION, TRANSLATION
SEE ALSO HEMOPROTEINS BIOSYNTHESIS
SEE ALSO IMMUNOLOGY, ANTIBOOY FORMATION
SEE ALSO NUCLEIC ACIOS, MRNA
SEE ALSO NUCLEIC ACIOS, TRNA
R01HL-01803-23 0017 Arteriosclerosis, glomerulonephritis, rheumatic fever - Contractile and relaxing proteins of blood vessels and platelets (mammals, human)
R01HL-02262-23 Mechanisms regulating plasma proteins and solutes (human, dogs)
R01HL-02751-21 Function and metabolism of serum albumin (mammals, fish, amphibians)
R01HL-02986-21 Zonal renal change with potassium deficiency (rats, human)
P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel didease--Cell and matrix response (human, mice)
P01HL-06285-18 0186 Cardiovascular-respiratory physiology and biochemistry - Leukocyte hormone receptors and cyclic nucleotides (tissue culture)
P01HL-06285-18 0193 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Aldosterone (rats, toads)
P01HL-06314-17 0053 Immunologic mechanisms in cardiovascular disease - Cellular functions controlled by cyclic GMP (human, mice, guinea pigs)
P01HL-06314-17 0064 Immunologic mechanisms in cardiovascular disease - Diabetic vascular disease (human, rats, mice)
P01HL-06835-17 0038 Cardiovascular disease - Effect of chronic administration of angiotensin antagonist (rats)
P01HL-06835-17 0062 Cardiovascular disease - Role of collagen in atherosclerosis (dogs, pigeons)
M P01HL-09011-15 A research and resource program in blood
** P01HL-09011-15 0002 A research and resource program in blood - Biosynthesis of fibrinogen (dogs)
** P01HL-09011-15 0009 A research and resource program in blood - Control of RNA synthesis in nucleated cells (yeast, ascites cell)
** P01HL-09011-15 0015 A research and resource program in blood - Regulation of synthesis and transport of diverse proteins in liver (rats)
P01HL-09011-15 0021 A research and resource program in blood - Regulation of transfer RNA methylating enzymes (rats, E coli)
** R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
** R01HL-09562-14 Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs)
** R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
P01HL-11310-12 0101 Mechanisms of cardiovascular disease - Molecular pathogenesis of vascular disease
P01HL-11310-12 0105 Mechanisms of cardiovascular disease - Biosynthesis of mammalian glycoproteins (rabbits)
P01HL-11310-12 0106 Mechanisms of cardiovascular disease - Biochemical characterization of the collagens in vascular tissue (catte)
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)
** R01HL-11551-11 RNA and protein synthesis in repair of heart injury (mice, rats)
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
R01HL-12561-11 Cardiovascular studies on copper deficiency (swine)
R01HL-12972-09 Glutathione deficiency in red cells (sheep, dogs)
P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)
P01HL-13262-07 0012 Arterial wall in atherosclerosis - Characterization of connective tissue components (animals)
** R01HL-13831-08 Factors regulating embryonic cardiac morphogenesis (chick, salamandra)
** P50HL-14164-07 0036 A/S SCOR--Comparative and experimental atherosclerosis - Connective tissue metabolism--Interaction with arterial metabolism (monkeys)
P50HL-14187-07 0012 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
** P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)
P50HL-14212-07 0004 Correlated studies of pulmonary fibrosis - Collagen metabolism in lung tissue and lung cells (human, animal)
P50HL-14212-07 0007 Correlated studies of pulmonary fibrosis - Protein metabolism in alveolar macrophages (rabbits, guinea pigs, human)
P50HL-14212-07 0016 Correlated studies of pulmonary fibrosis - Role of pulmonary alveolar macrophages in fibrosis (human, rabbit)
P50HL-14214-07 0021 Newborn lung center for hyaline membrane disease - Oevelopment of surfactant system--Surfactant production and release (rat, rabbit)
** P50HL-14218-07 0006 Pulmonary SCOR--Newborn lung center - Biochemical characteristics of the lung in ROS (human, sheep)
** P50HL-14237-07 0004 Support for arteriosclerosis center - Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys)
P01HL-14388-07 0190 Regulation of the circulation in pathological states - Mechanisms of the renal actions of aldosterone (rats)
R01HL-14706-07 Fetal hearts in organ culture (mice)
R01HL-14847-07 Mechanism of action of vitamin K and anticoagulants (rats)
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
** R01HL-15026-12 Quantitative genetic control of protein synthesis (human, primates, mammals)
P50HL-15061-07 0004 Response of lung to injury - Biochemical abnormalities in connective tissues (rats)
** P50HL-15062-07 0009 Study of lipoproteins, artery wall, and atherosclerosis - Plasma lipoprotein biosynthesis (Rhesus monkeys)
P50HL-15062-07 0020 Study of lipoproteins, artery wall, and atherosclerosis - Artery wall reactions--Elevated pressure and hyperlipemia (monkey)
** R01HL-15478-05 Lipid flux and collagen synthesis in atherosclerosis (rabbits)
** R01HL-15619-05 Regulation of prothrombin synthesis in cultured cells (rats)
P01HL-15832-06 0001 Chemical-structural predispositions to lung injury - Chemical composition of lung connective tissue proteins (human, animals)
P01HL-15835-06 0009 Study of muscles related to heart disease - Aspects of cardiac and skeletal myogenesis (chick embryo)
R01HL-15965-06 Experimental atherosclerosis and elastin metabolism (chicks)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
P60HL-16005-05 0013 Comprehensive sickle cell center - Study of regulation of erythropoiesis in vitro (human, rat, hamster, rabbit)
P01HL-16118-06 0005 Study of emphysema - Mechanisms of elastase emphysema (mice)
P01HL-16137-05 0004 Alveolar biology - Subcellular processes and controls in the surfactant system (animals)
** P01HL-16137-05 0008 Alveolar biology - Macromolecular events in pulmonary cells in toxic environments (animals)
P01HL-16251-06 0004 Membrane-bound enzymes in heart and other tissues - Biosynthesis and degradation of succinate dehydrogenase, histidyl (yeast, mammal)
R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
P01HL-16411-04 0003 Blood systems in coagulation and vessel disease - Molecular events involving the late stages of coagulation (rabbits)
R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
** R01HL-16588-05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
R01HL-16633-04 Chemistry and biology of factor IX activator (human, mice, rats)
R01HL-16637-04 Oevelopment and regression of cardiac hypertrophy (rats)
R01HL-16725-03 Physiological regulation of pulmonary surfactant (dogs, rats)
R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
R01HL-16872-04 Antihemophilic factor (human)
** R01HL-16904-03 Regulation of smooth muscle cells in arteriosclerosis (rabbit aorta)
P60HL-17269-04 0013 National heart and blood vessel research and demonstration center - Peptide synthesis laboratory (human)
** P60HL-17269-04 0020 National heart and blood vessel research and demonstration center - Nucleic acid and protein metabolism in growth and development of heart (rat)
M P01HL-17419-04 Studies on mechanisms of hemostasis
** P01HL-17419-04 0006 Studies on mechanisms of hemostasis - Effect of hormones, drugs and other agents on fibrinogen synthesis (chick)
R01HL-17551-04 Biosynthesis and metabolism of procollagen (human, monkeys, mice)
** P50HL-17648-04 0025 Study of ischemic heart disease - Oestruction and repair of cardiac muscle cell constituents (rat)
** P50HL-17648-04 0026 Study of ischemic heart disease - Control of muscle cell proliferation (organ culture)
** P50HL-17665-04 0029 Study of ischemic heart disease - Myocardial protein synthesis and degradation in low oxygen states (rabbit, dog)
R01HL-17710-04 Selective replication of hemoglobin genes (mice, ducks, human)
P01HL-17812-04 0002 Thrombosis and plasma proteins - Activators of fibrinolysis--Synthesis and degradation (human, cattle)
R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-18087-03 Development and regression of cardiac hypertrophy (rats/ rabbits)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
R01HL-18634-03 Quarternary structure of erythro and chlorocruorins (invertebrates)
** P01HL-18645-03 0003 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
P01HL-18708-03 0008 Oxygen, energy and contractility in cardiac tissue - Cardiac cell culture facility
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
P50HL-18828-03 0009 Specialized center of research in thrombosis - Platelet formation and megakaryocyte cell biology (guinea pig, human)
** R01HL-18876-03 Human alpha-1-antitrypsin synthesis in vitro
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
R01HL-19011-03 Smooth muscle cell membrane glycoprotein biosynthesis (cattle)
R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
R01HL-19068-03 Changes in membrane properties during erythropoiesis (chick embryo)
R01HL-19077-01 Biochemistry and molecular biology of sarcoidosis (human, rabbits)
** R01HL-19168-03 Biosynthesis of plasma lipoprotein (rats, rabbits)
P50HL-19171-02 0010 Pulmonary SCOR--Lung injury by childhood infections - Metabolic pathways of normal and injured respiratory cells
** P50HL-19185-02 0001 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sites of synthesis, secretion and structure of surface active material (rat)
P50HL-19185-02 0002 Pulmonary SCOR--Neonatal respiratory distress syndromes - Biochemistry, ultrastructure--Pulmonary surface active material (human, animal)
** P50HL-19190-02 0004 Pulmonary SCOR--Pathophysiology, management of IROS - Type II cells--Control of protein turnover (rabbit)
R01HL-19195-03 Hormonal regulation of lung function (rats)
** P01HL-19242-02 0001 Study of vascular smooth muscle - Energy metabolism and protein turnover in vascular smooth muscle (rats)
P01HL-19242-02 0004 Study of vascular smooth muscle - Cyclic nucleotide metabolism in smooth muscle cultures (human, rats)
R01HL-19252-02 Vascular connective tissue--Role in atherosclerosis (rabbits)
** R01HL-19322-03 Role of pituitary hormones in the action of vitamin K (rats)
R01HL-19459-03 Dynamics of atherogenesis and lipoprotein formation (human, rabbit)
R01HL-19491-03 Mechanism of iron storage and mobilization by ferritin (horse)
R23HL-19594-01 Tropocollagen and tropoelastin uptake in lung cells (human)
R01HL-19668-03 Biochemistry of lung connective tissue (rats)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
** P01HL-19717-02 0001 Response of the lung to injury - Lung elastic tissue (animals)
** P01HL-19717-02 0002 Response of the lung to injury - Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)
P01HL-19717-02 0004 Response of the lung to injury - Regulatory and physical-chemical properties of lung lysyl oxidase (animals)
P01HL-19717-02 0006 Response of the lung to injury - Glycosaminoglycans and proteoglycans of the lung (human, rats, hamsters)
P01HL-19717-02 0028 Response of the lung to injury - Compensatory growth of the lung following pneumonectomy (rabbits)
R01HL-20087-02 Developmental processes in pulmonary hypertension (rats)
R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)
R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
R01HL-20301-02 Genetics of glycosyltransferases in human blood
R01HL-20317-02 Procoagulant lipoproteins--Biochemistry and bioactivity (goats, rabbits)
** R01HL-20344-02 Regulation of protein turnover in lung tissue (rats)
** R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
R01HL-20384-09 Social stimulation, RNA and cardiovascular disease (animals)
** R01HL-20388-03 Regulation of protein turnover in diabetic heart (rat)
R01HL-20547-02 Glycoproteins in pulmonary alveolar proteinosis (human)
** P01HL-20552-02 0001 The development and regression of cardiac hypertrophy - Biochemical events in cardiac hypertrophy (rats)
P01HL-20552-02 0010 The development and regression of cardiac hypertrophy - Energy metabolism in the hypertrophied heart animals
** R01HL-20577-03 The mechanism of action of vitamin K
P01HL-20592-02 0011 Cell biology of cardiac and skeletal muscle - Myosin and cytochrome oxidase messenger RNAs (chicken)
R01HL-20635-03 Factors in lung development (rat and chick embryo)
R01HL-20708-02 Voltage clamp of embryonic heart cell aggregates (rat and chick embryos)
R01HL-20764-02 Elastin and calcification in pulmonary and vascular disease (human, mammals)
** P01HL-20984-02 0001 Cellular mechanisms in cardiac hypertrophy - Contractile proteins in cardiac hypertrophy (rabbits, calves)
** P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
P50HL-21006-02 0003 Specialized center of research in arteriosclerosis - Transport of vitamin A in plasma (human, rat)
** R23HL-21234-02 The regulation of cardiac hypertrophy (rabbits)
** R01HL-21303-02 Collagen synthesis by cultured human vascular cells
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)
** R23HL-21369-02 Tracheal mucin synthesis in experimental bronchitis (rats)
R23HL-21396-02 Isolation, growth and metabolism of type 1 pneumocytes (rabbits)
R23HL-21504-02 Collagen synthesis in pulmonary fibrosis cells (human)
R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)
R01HL-21617-02 Biochemistry of lung proteoglycans (rabbits, cattle)
** R01HL-21646-02 Biosynthesis of fractionated proteoglycans of lung (rabbits)
** R23HL-21663-01 Regulation of collagen biosynthesis (chick, embryo)
R01HL-21665-01 Collagen polymorphism and arterial structure (monkeys, guinea pigs)
R23HL-21950-01 Endothelial cell mechanisms in vascular disease (human)
** R01HL-21970-01 Myofibrillar assembly and breakdown in cardiac muscle (rats)
R01HL-21995-01 Protein phosphorylation and adrenergic effects
R01HL-22081-20 The mechanism of collagen formation (human, cattle)
R01HL-22208-02 Elastin structure, fibrogenesis and disease (chickens, rabbits)
** R01HL-22290-01 Cardiac energy metabolism and protein synthesis (mice)
R01HL-22333-01 Cellular basis of small airways function (rats)
** R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
R01HL-22444-01 Bronchial mucus production in organ culture (human)
** P01HL-22619-01 0007 Cellular mechanisms of heart failure - Regulation of contractile protein levels in heart muscle (rats)
R01HL-22623-01 Polyamines cellular mediators of atherogenesis (human)
** R01HL-22729-01 Intracellular degradation of newly synthesized collagen (human, chick, rabbit)
R01HL-22896-01 Immediate metabolic fates of kinins and angiotensins (rat, rabbit, guinea pig)
R01HL-22981-17 Membrane-associated functions in microorganisms (bacteria, protozoa)
R01HL-23542-01 Pulmonary vascular smooth muscle cell dynamics (rat, rabbit)
R01HL-23626-01 A study of the regulation of myocardial hypertrophy (rats)
N01HV-42984-05 Interactions of modified biopolymers with blood (humans, rats)
N01HV-53029-04 Nonhuman primate models of atherosclerosis
N01HV-53030-05 Nonhuman primate models of atherosclerosis and hypertension
N01HV-53031-04 Nonhuman primate models of atherosclerosis and hypertension

PROTEINS COAGULATION

SEE ALSO BLOOD COAGULATION
SEE ALSO PROTEINS DENATURATION
P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
P60HL-15168-07 0009 Comprehensive sickle cell disease center - Spin-label study of sickling (human)
R01HL-21988-01 Biochemistry of human platelet chemotaxis

PROTEINS CONTRACTION

SEE ALSO MUSCLE FUNCTION, MUSCLE CONTRACTION
** R01HL-01803-23 0017 Arteriosclerosis, glomerulonephritis, rheumatic fever - Contractile and relaxing proteins of blood vessels and platelets (mammals, human)
R01HL-09234-13 Amino acids of contractile proteins of failing hearts (dogs, hamsters)
** R01HL-09544-12 Biochemistry of contractile proteins (animals)
** R01HL-14938-06 Contractile proteins of heart muscle (dogs, rabbits)
** R01HL-15679-06 Heart and smooth muscle contractile protein (swine, cattle, rabbits, chickens)
R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
** R01HL-18030-04 The role of contractile proteins in platelets (human, rabbits)
R01HL-18077-04 Smooth muscle cell organization and Ca20 concentration control (chickens)
** R01HL-18516-03 Atherosclerosis and the arterial contractile proteins (pigs, rabbits)
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
** P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
P01HL-18708-03 0008 Oxygen, energy and contractility in cardiac tissue - Cardiac cell culture facility
** R01HL-19323-03 Studies of platelet microtubule protein
** R01HL-19429-03 Phagocytosis--Ingestion in alveolar macrophages (rabbits)
R01HL-20754-02 Anesthetic-induced myocardial depression (rabbits)
R01HL-21096-02 Sickle cell crisis--Role of the erythrocyte membrane (human)
** R01HL-21471-02 Structure-function studies on actin and myosin (human, protozoa, rabbits, cattle)
R01HL-21993-01 Hypertensive hypertrophy--Effects of cardiac mechanics (rats)
R01HL-22137-02 Structure-function pathology of isolated heart cells (mice, rats)
** R01HL-22194-02 Allosteric function of platelet contractile proteins (human)
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

PROTEINS DENATURATION

SEE ALSO PROTEINS COAGULATION
R01HL-13652-08 Metal sites in metalloproteins (mushroom)
P50HL-15062-07 0007 Study of lipoproteins, artery wall, and atherosclerosis - Physical chemistry of lipid-protein interaction (human)
R01HL-16637-04 Development and regression of cardiac hypertrophy (rats)
** R23HL-21271-02 Extracorporeal circulation and protein denaturation (human)
R01HL-21622-02 Structure and interactions of lung proteoglycans (cattle)

PROTEINS METABOLISM

SEE ALSO AMINO ACIDS METABOLISM (GENERAL)
SEE ALSO HEMOPROTEINS METABOLISM
SEE ALSO PROTEINS BIOSYNTHESIS
** R01HL-02751-21 Function and metabolism of serum albumin (mammals, fish, amphibians)
** P01HL-06285-18 0203 Cardiovascular-respiratory physiology and biochemistry - Pathways of lipid transport in the blood (animals)
P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
P01HL-06664-17 0036 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
R01HL-09172-15 Protein and RNA synthesis in heart muscle (rats)
R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
P01HL-11310-12 0080 Mechanisms of cardiovascular disease - Metabolism of the hypertrophied myocardium (human)
P01HL-13262-07 0015 Arterial wall in atherosclerosis - Crosslinkage biosynthesis in aortic elastin and collagen (animals)
** P50HL-14147-08 0006 Specialized center of research in thrombosis - Clearance mechanisms of coagulation moieties (human, rabbits, rodents)
P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
M P50HL-14197-07 Support for center of research on arteriosclerosis
** P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
** P50HL-14212-07 0004 Correlated studies of pulmonary fibrosis - Collagen metabolism in lung tissue and lung cells (human, animal)
** P50HL-14212-07 0007 Correlated studies of pulmonary fibrosis - Protein metabolism in alveolar macrophages (rabbits, guinea pigs, human)
P50HL-14212-07 0016 Correlated studies of pulmonary fibrosis - Role of pulmonary alveolar macrophages in fibrosis (human, rabbit)
P50HL-14218-07 0004 Pulmonary SCOR--Newborn lung center - Metabolism of infants with respiratory distress syndrome (human)
P50HL-14237-07 0001 Support for arteriosclerosis center - Role of apolipoproteins in lipoprotein catabolism (human, rats)
** R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
** P50HL-15062-07 0009 Study of lipoproteins, artery wall, and atherosclerosis - Plasma lipoprotein biosynthesis (Rhesus monkeys)
P50HL-15062-07 0019 Study of lipoproteins, artery wall, and atherosclerosis - Factors regulating lipoprotein-smooth muscle cell interaction (monkey)
R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
** R01HL-15965-06 Experimental atherosclerosis and elastin metabolism (chicks)
R01HL-16166-05 Structure of alpha-1-antitrypsin in relation to emphysema (human)
R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
** R01HL-16637-04 Development and regression of cardiac hypertrophy (rats)
** P60HL-17269-04 0015 National heart and blood vessel research and demonstration center - Lipoprotein metabolism laboratory (human)
R01HL-17551-04 Biosynthesis and metabolism of procollagen (human, monkeys, mice)
P50HL-17648-04 0025 Study of ischemic heart disease - Destruction and repair of cardiac muscle cell constituents (rat)
** P50HL-17665-04 0029 Study of ischemic heart disease - Myocardial protein synthesis and degradation in low oxygen states (rabbit, dog)
** R01HL-18258-04 Regulation of protein degradation in heart (rats)
P50HL-18318-03 0014 Pathogenesis and complications of hypertension - Arterial metabolism and atherogenesis (rat, rabbit)
R01HL-18824-03 Mechanisms of heart failure in myopathic hamster
R01HL-18918-03 Characterization of lung elastins (rat, rabbit, chicken, Rhesus)
R01HL-19063-03 Cholesterol and lipoprotein metabolism (rat hepatocytes)
P50HL-19153-02 0002 SCOR--Pulmonary edemas--Etiology, pathogenesis - Lung fluid dynamics--Classical mediators and their inhibitors (sheep)
P50HL-19153-02 0003 SCOR--Pulmonary edemas--Etiology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
** P50HL-19190-02 0004 Pulmonary SCOR--Pathophysiology, management of IRDS - Type II cells--Control of protein turnover (rabbit)
R01HL-19252-02 Vascular connective tissue--Role in atherosclerosis (rabbits)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
** R01HL-20388-03 Regulation of protein turnover in diabetic heart (rat)
** R01HL-20391-03 Polydisperse LDL--Structure, metabolism and function (human)
R01HL-20397-03 VLDL-TG metabolism in diabetes mellitis (human, rat)
R01HL-20447-03 Connective tissue and diabetic vascular disease (human)
** R01HL-21001-01 Protein and thrombus deposition on vascular grafts
R01HL-21096-02 Sickle cell crisis--Role of the erythrocyte membrane (human)
** R01HL-21140-01 Studies of pulmonay alveolar macrophage function (rabbits)
R23HL-21225-02 Connective tissue precursor molecules in the lung (rabbits, hamsters)
R01HL-21641-02 Structural studies of lung proteoglycans (pigs, cattle, rabbits)
** R01HL-21644-01 Fibronectin and related glycoproteins (human, rodents)
** R23HL-22383-01 Biosynthesis--Response to oxygen depletion (human, primates, rats)
R01HL-22486-01 Enzyme regulation in cultured arterial cells (swine)
R01HL-22552-02 Abnormal alveolar permeability and lung disease (sheep)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
** R01HL-22651-01 Control of protein metabolism in heart muscle
N01HV-72978-02 Development of models of hypertension
N01HV-72980-02 Development of models of hypertension

PROTEINS METABOLISM DISORDERS

SEE ALSO BLOOD PROTEINS DISORDERS
SEE ALSO BLOOD PROTEINS DISORDERS CONGENITAL
SEE ALSO METABOLIC DISORDERS (INBORN), AMYLOIDOSIS
** R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-16588-05 Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human)
R01HL-20954-02 Hyperlipoproteinemia (rats, human)

PROTEINS METABOLISM DISORDERS, PROTEINOSIS

SEE ALSO RESPIRATORY DISORDERS, PULMONARY ALVEOLAR PROTEINOSIS
P01HL-07896-15 0021 Environmental biomedical research program - Liquid breathing and lung lavage (human)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
R01HL-20675-02 Alveolar macrophage function in man

PROTEINS-PEPTIDES STRUCTURE

SEE ALSO ENZYME STRUCTURE
SEE ALSO GLOBULINS, GAMMA GLOBULINS, IMMUNOGLOBULIN STRUCTURE
SEE ALSO HEMOPROTEINS STRUCTURE
R01HL-01662-25 Equilibria in the fibrinogen-fibrin conversion (human, cattle)
R01HL-01803-23 0001 Arteriosclerosis, glomerulonephritis, rheumatic fever - Post-streptococcal glomerulonephritis (rabbit)
R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
** R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)
** R01HL-04366-19 Plasminogen--Activation and structure-function relations (mammals, birds)
** R01HL-06221-17 Composition and structure of plasma lipoproteins (human, turkeys, baboons)
P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
P01HL-06285-18 0215 Cardiovascular-respiratory physiology and biochemistry - Conformation of biopolymers
** P01HL-06314-17 0051 Immunologic mechanisms in cardiovascular disease - Conformational studies of phospholipid membranes and proteins
R01HL-08893-14 Structure and function of membrane proteins (human)
P01HL-09011-15 0005 A research and resource program in blood - Characterization of hepatitis-B antigen and the cause of serum hepatitis (human)
R01HL-09489-13 Myocardial lipid metabolism and regulation (rats)
R01HL-09544-12 Biochemistry of contractile proteins (animals)
R01HL-09739-13 Biophysical studies of proteins (human)
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
** R01HL-10316-13 Structural studies on low density serum lipoproteins (human)
R01HL-10642-18 Plasma cholesterol metabolism (human, macaca)
P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
P01HL-11310-12 0097 Mechanisms of cardiovascular disease - Structural-functional relationships of neuronal differential alloantigens (mice)
P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of arenavirus and Bunyamweraviruses
P01HL-11310-12 0101 Mechanisms of cardiovascular disease - Molecular pathogenesis of vascular disease
R01HL-11511-10 Structure of ferritin and its role in iron metabolism (horse, rats, human)
** R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
R01HL-12561-11 Cardiovascular studies on copper deficiency (swine)
P01HL-13262-07 0011 Arterial wall in atherosclerosis - Role of hypertension in atherosclerosis (human, monkey, dog)
P01HL-13262-07 0012 Arterial wall in atherosclerosis - Characterization of connective tissue components (animals)
P01HL-13262-07 0015 Arterial wall in atherosclerosis - Crosslinkage biosynthesis in aortic elastin and collagen (animals)
R01HL-13831-08 Factors regulating embryonic cardiac morphogenesis (chick, salamandra)
R01HL-13909-27 Physiochemistry and immunology of macromolecules
** R01HL-13989-05 Role of water in respiratory protein structure
** R01HL-14020-06 Characterization of myosin from blood platelets (rabbit)
** P50HL-14147-08 0018 Specialized center of research in thrombosis - Biochemical aspects of platelet function in thrombosis and cell growth (human)
P50HL-14153-07 0016 Johns Hopkins Lung Center--Chronic diseases of airways - Airways defense mechanisms (dogs)
** P50HL-14217-08 0048 Specialized center of research in thrombosis - Fibrinolysis section--Structural studies (human, animal)
** P50HL-14217-08 0062 Specialized center of research in thrombosis - Coagulation section--Factor VIII and Factor XII (human, cattle)
** P50HL-14230-07 0098 A/S SCOR--Lipids, atherosclerosis and thrombosis - Molecular properties of factor VIII (cattle, human, mice)
P50HL-14237-07 0001 Support for arteriosclerosis center - Role of apolipoproteins in lipoprotein catabolism (human, rats)
** P50HL-14237-07 0003 Support for arteriosclerosis center - Structure of lipoproteins and apolipoproteins (human, rabbits)
** R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
R01HL-14509-07 Hypertension--Chemistry and biophysics of angiotensin
R01HL-14938-06 Contractile proteins of heart muscle (dogs, rabbits)
** P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
P50HL-15062-07 0007 Study of lipoproteins, artery wall, and atherosclerosis - Physical chemistry of lipid-protein interaction (human)
P50HL-15062-07 0009 Study of lipoproteins, artery wall, and atherosclerosis - Plasma lipoprotein biosynthesis (Rhesus monkeys)
P50HL-15062-07 0013 Study of lipoproteins, artery wall, and atherosclerosis - Radioimmunoassay of apolipoproteins (human, monkeys)
P60HL-15157-07 0009 Comprehensive center for sickle cell disease - Red cell membrane alterations during sickling (human)
P60HL-15157-07 0011 Comprehensive center for sickle cell disease - Development of specific anti-sickling compound (human)
P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
** R01HL-15308-07 Assays for peptides of lipoproteins (human)
** R01HL-15427-06 Secretion of plasma lipoproteins (rats)
** R01HL-15535-06 Structure and function of human plasmin
P01HL-15596-05 0002 Coagulation, fibrinolysis, hemostasis and hepatitis - Radioimmunoassay of fibrinogen and fibrin derivatives (human)
R01HL-15679-06 Heart and smooth muscle contractile protein (swine, cattle, rabbits, chickens)
R01HL-15793-06 Molecular aspects of erythrocyte membrane resealing (human)
R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
P01HL-15835-06 0001 Study of muscles related to heart disease - Control of contraction-relaxation of heart and muscle (rabbits, chickens)
** P01HL-15835-06 0006 Study of muscles related to heart disease - Ultrastructural and chemical studies of muscle (animals)
R01HL-15887-05 Enzymes of blood coagulation and fibrinolysis (human)
** R01HL-15958-06 X-ray diffraction analysis of thrombin and neurotoxin
R01HL-15965-06 Experimental atherosclerosis and elastin metabolism (chicks)
P60HL-16005-05 0013 Comprehensive sickle cell center - Study of regulation of erythropoiesis in vitro (human, rat, hamster, rabbit)
** R01HL-16059-06 Structure and function of serum lipoproteins (cattle, human)
R01HL-16087-05 Structural and dynamic study of model heme complexes (yeast)
R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
P01HL-16607-05 0005 Calcium ion and control of cardiovascular function - Chemical modifications of the sarcoplasmic reticulum membranes (rabbits)
R01HL-16678-03 Fluorescent probe studies of heart muscle proteins (rabbit, dog)
R01HL-16891-05 The folding of hemoglobin
** R01HL-17194-03 Comparison of two inherited forms of alpha-1-antitrypsin (human)
** P60HL-17265-04 0002 Community blood resource center support - Research--Human factor VIII
** P60HL-17265-04 0003 Community blood resource center support - Research--Human factor IX--Role in intrinsic clotting (also baboons, dogs)
P60HL-17269-04 0001 National heart and blood vessel research and demonstration center - Atherosclerosis--Arterial pathology and plasma lipids (human)
** P60HL-17269-04 0013 National heart and blood vessel research and demonstration center - Peptide synthesis laboratory (human)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-17411-04 Molecular studies of red blood cell spectrin (human)
M P01HL-17419-04 Studies on mechanisms of hemostasis
** P01HL-17419-04 0001 Studies on mechanisms of hemostasis - Structure and metabolism of fibrinogen (human)
P01HL-17419-04 0006 Studies on mechanisms of hemostasis - Effect of hormones, drugs and other agents on fibrinogen synthesis (chick)
** P01HL-17419-04 0007 Studies on mechanisms of hemostasis - Structural analysis of ordered forms of fibrinogen (human, cattle)
** R01HL-17463-03 Composition and structure of plasma lipoproteins (human, rabbits)
R01HL-17494-07 Mechanism of ligand binding to hemoglobin (human)
R01HL-17525-03 Molecular basis of collagen-platelet interaction (human, rat)
** R01HL-17551-04 Biosynthesis and metabolism of procollagen (human, monkeys, mice)
P50HL-17665-04 0011 Study of ischemic heart disease - Development of new methods for the determination of infarct size (dog, human)
R01HL-17783-04 Complex carbohydrates--Structure, function, synthesis (swine)
R01HL-17828-04 Kinetic studies of hemerythrin reactions (marine worms)
R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
R01HL-17896-03 Dehydropeptide renin substrates
R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
R01HL-17995-04 Cellular synthesis and release of mucopolysaccharides (rabbits)
R01HL-18179-03 Heart, platelet, and muscle myosins and actomyosins (cattle)
R01HL-18226-04 Mechanism of oxygen supply to tissue (human, animals)
R01HL-18527-03 Subcellular response of heart to functional overload (hamsters, rats)
** R01HL-18533-03 Microcrystalline and crystalline fibrinogen (cattle, bacteria)
** R01HL-18553-03 Membrane defects in familial hypercholesteremia (human)
M P01HL-18574-03 Lipoprotein methodology and biomedical applications
P01HL-18574-03 0001 Lipoprotein methodology and biomedical applications - Ultracentrifugal and electrophoretic lipoprotein methodology--Applications
** P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
** P01HL-18574-03 0005 Lipoprotein methodology and biomedical applications - Structure and function of lipoproteins
** P01HL-18577-03 0001 Lipoproteins--Cell surface interactions - Structural studies of serum lipoproteins in man and dogs
** R01HL-18619-03 Transferrin iron binding and transport properties (chicken, rabbit, human)
** R01HL-18746-02 Chemical studies on proteolipid apoproteins (cattle)
P50HL-18828-03 0001 Specialized center of research in thrombosis - Membrane biology and hemostasis (human)
P50HL-18828-03 0002 Specialized center of research in thrombosis - Endothelial cell biology (human, guinea pig)
R01HL-18918-03 Characterization of lung elastins (rat, rabbit, chicken, Rhesus)
R01HL-18931-02 Lung elastic tissue characteristics (swine, human)
P50HL-19157-02 0007 Studies in cystic fibrosis and bronchiolitis - Analysis of cystic fibrosis factors (human)
P50HL-19160-02 0001 Mucus abnormality in cystic fibrosis - Regulation of respiratory secretions (rat, human)
** P50HL-19185-02 0002 Pulmonary SCOR--Neonatal respiratory distress syndromes - Biochemistry, ultrastructure--Pulmonary surface active material (human, animal)
P50HL-19187-02 0002 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Alterations in surface active material (monkeys)
P50HL-19187-02 0004 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Surface active material, lamellar bodies (mice, rats)
** P50HL-19190-02 0005 Pulmonary SCOR--Pathophysiology, management of IRDS - Glycoproteins in mucous secretions (human, cattle)
R01HL-19459-03 Dynamics of atherogenesis and lipoprotein formation (human, rabbit)
** R01HL-19481-03 High-field NMR studies of respiratory proteins (human, horse, fish, microbes)
R01HL-19488-03 Picosecond laser studies of heme-proteins
R01HL-19491-03 Mechanism of iron storage and mobilization by ferritin (horse)
R01HL-19767-01 Pathochemistry of fibrinogen (humans)
R01HL-19982-02 Blood coagulation--Protein-metal ion-lipid interactions
R01HL-20092-02 Structural and biological properties of fibrinogen (human, rabbits)
** R01HL-20114-02 Collagen-platelet interaction and human aorta collagen (human)
R01HL-20300-02 Histone H5 and avian erythropoiesis (chickens, rabbits)
R01HL-20317-02 Procoagulant lipoproteins--Biochemistry and bioactivity (goats, rabbits)
R01HL-20319-02 Assembly, structure and interactions of fibrin (human)
** R01HL-20391-03 Polydisperse LDL--Structure, metabolism and function (human)
R01HL-20464-01 Regulation of cardiac and skeletal muscle contraction (mammals)
R01HL-20471-03 Atherosclerosis and diabetes mellitus (human)
R01HL-20517-03 Diabetes, somatotropin, factor VIII and atherosclerosis (human, animal)
** R01HL-20520-03 Protein modification--The key to diabetic sequelae (human, animal)
** R01HL-20546-02 Chemical analysis of human arterial elastin
R01HL-20547-02 Glycoproteins in pulmonary alveolar proteinosis (human)
** R01HL-20712-02 Characterization of the B proteins of serum lipoproteins (human)
R01HL-20882-02 Interactions of plasma lipoproteins with erythrocytes (Rhesus, human)
R01HL-20954-02 Hyperlipoproteinemia (rats, human)
** R01HL-21170-01 Molecular structure of human serum transferrin
R23HL-21247-02 Purification of renal renin (human)
** R01HL-21379-01 Structure of factor VIII-Von Willebrand protein (human)
** R23HL-21413-02 Structure and function of platelet calcium-binding protein (human)
R23HL-21504-02 Collagen synthesis in pulmonary fibrosis cells (human)
** R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)
R01HL-21592-01 Lipoproteins and coagulation factors in atherosclerosis (pigeons)
** R01HL-21612-02 Biochemistry of lung proteoglycans (human, rabbits)
** R01HL-21617-02 Biochemistry of lung proteoglycans (rabbits, cattle)
** R01HL-21622-02 Structure and interactions of lung proteoglycans (cattle)
** R01HL-21641-02 Structural studies of lung proteoglycans (pigs, cattle, rabbits)
** R01HL-21644-01 Fibronectin and related glycoproteins (human, rodents)
R01HL-21649-01 Biochemistry of lung proteoglycans (mammals)
R23HL-21663-01 Regulation of collagen biosynthesis (chick, embryo)
R01HL-21665-01 Collagen polymorphism and arterial structure (monkeys, guinea pigs)
R01HL-21676-02 Purification and properties of erythropoietin (human)
** R01HL-21683-02 Purification of erythropoietin (human)
** R01HL-21686-02 Purification of erythropoietin (human)
R01HL-21692-02 Purification of erythropoietin (human)
** R01HL-21701-02 Purification of erythropoietin (human)
R01HL-21757-01 Elastin structure--DNA breathing--Hemoglobin S gelation
R01HL-21791-01 Precipitation of proteins with poly (ethylene glycol) (human)
** R01HL-21845-01 Human red cell membrane--Structure and function
R01HL-22052-01 Organization of free cholesterol in serum lipoproteins (human, dogs)
R01HL-22081-20 The mechanism of collagen formation (human, cattle)
R01HL-22194-02 Allosteric function of platelet contractile proteins (human)
** R01HL-22208-02 Elastin structure, fibrogenesis and disease (chickens, rabbits)
R01HL-22355-01 Purification, structure and function of factor VIII (human)
R01HL-22461-01 Cardiac tropomyosin and tropomyosin-actin interactions (rabbit)
R01HL-22471-01 Biochemistry of prothrombin quick (human)
R01HL-22583-02 Ultrastructural study of endothelium in thrombosis (human)
R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)
P01HL-22619-01 0005 Cellular mechanisms of heart failure - Molecular mechanism of regulation of cardiac muscle contraction (cattle)
** P01HL-22619-01 0011 Cellular mechanisms of heart failure - Reaction of lipoproteins and apolipoproteins with lipoprotein lipase (cattle)
P01HL-22619-01 0012 Cellular mechanisms of heart failure - Apolipoproteins in hypertriglyceridemia (human)
** P01HL-22619-01 9002 Cellular mechanisms of heart failure - Medicinal chemistry and clinical intervention
R01HL-22627-01 An inhibitor of platelet adhesion to artificial organs (human)
R01HL-22654-01 Molecular structure of sickle cell fibers (human)
R01HL-22983-01 Studies on the catabolism of plasma lipoproteins (rats)
** R01HL-22985-01 Properties and assembly of Z-disk proteins (human, other species)
** R01HL-23233-01 Pulmonary artery intermediate filament structure (cattle)
** R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)
R01HL-23994-01 Biochemical properties of human cardiac myosin
** N01HR-72923-01 Cystic fibrosis factor identification and quantification (human)

PROTEINS-PEPTIDES STRUCTURE, AMINO ACIDS SEQUENCE

R01HL-02212-23 Coagulation of blood (human)
R01HL-02558-22 Structure-function relationships in the heme proteins (human, cattle)
R01HL-02751-21 Function and metabolism of serum albumin (mammals, fish, amphibians)
P01HL-03174-23 0002 Mechanisms of acute vascular reaction to injury - Chemical structure, pathological significance of amyloid substance (human, mice)
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
R01HL-05949-18 Biochemistry of muscle contraction (rats, rabbits)
** P01HL-06350-17 0020 Hemostasis research program project - Structure and function of coagulant venom proteases
R01HL-07379-13 Structure and function of fibrinogen (human)
** R01HL-08299-16 Molecular biology of hemerythrin and hemocyanin (invertebrates)
R01HL-08399-15 Platelet injury in infections and allergic diseases (human)
R01HL-09234-13 Amino acids of contractile proteins of failing hearts (dogs, hamsters)
R01HL-10383-12 Physical-chemical studies of hemoglobins and erythrocyte (human)
** P01HL-11310-12 0098 Mechanisms of cardiovascular disease - Protein chemistry of thy-1 and related synaptosomal proteins (mice)
P01HL-11310-12 0099 Mechanisms of cardiovascular disease - Carbohydrate chemistry of thy-1 and related synaptosomal proteins
P01HL-11310-12 0104 Mechanisms of cardiovascular disease - Structure of connective tissue proteoglycans (rabbits)
P01HL-11310-12 0106 Mechanisms of cardiovascular disease - Biochemical characterization of the collagens in vascular tissue (cattle)
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
** R01HL-11963-10 Biochemistry of blood vessel formation and disease (swine)
R01HL-12585-10 Structural properties of malate dehydrogenase (swine)
** R01HL-13160-08 Human thrombin (also cattle)
P50HL-14153-07 0015 Johns Hopkins Lung Center--Chronic diseases of airways - Kinins and human lung
P50HL-14187-07 0012 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
P50HL-14192-08 0004 Specialized center of research in hypertension - Isolation and characterization of pure renin (swine, rats, human, rabbits)
P50HL-14217-08 0054 Specialized center of research in thrombosis - Coagulation section--Platelet aggregation (human, pig, rabbit, dog)
P50HL-14218-07 0006 Pulmonary SCOR--Newborn lung center - Biochemical characteristics of the lung in RDS (human, sheep)
P50HL-14236-05 0008 Prevention of premature arteriosclerosis - Lipoproteins of cell membranes (human)
P50HL-14237-07 0001 Support for arteriosclerosis center - Role of apolipoproteins in lipoprotein catabolism (human, rats)
P50HL-14237-07 0003 Support for arteriosclerosis center - Structure of lipoproteins and apolipoproteins (human, rabbits)
R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
** R01HL-14680-07 Specific enrichment of myoglobins for carbon 13 NMR (catacea)
R01HL-14778-10 Proteolytic enzymes and inhibitors in lung disease (mammals, human)
R01HL-14865-07 Biochemical studies on the pathogenesis of emphysema (human, rats)
P50HL-15061-07 0004 Response of lung to injury - Biochemical abnormalities in connective tissues (rats)
P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
R01HL-15125-07 Molecular pathology of genetic disorders in man
P60HL-15158-07 0014 Comprehensive sickle cell center - Mechanism of sickling in human and deer hemoglobins
P60HL-15160-07 0008 Center for sickle cell disease - Isocyanate derivatives and hemoglobin S association (human, rat)
P60HL-15162-07 0017 Comprehensive sickle cell center - Hemoglobin, erythrocytes and sickle cell anemia (human, rabbit)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-15389-07 0014 Pulmonary SCOR--Hypersensitivity pneumonitis Fractionation and characterization of pigeon antigens
P50HL-15389-07 0015 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of thermophilic Actinomycete antigens
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)
R01HL-15474-06 Structure and function of the antihemophilic factor (human, cattle)
P01HL-15486-06 0005 Studies on thrombosis - Isolation and characterization of PF4 antigens (rabbits)
R01HL-15535-06 Structure and function of human plasmin
** P01HL-15596-05 0008 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of antihemophilic factor (human)
R01HL-15615-06 Structure-function studies of human factor VIII/vWF
P01HL-15832-06 0009 Chemical-structural predispositions to lung injury - Immunology--Enzyme degradation products of human lung elastin and microfibril
P01HL-15832-06 0010 Chemical-structural predispositions to lung injury - Kinin generating systems in pulmonary disease (human, animals)
R01HL-15892-05 Inhibitors of proteinases (human, cattle, swine)
** R01HL-16150-05 Primary structure of prothrombin (cattle, human)
R01HL-16166-05 Structure of alpha-1-antitrypsin in relation to emphysema (human)
R01HL-16233-05 Molecular cardiology of MOP-induced left ventricular failure (dogs)
** R01HL-16238-05 Protein structure in coagulation and fibrinolysis (human)
P01HL-16251-06 0002 Membrane-bound enzymes in heart and other tissues - Structural basis of regulation of cardiac succinate dehydrogenase
R01HL-16318-21 Biochemistry and pharmacology of Na-K transport
R01HL-16320-05 Vasoactive peptides which stimulate smooth muscles (rats, human)
R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
R01HL-16628-05 Regulation of lipid metabolism (rats)
R01HL-16633-04 Chemistry and biology of factor IX activator (human, mice, rats)
R01HL-16637-04 Development and regression of cardiac hypertrophy (rats)
R01HL-16647-05 Studies on the control of sickle cell crisis (human)
R01HL-16686-04 Properties of cytochrome oxidase (cattle, bacteria)
P01HL-16833-04 0001 Hemoglobin and red cell system in hemoglobinopathies - Motility, association and ligand binding in hemoglobin--Hydrogen exchange
R01HL-17194-03 Comparison of two inherited forms of alpha-1-antitrypsin (human)
P60HL-17269-04 0009 National heart and blood vessel research and demonstration center - Physical methods laboratory (high density lipoproteins)
** P60HL-17269-04 0011 National heart and blood vessel research and demonstration center - Lipoprotein structure laboratory (human)
P60HL-17269-04 0013 National heart and blood vessel research and demonstration center - Peptide synthesis laboratory (human)
P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
P01HL-17382-05 0003 Chemical mediators of acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
P01HL-17419-04 0001 Studies on mechanisms of hemostasis - Structure and metabolism of fibrinogen (human)
** P01HL-17812-04 0001 Thrombosis and plasma proteins - Thrombosis and plasma proteins (cattle, guinea pigs)
** R01HL-17879-04 Molecular structure of the ouabain sensitive ATPase (dogs)
** R01HL-17896-03 Dehydropeptide renin substrates
R01HL-18435-03 Properties of thrombin and Ac-globulin (human, animals)
** P01HL-18576-03 0002 Thrombosis research program project - Molecular basis of fibrin formation (human, cattle, lamprey)
P01HL-18576-03 0011 Thrombosis research program project - Proteolysis and platelet function (human, cattle, rabbits)
P01HL-18576-03 0012 Thrombosis research program project - Synthetic anticoagulant and thrombolytic agents (dogs)
M P01HL-18577-03 Lipoproteins--Cell surface interactions
** P01HL-18577-03 0004 Lipoproteins--Cell surface interactions - Analysis and chemical modification of proteins in lipid transport (human, dogs)
P01HL-18577-03 0005 Lipoproteins--Cell surface interactions - Chemical synthesis of apolipoproteins and apoliprotein fragments
** P01HL-18577-03 0011 Lipoproteins--Cell surface interactions - Core laboratory 4
R01HL-18612-03 Thin filament control of heart contraction (cattle)
R01HL-18634-03 Quarternary structure of erythro and chlorocruorins (invertebrates)
R01HL-18714-04 Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal)
R01HL-18746-02 Chemical studies on proteolipid apoproteins (cattle)
P50HL-18828-03 0003 Specialized center of research in thrombosis - Structure and function of plasma coagulation inhibitors (human)
P01HL-18974-03 0011 Experimental neurogenic hypertension program - Biochemistry and regulation of brain tryptophane hydroxylase (rats)
** R01HL-19084-03 Structure and function of serum lipoproteins (human)
P01HL-19259-03 0001 Digoxin-specific antibody in human therapy - Primary structure of monoclonal antibodies (rabbits)
P01HL-19259-03 0002 Digoxin-specific antibody in human therapy - Chemical semi-synthesis of digoxin-specific antibody (rabbits)
P01HL-19717-02 0001 Response of the lung to injury - Lung elastic tissue (animals)
R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
R01HL-20500-02 Diabetic human brain microvascular basement membrane (human)
R01HL-20794-02 Prostaglandin synthesis in human platelets (also in sheep, rabbit)
P01HL-20984-02 0004 Cellular mechanisms in cardiac hypertrophy - Myofibril accumulation in cardiac and vascular muscle cells in hypertrophy
P50HL-21006-02 0003 Specialized center of research in arteriosclerosis - Transport of vitamin A in plasma (human, rat)
R23HL-21208-02 Structure-function relationships of human factor VIII
R23HL-21369-02 Tracheal mucin synthesis in experimental bronchitis (rats)
** R01HL-21471-02 Structure-function studies on actin and myosin (human, protozoa, rabbits, cattle)
R01HL-21480-01 Structure, source and functions of alveolar glycoproteins (human, rabbits)
R01HL-21617-02 Biochemistry of lung proteoglycans (rabbits, cattle)
R01HL-21622-02 Structure and interactions of lung proteoglycans (cattle)
R01HL-21683-02 Purification of erythropoietin (human)
R01HL-21686-02 Purification of erythropoietin (human)
R01HL-21701-02 Purification of erythropoietin (human)
R01HL-21831-05 Determining sequences from hemoglobin messenger RNA (mice, chickens, rabbits)
R23HL-21894-01 Pulmonary angiotensin converting enzyme (cattle)
R01HL-21975-01 Studies on normal and abnormal factor IX (human, dogs, cows)
R01HL-22115-02 Lipid-mobilization and diabetic atherosclerosis (human)
R01HL-22119-01 Biochemistry of platelet function in thrombosis and cell growth (rabbits)
** R01HL-22174-01 Assembly of membranes in heart and yeast mitochondria
R01HL-22208-02 Elastin structure, fibrogenesis and disease (chickens, rabbits)
R01HL-22288-01 Renin and precursors--Structure and function (mice)
R23HL-22799-01 Interaction of the complement and coagulation systems (monkeys)
R01HL-22845-01 Response of cardiac myosin to hypertrophic stress (rabbits)
R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)
R01HL-23200-01 Isolation of CA binding proteins from erythrocytes (human)
R01HL-23233-01 Pulmonary artery intermediate filament structure (cattle)
N01HR-72922-01 Cystic fribrosis factor identication and quantification (human)
N01HR-72923-01 Cystic fibrosis factor identification and quantification (human)

PROTEINS RECONSTITUTION

SEE ALSO ENZYME RECONSTITUTION
P50HL-14237-07 0004 Support for arteriosclerosis center - Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys)
P50HL-15062-07 0001 Study of lipoproteins, artery wall, and atherosclerosis - Structure and molecular interactions of serum lipoproteins (human, monkey)
R01HL-16891-05 The folding of hemoglobin
P60HL-17269-04 0009 National heart and blood vessel research and demonstration center - Physical methods laboratory (high density lipoproteins)
P60HL-17269-04 0011 National heart and blood vessel research and demonstration center - Lipoprotein structure laboratory (human)
P60HL-17269-04 0013 National heart and blood vessel research and demonstration center - Peptide synthesis laboratory (human)
P60HL-17269-04 0017 National heart and blood vessel research and demonstration center - Cell membrane (dogs, rabbits)
R01HL-20300-02 Histone H5 and avian erythropoiesis (chickens, rabbits)
R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)

PROTEINS STRUCTURE

SEE PROTEINS-PEPTIDES STRUCTURE

PROTEINS TRANSPORT

SEE ALSO PROTEIN BINDING
R01HL-00082-30 Transmembrane movements (barnacles, frogs, rats)
** P01HL-09011-15 0015 A research and resource program in blood - Regulation of synthesis and transport of diverse proteins in liver (rats)
** P01HL-09011-15 0019 A research and resource program in blood - The transport mechanism of mRNA (rat, yeast, ascites cells)
P50HL-14197-07 0005 Support for center of research on arteriosclerosis - Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal)
P50HL-15062-07 0019 Study of lipoproteins, artery wall, and atherosclerosis - Factors regulating lipoprotein-smooth muscle cell interaction (monkey)
R01HL-16512-04 Lipoprotein metabolism and hormonal regulation (chickens)
R01HL-17898-03 Cell membranes and plasma lipoproteins (human, swine)
** R01HL-18692-03 Glycosaminoglycans and lipoproteins of human plasma
** R01HL-18736-03 Protein transport through arterial tissue (rabbits)
P50HL-19153-02 0004 SCOR--Pulmonary edemas--Etiology, pathogenesis - Physical mechanisms in lung transvascular transport--Math models (sheep)
M P50HL-19155-02 Pathophysiology of pulmonary edema
** P50HL-19155-02 0002 Pathophysiology of pulmonary edema - Non-invasive measurement of protein turnover in human lung (also sheep)
** P50HL-19155-02 0004 Pathophysiology of pulmonary edema - Physical and chemical effects of multiple pulmonary emboli (sheep)
** P50HL-19155-02 0005 Pathophysiology of pulmonary edema - Protein exchange sites and lymph protein concentration in lung (mice, sheep)
** P50HL-19185-02 0004 Pulmonary SCOR--Neonatal respiratory distress syndromes - Fluid and protein transport in fetal and newborn lung (sheep, rabbits)
R01HL-19316-03 Study of glomerular permeability (fish, turtle, frog, chordates, crustacea)
** R01HL-20061-02 Serum lipoproteins and cell cholesterol metabolism (rats, human)
R01HL-20391-03 Polydisperse LDL--Structure, metabolism and function (human)
R01HL-20460-03 Aortic histamine synthesis in diabetes (rat)
R01HL-21076-02 Lung fluid, protein exchange after hemorrhagic shock (sheep)
** R01HL-21176-02 Phospholipid exchange proteins in lung tissue (lambs)
R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
** R01HL-22333-01 Cellular basis of small airways function (rats)
R01HL-22729-01 Intracellular degradation of newly synthesized collagen (human, chick, rabbit)
** R01HL-22924-01 The airway mucosal barrier (guinea pigs)
** R23HL-22933-01 Transvascular fluid and protein exchange in the lung (sheep)

PROTEINURIA

SEE ALSO HEMOPROTEINS, MYOGLOBINURIA
R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)
R01HL-16490-04 Structural basis of nephron filtration (rats, rabbits)
R01HL-16603-05 Human and experimental renal diseases (animals)

PROTEOGLYCANS

SEE ALSO GLYCOPROTEINS
SEE ALSO HEMOPROTEINS, HAPTOGLOBINS
SEE ALSO METALLOPROTEINS, TRANSFERRIN
SEE ALSO POLYSACCHARIDES, GLYCOSAMINOGLYCANS, SULFOMUCOPOLYSACCHARIDES
R01HL-01803-23 0014 Arteriosclerosis, glomerulonephritis, rheumatic fever - Regenerated endothelium on lipid accumulation in arterial wall (rabbit)
R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo--Capillary membrane in normal pulmonary hypertensive lung
P01HL-11310-12 0103 Mechanisms of cardiovascular disease - Heparin--Metabolism and function
** P01HL-11310-12 0104 Mechanisms of cardiovascular disease - Structure of connective tissue proteoglycans (rabbits)
R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
P50HL-15103-07 0014 A/S SCOR--Early natural history of arteriosclerosis - Biochemistry of atherosclerotic lesions (monkeys, human, cattle)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-15832-06 0001 Chemical-structural predispositions to lung injury - Chemical composition of lung connective tissue proteins (human, animals)
R01HL-16219-05 Mechanisms of atherogenesis in chronic uremia (human, rats)
** R01HL-17995-04 Cellular synthesis and release of mucopolysaccharides (rabbits)
** R01HL-18625-03 Organization of arterial ground substance (cattle)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
** P01HL-19717-02 0006 Response of the lung to injury - Glycosaminoglycans and proteoglycans of the lung (human, rats, hamsters)
** P01HL-19717-02 0010 Response of the lung to injury - Proteoglycans in lung function and structure (hamsters)
R01HL-20635-03 Factors in lung development (rat and chick embryo)
R01HL-21095-02 Enzymes of M tuberculosis and obstructive lung disease (human, rodents)
** R01HL-21612-02 Biochemistry of lung proteoglycans (human, rabbits)
R01HL-21615-01 Structural studies of lung heparinoid polysaccharides (cattle)
** R01HL-21617-02 Biochemistry of lung proteoglycans (rabbits, cattle)
** R01HL-21622-02 Structure and interactions of lung proteoglycans (cattle)
** R01HL-21626-01 Proteoglycans of animal lung parenchyma (cattle, pigs, rabbits)
** R01HL-21641-02 Structural studies of lung proteoglycans (pigs, cattle, rabbits)
** R01HL-21646-02 Biosynthesis of fractionated proteoglycans of lung (rabbits)
** R01HL-21649-01 Biochemistry of lung proteoglycans (mammals)
R01HL-22119-01 Biochemistry of platelet function in thrombosis and cell growth (rabbits)

PROTEOGLYCANS, MUCIN
R01HL-14271-07 Physico-chemical properties of tracheal mucus (dogs, frogs)
** R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
** R01HL-20868-02 Regulation of glycoprotein biosynthesis in lung (swine)
** R23HL-21369-02 Tracheal mucin synthesis in experimental bronchitis (rats)

PROTEOLIPIDS
SEE ALSO LIPOPROTEINS
** R01HL-18746-02 Chemical studies on proteolipid apoproteins (cattle)

PROTEOLYSIS
R01HL-01662-25 Equilibria in the fibrinogen-fibrin conversion (human, cattle)
R01HL-12820-09 In vitro regulation of prothrombin activation
R01HL-13160-08 Human thrombin (also cattle)
P01HL-13262-07 0015 Arterial wall in atherosclerosis - Crosslinkage biosynthesis in aortic elastin and collagen (animals)
P50HL-14217-08 0062 Specialized center of research in thrombosis - Coagulation section--Factor VIII and Factor XII (human, cattle)
R01HL-15615-06 Structure-function studies of human factor VIII/vWF
R01HL-15616-04 Platelet membrane proteins in aggregation (human)
R01HL-15793-06 Molecular aspects of erythrocyte membrane resealing (human)
M P01HL-15832-06 Chemical-structural predispositions to lung injury
** P01HL-15832-06 0004 Chemical-structural predispositions to lung injury - Proteolytic activity leucocytes in patients with obstructive lung disease
R01HL-15965-06 Experimental atherosclerosis and elastin metabolism (chicks)
R01HL-16725-03 Physiological regulation of pulmonary surfactant (dogs, rats)
** P50HL-17665-04 0029 Study of ischemic heart disease - Myocardial protein synthesis and degradation in low oxygen states (rabbit, dog)
** R01HL-18258-04 Regulation of protein degradation in heart (rats)
R01HL-18435-03 Properties of thrombin and Ac-globulin (human, animals)
** P01HL-18576-03 0011 Thrombosis research program project - Proteolysis and platelet function (human, cattle, rabbits)
R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
P50HL-19190-02 0004 Pulmonary SCOR--Pathophysiology, management of IRDS - Type II cells--Control of protein turnover (rabbit)
R01HL-19648-03 Myocardial protein degradation (dogs, rabbits)
** P01HL-19717-02 0003 Response of the lung to injury - The role of elastolysis in emphysema (hamsters, rabbits)
** P01HL-19717-02 0005 Response of the lung to injury - Studies on proteolysis and lung disease (human, animals)
R01HL-20344-02 Regulation of protein turnover in lung tissue (rats)
R01HL-20666-02 Cell biology of platelet preservation (human)
R01HL-21543-02 Structure function relation of blood clotting proteins (rabbits)
R01HL-21544-02 Proteins of coagulation and Hageman factor pathways (human, goats)
R23HL-21730-01 vWagII-A new vWD deficient antigen (human)
** R01HL-22729-01 Intracellular degradation of newly synthesized collagen (human, chick, rabbit)
R01HL-22955-01 inetics of prothrombin activation
** R01HL-22980-01 Kinetic and mechanistic studies of blood coagulation (human, cattle)
R01HL-22996-01 Venom proteases--Action on plasma protease inhibitors (human)
R01HL-24021-02 Erythocyte membrane sulfhydrls and Rh activity (human)

PROTEOLYTIC AGENTS (NONENZYMATIC)
P01HL-15596-05 0003 Coagulation, fibrinolysis, hemostasis and hepatitis - Plasmin degraded fibrinogen fractions (human)

PROTEOLYTIC ENZYMES
SEE PROTEASES AND PEPTIDASES

PROTEUS
SEE BACTERIA, ENTEROBACTERIACEAE, PROTEUS*

PROTHROMBIN
SEE BLOOD COAGULATION, PROTHROMBIN

PROTHROMBIN TIME
SEE BLOOD COAGULATION TESTS, PROTHROMBIN TIME*

PROTON ACCELERATORS
SEE RADIATION, PARTICLE ACCELERATORS

PROTON TRANSPORT
SEE CHEMICAL TRANSFER, HYDROGEN TRANSPORT

PROTOPORPHYRIA
SEE METABOLIC DISORDERS INBORN, PORPHYRIA, PROTOPORPHYRIA

PROTOZOA, MASTIGOPHORA, TRYPANOSOMA CRUZI
R01HL-20895-03 0006 Cineangiographic studies of cardiovascular system - Cardiomyopathy--Hemodynamic, radiologic, morphologic abnormalities (dog, rabbit)

PROWER FACTOR
SEE BLOOD COAGULATION, FACTOR X

PSEUDOCHOLINESTERASE
SEE CHOLINE ESTERASES

PSEUDOCHOLESTANE-3BETA-OL
SEE CHOLESTANE SERIES 5-BETA, COPROSTEROL

PSEUDOHEMOPHILIA, VASCULAR
SEE BLOOD COAGULATION DISORDERS, VON WILLEBRAND'S DISEASE

PSEUDOMONAS
SEE BACTERIA, PSEUDOMONADALES, PSEUDOMONAS*

PSEUDOMONAS AERUGINOSA
SEE BACTERIA, PSEUDOMONADALES, PSEUDOMONAS AERUGINOSA*

PSEUDOPLAGUE VIRUS AVIAN
SEE VIRUSES, PARAMYXOVIRUSES, NEWCASTLE DISEASE VIRUS

PSITTACOSIS AGENT
SEE CHLAMYDIA, PSITTACOSIS AGENT

PSITTACOSIS-LYMPHOGRANULOMA-TRACHOMA GROUP AGENT
SEE CHLAMYDIA

PSYCHIATRIC AIDS
SEE MENTAL HEALTH PERSONNEL ADJUNCT

PSYCHIC ACTIVITY LEVEL
SEE ALSO NEUROLOGIC MANIFESTATIONS, UNCONSCIOUSNESS
SEE ALSO PSYCHOLOGY, COGNITION, CONSCIOUSNESS
SEE ALSO PSYCHOLOGY, MOTIVATION
SEE ALSO PSYCHOLOGY, PERFORMANCE
** P01HL-10539-12 0023 Pathophysiology of circulation - The relaxation response and therapy of disease states (human)
P01HL-10539-12 0031 Pathophysiology of circulation - Post myocardial infarction care--Psychological aspects (human)
** P01HL-10539-12 0065 Pathophysiology of circulation - Physiologic correlates of relaxation (human)
** P01HL-10539-12 0066 Pathophysiology of circulation - Usefulness of relaxation response in industrial settings
R01HL-19568-03 Hypertension--Analysis of drug and behavioral therapies (human)

PSYCHIC ACTIVITY LEVEL, AROUSAL
P01HL-08682-15 0006 Regulation of the cardiovascular system - Cardiovascular studies of mammalian hibernators (sciuromorpha)
P01HL-08682-15 0031 Regulation of the cardiovascular system - Cardiac electrophysiology in hibernation (ground squirrel, marmot)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-20800-17 Neural basis of respiratory and vasomotor activity (cats)
** R01HL-21318-02 Mechanisms of emotions' asthma triggering effect (human)
R01HL-22809-01 Coronary-prone behavior and cardiovascular reactivity (human)

PSYCHIC ACTIVITY LEVEL, ATTENTION
P01HL-08899-14 0066 Tolerance to respiratory gases in health and disease - Neurophysiological effects of inert gases in man
P01HL-08899-14 0067 Tolerance to respiratory gases in health and disease - Inert gas influences upon visual function in man

PSYCHIC ACTIVITY LEVEL, RELAXATION
R01HL-18814-03 Behavioral tactics for clinical cardiac control (human)
R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)

PSYCHIC ACTIVITY LEVEL, SLEEP
SEE ALSO HEALTH, PHYSICAL ACTIVITY, REST
SEE ALSO NEUROLOGIC MANIFESTATIONS, SLEEP DISORDERS
SEE ALSO SENSORY DEPRESSION, ELECTRONARCOSIS
R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
** P01HL-06835-17 0044 Cardiovascular disease - Baroreceptors in control of blood pressure during sleep (dogs)
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
R01HL-08789-11 Respiratory muscles and ventilatory control in man (and dogs)
P01HL-08899-14 0033 Tolerance to respiratory gases in health and disease - Acid-base related influences of hypoxia (human)
P01HL-08899-14 0041 Tolerance to respiratory gases in health and disease - Blood gas transport and brain circulatory control (human)
P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14985-07 0013 Adaptation to hypoxia - Chronic mountain sickness (men)
R01HL-16022-05 Determinants of the ventilatory response to hypoxia (goats, cats)
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
** R01HL-18007-05 Neural mechanisms controling motor act of breathing (cats, human)
R01HL-18798-04 0003 Nervous and ionic factors in sudden cardiac death - Left stellectomy in the prevention of sudden death (dogs)
P50HL-19187-02 0011 Pediatric pulmonary SCOR--Hyaline membrane disease - Effects of hypoxia and hypercapnia on developing nervous system (monkey, human)
R01HL-19864-03 0003 Blood pressure of children and young adults - Heart rate and blood pressure--Consistency in infancy (human)
R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
** R01HL-21257-02 Breathing in sleep--Airway control and blood gases (cats)
R01HL-22418-01 Neural control of cardio-respiratory function (cats)

PSYCHIC ACTIVITY LEVEL, TROPHOTROPIC STATE
SEE ALSO PSYCHOLOGY, CONDITIONING, AUTOGENIC AND INTERNAL CONTROL
R01HL-21323-02 Raynaud's disease and temperature self-regulation (human)

PSYCHIC ACTIVITY LEVEL, TROPHOTROPIC STATE, MEDITATION
P01HL-10539-12 0023 Pathophysiology of circulation - The relaxation response and therapy of disease states (human)
P01HL-10539-12 0064 Pathophysiology of circulation - Exercise physiology and pathophysiology (human)
P01HL-10539-12 0065 Pathophysiology of circulation - Physiologic correlates of relaxation (human)
P01HL-10539-12 0066 Pathophysiology of circulation - Usefulness of relaxation response in industrial settings
** P50HL-18323-04 0047 SCOR hypertension center - Transcendental meditation and self-hypnosis--Hypertension treatment (human)
R01HL-19844-02 Behavioral control of essential hypertension (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)

PSYCHIC ENERGIZERS

SEE PSYCHOPHARMACOLOGICAL AGENTS, ANTIDEPRESSANTS

PSYCHOBIOLOGY, PSYCHOPHYSIOLOGY

SEE ALSO BRAIN INTERHEMISPHERIC ACTIVITY, CEREBRAL DOMINANCE
SEE ALSO ENVIRONMENT, ORIENTATION
SEE ALSO INFORMATION PROCESSING AND CONTROL (NEURAL)
SEE ALSO NEUROPHYSIOLOGY, REFLEX
SEE ALSO NEUROPSYCHOLOGY (GENERAL)*
SEE ALSO NUTRIENT INTAKE ACTIVITY (GENERAL)
SEE ALSO PSYCHIC ACTIVITY LEVEL
SEE ALSO PSYCHOLOGIC STRESS
SEE ALSO PSYCHOMOTOR FUNCTION
SEE ALSO PSYCHOPHYSIOLOGIC DISORDERS
SEE ALSO SENSORY-PERCEPTUAL PROCESSES, SENSORY MECHANISMS (GENERAL)

** R01HL-03429-18 Central nervous system and coronary heart disease (human)
** R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R01HL-19257-03 Cardiovascular adjustment to behavioral stress (dog)
** R01HL-19567-03 Impact of emotion on coronary arteries (human)
R01HL-19568-03 Hypertension--Analysis of drug and behavioral therapies (human)
R01HL-19680-01 Cardiac correlates of behavioral stress in animals (dog)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
** R01HL-19844-02 Behavioral control of essential hypertension (human)
R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
** R01HL-20034-03 Hypertension--Psychophysiologic and genetic precursors (human)
** R01HL-20364-01 Episodic hypertension associated with human behavior (air traffic controllers)
** R01HL-20384-09 Social stimulation, RNA and cardiovascular disease (animals)
R01HL-20637-02 Recovery after heart surgery--Bio-behavioral factors (human)
** R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
** R01HL-21319-02 Interpersonal stress and coronary-prone behavior (human)
** R01HL-21426-02 Learned heart rate control (human)
** R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)

PSYCHOGENETICS-BEHAVIORAL GENETICS

P50HL-19362-02 0003 A/S SCOR--Atherosclerosis in nonhuman primates - Heritability of characters related to atherosclerosis (baboons)

PSYCHOLOGIC STRESS

SEE ALSO PSYCHOPHYSIOLOGIC DISORDERS
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
P01HL-10539-12 0031 Pathophysiology of circulation - Post myocardial infarction care--Psychological aspects (human)
P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
** R01HL-13454-08 Behavioral stress and cardiomyopathy (monkeys, cats)
R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
** R01HL-17580-04 The impact of stress on coronary heart disease (men)
R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
** R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
** P50HL-18318-03 0012 Pathogenesis and complications of hypertension - Behavioral factors in hypertension (human)
R25HL-18418-03 Role of a supporting partner in adherence (human)
R01HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-18783-04 Detection and control of ventricular premature beats (human)
** R01HL-18907-03 Objective evaluation early after MI and heart surgery (human)
** R01HL-18976-03 Blood pressure control--Relation to behavioral stress (human, dog)
** R01HL-19204-03 Environmental factors in hypertension (Rhesus monkeys)
** R01HL-19257-03 Cardiovascular adjustment to behavioral stress (dog)
** R01HL-19680-01 Cardiac correlates of behavioral stress in animals (dog)
R01HL-19869-03 Antecedents of adolescent hypertension (human)
** R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)
R01HL-20034-03 Hypertension--Psychophysiologic and genetic precursors (human)
R01HL-20124-02 Coronary risk factors (human)
R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)
R01HL-20384-09 Social stimulation, RNA and cardiovascular disease (animals)
R01HL-20655-02 Autonomic predictors of hypertension in children
** R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)
** R01HL-21319-02 Interpersonal stress and coronary-prone behavior (human)
R01HL-21427-02 Behavioral changes in post infarction patients
R18HL-21906-01 Stanford five city multifactor risk reduction study
R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)
R01HL-22378-01 Psyco-somatic predictors of CHD in adolescence (human)
R01HL-22472-01 Smoking risk-factor reduction--Maintenance strategies (human)
** R01HL-22514-01 Behavior patterns, stress, and catecholamines
R01HL-22740-01 Behavior and cardiovascular disease--Basic mechanisms (human)
R01HL-22809-01 Coronary-prone behavior and cardiovascular reactivity (human)
** R01HL-23078-01 Psychosocial stress and sudden coronary death (human)

PSYCHOLOGICAL ADAPTATION

R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)
R01HL-20655-02 Autonomic predictors of hypertension in children

PSYCHOLOGICAL ADAPTATION, COPING BEHAVIOR

SEE ALSO PSYCHOLOGY, DEFENSE MECHANISMS
P01HL-10539-12 0031 Pathophysiology of circulation - Post myocardial infarction care--Psychological aspects (human)
P60HL-17269-04 0042 National heart and blood vessel research and demonstration center - Social-psychological smoking deterrents in schools
P50HL-18318-03 0012 Pathogenesis and complications of hypertension - Behavioral factors in hypertension (human)
R25HL-18418-03 Role of a supporting partner in adherence (human)
R01HL-18976-03 Blood pressure control--Relation to behavioral stress (human, dog)
R01HL-21319-02 Interpersonal stress and coronary-prone behavior (human)
** R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)
** R01HL-22514-01 Behavior patterns, stress, and catecholamines

PSYCHOLOGICAL ADAPTATION, EMOTIONAL ADJUSTMENT

SEE ALSO PSYCHOLOGY SOCIAL, SOCIAL ADJUSTMENT
R01HL-15790-06 Follow-up study of acute coronary heart attacks (human)

PSYCHOLOGICAL IMPACT OF DISEASES OR MEDICAL PROCEDURES

SEE BEHAVIORAL MEDICINE

PSYCHOLOGICAL TESTS (GENERAL)*

SEE ALSO NEUROPSYCHOLOGICAL TESTS*
SEE ALSO PSYCHOMETRICS
P01HL-08899-14 0046 Tolerance to respiratory gases in health and disease - Studies in senile elderly individuals
R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)

PSYCHOLOGICAL TESTS, BEHAVIOR ASSESSMENT-MEASUREMENT*

SEE ALSO PSYCHOLOGY, BEHAVIOR PREDICTION
R01HL-03429-18 Central nervous system and coronary heart disease (human)
** R01HL-22021-01 Asthma in families-- Behavior analysis of family interaction pattern

PSYCHOLOGICAL TESTS, PERSONALITY ASSESSMENT-MEASUREMENT*

SEE ALSO PSYCHOLOGICAL TESTS (GENERAL)*
R01HL-21319-02 Interpersonal stress and coronary-prone behavior (human)
R01HL-21427-02 Behavioral changes in post infarction patients

PSYCHOLOGY, ATTITUDE TO HEALTH AND HEALTH PROBLEMS

P01HL-10539-12 0031 Pathophysiology of circulation - Post myocardial infarction care--Psychological aspects (human)
** P50HL-14236-05 0013 Prevention of premature arteriosclerosis - Patient compliance
P60HL-15157-07 0003 Comprehensive center for sickle cell disease - Public education
P60HL-15158-07 0009 Comprehensive sickle cell center - Counseling and social services
P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies--Dimensions, effectiveness
P60HL-15162-07 0010 Comprehensive sickle cell center - Core program--Community outreach and education program
P60HL-15162-07 0011 Comprehensive sickle cell center - Core program--Genetic counseling and diagnostic screening
P60HL-15168-07 0003 Comprehensive sickle cell disease center - Sickle cell education and training program
R01HL-15790-06 Follow-up study of acute coronary heart attacks (human)
P60HL-15996-06 0004 Cincinnati comprehensive sickle cell center - School adjustment of sickle cell patients
P60HL-15999-05 0004 Miami comprehensive sickle cell center - Education, screening and counseling
** R25HL-17056-01 Improving patient compliance through nursing action
P60HL-17269-04 0036 National heart and blood vessel research and demonstration center - Public education
P60HL-17292-04 0024 Vermont Lung Center - Education and media resources unit
** R25HL-18414-03 Hypertension--Family strategies for patient adherence
R25HL-18418-03 Role of a supporting partner in adherence (human)
R25HL-18424-03 Blood pressure education in an industrial setting (human)
R01HL-20637-02 Recovery after heart surgery--Bio-behavioral factors (human)
R01HL-20910-02 The alternative diet for coronary disease prevention (human)
** R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)
R23HL-22345-02 0001 Behavioral cardiovascular compliance strategies - Long term modification of dietary patterns (human)
** R23HL-22345-02 0002 Behavioral cardiovascular compliance strategies - Compliance with antihypertensive medication regimens (human)
R01HL-22380-01 Detroit hypertension control program
** R01HL-22472-01 Smoking risk-factor reduction--Maintenance strategies (human)
R01HL-22847-01 Test for adherence to diets rich in linoleic acid
R23HL-22947-01 Experimental systems to improve youth behavior (smoking prevention)
R01HL-23078-01 Psychosocial stress and sudden coronary death (human)
P60HL-23282-01 9001 Comprehensive hospital/community sickle cell center - Core--Institutionalization of education, screening and counseling
N01HR-72973-01 Health education and attitudes of family toward asthmatic children

PSYCHOLOGY, ATTITUDES (AND RELATED)

P50HL-18318-03 0012 Pathogenesis and complications of hypertension - Behavioral factors in hypertension (human)

PSYCHOLOGY, BEHAVIOR

SEE ALSO BEHAVIORAL SCIENCES (DEVELOPMENTAL) STUDY SECTION
SEE ALSO CHILD MENTAL DEVELOPMENT, CHILD BEHAVIOR
SEE ALSO FAMILY, MATERNAL BEHAVIOR
SEE ALSO NUTRIENT INTAKE ACTIVITY, DRINKING BEHAVIOR (WATER)
SEE ALSO NUTRIENT INTAKE ACTIVITY, FEEDING (EATING) BEHAVIOR
SEE ALSO PSYCHOLOGICAL ADAPTATION, COPING BEHAVIOR
SEE ALSO PSYCHOLOGY, EMOTIONS
SEE ALSO PSYCHOLOGY, PERFORMANCE
SEE ALSO PSYCHOLOGY, PERSONALITY
SEE ALSO PSYCHOLOGY SOCIAL, INTERPERSONAL RELATIONS
SEE ALSO PSYCHOLOGY SOCIAL, SOCIAL BEHAVIOR
R01HL-18589-03 Psychosocial factors and outcome in coronary disease (human)

PSYCHOLOGY, BEHAVIOR, AGGRESSION

SEE ALSO PSYCHOLOGY, BEHAVIOR, ESCAPE REACTION
R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)

PSYCHOLOGY, BEHAVIOR, ESCAPE REACTION

R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)

PSYCHOLOGY, BEHAVIOR, GOAL-STRIVING

** R01HL-22472-01 Smoking risk-factor reduction--Maintenance strategies (human)

PSYCHOLOGY, BEHAVIOR ANIMAL

SEE ALSO PSYCHOLOGY, BEHAVIOR, ESCAPE REACTION
R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
P50HL-19362-02 0003 A/S SCOR--Atherosclerosis in nonhuman primates - Heritability of characters related to atherosclerosis (baboons)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-19362-02 0005 A/S SCOR--Atherosclerosis in nonhuman primates - Hybridization to produce primate model of atherosclerosis (baboon, Rhesus)
** P50HL-19362-02 0007 A/S SCOR--Atherosclerosis in nonhuman primates - Behavior type, cigarette smoking and atherosclerosis (baboon)
** P50HL-19362-02 0014 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory- Behavior observation and manipulation (baboon)
R23HL-22747-01 Cardiodynamics and hypertension under cerebellar control (dogs)

PSYCHOLOGY, BEHAVIOR PREDICTION
SEE ALSO PSYCHOLOGICAL TESTS, BEHAVIOR ASSESSMENT-MEASUREMENT*
** R25HL-18406-03 Adherence to hypertensive medical regimens (human)
** R25HL-18414-03 Hypertension--Family strategies for patient adherence
** R25HL-18418-03 Role of a supporting partner in adherence (human)
** R25HL-18424-03 Blood pressure education in an industrial setting (human)

PSYCHOLOGY, BRAIN CONTROL
SEE ALSO BRAIN STIMULATORS ELECTRONIC
SEE ALSO PSYCHOLOGY, CONDITIONING, AUTOGENIC AND INTERNAL CONTROL
SEE ALSO PSYCHOTHERAPY, BEHAVIOR MODIFICATION
P01HL-06296-18 0007 Cardiovascular and pulmonary adaptation to stress - Cardiovascular control during isometric exercise (cats)

PSYCHOLOGY, COGNITION
SEE ALSO PSYCHOLOGY, LEARNING
SEE ALSO PSYCHOLOGY, PERFORMANCE
SEE ALSO SENSORY-PERCEPTUAL PROCESSES, PERCEPTION
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
P01HL-08899-14 0043 Tolerance to respiratory gases in health and disease - Oxygen effects upon CNS and sensory functions (human)
** P01HL-08899-14 0044 Tolerance to respiratory gases in health and disease - Influence of high oxygen pressures on cognition and performance
P01HL-08899-14 0045 Tolerance to respiratory gases in health and disease - Studies in normal subjects
P01HL-08899-14 0046 Tolerance to respiratory gases in health and disease - Studies in senile elderly individuals
P01HL-08899-14 0057 Tolerance to respiratory gases in health and disease - Studies of intermittent exposure in man
P01HL-08899-14 0065 Tolerance to respiratory gases in health and disease - Adaptation and effects of narcotic gases exposure (human)
** P01HL-08899-14 0066 Tolerance to respiratory gases in health and disease - Neurophysiological effects of inert gases in man
P01HL-08899-14 0067 Tolerance to respiratory gases in health and disease - Inert gas influences upon visual function in man
R01HL-20724-01 Behavioral consequences of hypertension (human)
** R01HL-22472-01 Smoking risk-factor reduction--Maintenance strategies (human)
R01HL-22740-01 Behavior and cardiovascular disease--Basic mechanisms (human)

PSYCHOLOGY, COGNITION, CONSCIOUSNESS
R01HL-19248-03 Breathing pattern variation and mechanical influences

PSYCHOLOGY, COGNITION, DECISION MAKING
P60HL-17292-04 0008 Vermont Lung Center - Respiratory physiology--Teaching, learning and auditing problem-solving skills

PSYCHOLOGY, COGNITION, EXPECTANCY
R25HL-18414-03 Hypertension--Family strategies for patient adherence
R01HL-19680-01 Cardiac correlates of behavioral stress in animals (dog)

PSYCHOLOGY, COGNITION, PROBLEM SOLVING
** P60HL-17292-04 0008 Vermont Lung Center - Respiratory physiology--Teaching, learning and auditing problem-solving skills

PSYCHOLOGY, CONDITIONING
SEE ALSO PSYCHOLOGY, LEARNING
SEE ALSO PSYCHOLOGY, LEARNING, HABITUATION
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
** R01HL-19680-01 Cardiac correlates of behavioral stress in animals (dog)
** R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)

PSYCHOLOGY, CONDITIONING, AUTOGENIC AND INTERNAL CONTROL
SEE ALSO PSYCHOLOGY, BRAIN CONTROL
P01HL-10539-12 0023 Pathophysiology of circulation The relaxation response and therapy of disease states (human)
P01HL-10539-12 0066 Pathophysiology of circulation Usefulness of relaxation response in industrial settings
P01HL-14388-07 0160 Regulation of the circulation in pathological states Mechanism of the antihypertensive effect of training (rats)
R01HL-16292-05 0009 Surgery and non-obstructive coronary insufficiency - Exercise and supply-demand balance (human)
** P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS-Behavioral influences on circulation (baboons)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
** P50HL-18323-04 0047 SCOR hypertension center - Transcendental meditation and self-hypnosis--Hypertension treatment (human)
** R01HL-18814-03 Behavioral tactics for clinical cardiac control (human)
** R01HL-18823-02 Physiological correlates of conditioned blood pressure (human)
P01HL-18974-03 0006 Experimental neurogenic hypertension program - Model of sustained arterial hypertension (cats)
** R01HL-19343-03 Behavioral influences on cardiac contractility (monkeys)
P50HL-19362-02 0011 A/S SCOR--Atherosclerosis in nonhuman primates - Chronic hypertension induced by operant conditioning techniques (baboon)
** R01HL-19568-03 Hypertension--Analysis of drug and behavioral therapies (human)
** R01HL-19844-02 Behavioral control of essential hypertension (human)
R01HL-21318-02 Mechanisms of emotions' asthma triggering effect (human)
** R01HL-21323-02 Raynaud's disease and temperature self-regulation (human)
** R01HL-21426-02 Learned heart rate control (human)
** R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)
R01HL-22506-01 Hemodynamics of the clinical hypertensions
** R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)

PSYCHOLOGY, CONDITIONING, AVOIDANCE
R01HL-19680-01 Cardiac correlates of behavioral stress in animals (dog)
R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)
R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)

PSYCHOLOGY, CONDITIONING, EXTINCTION
R01HL-18823-02 Physiological correlates of conditioned blood pressure (human)

PSYCHOLOGY, CONDITIONING, OPERANT
R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
** R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R25HL-18424-03 Blood pressure education in an industrial setting (human)
R01HL-18823-02 Physiological correlates of conditioned blood pressure (human)
P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of cigarette smoking on atherosclerosis (baboon)
P50HL-19362-02 0008 A/S SCOR--Atherosclerosis in nonhuman primates - Lung structure and function in cigarette smoking (baboon)
P50HL-19362-02 0011 A/S SCOR--Atherosclerosis in nonhuman primates - Chronic hypertension induced by operant conditioning techniques (baboon)
P50HL-19362-02 0014 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Behavior observation and manipulation (baboon)
R01HL-19680-01 Cardiac correlates of behavioral stress in animals (dog)
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)
R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)

PSYCHOLOGY, CONDITIONING, REINFORCEMENT
SEE ALSO PSYCHOLOGY, LEARNING, REINFORCEMENT
P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)

PSYCHOLOGY, DEFENSE MECHANISMS
SEE ALSO PSYCHOLOGICAL ADAPTATION, COPING BEHAVIOR
R01HL-20655-02 Autonomic predictors of hypertension in children
R01HL-22740-01 Behavior and cardiovascular disease Basic mechanisms (human)

PSYCHOLOGY, DEFENSE MECHANISMS, DENIAL
R01HL-19567-03 Impact of emotion on coronary arteries (human)
R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)

PSYCHOLOGY, EMOTIONAL DEPENDENCY-INDEPENDENCY
R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)
R01HL-22472-01 Smoking risk-factor reduction--Maintenance strategies (human)

PSYCHOLOGY, EMOTIONS
SEE ALSO PSYCHOLOGIC STRESS
SEE ALSO PSYCHOLOGICAL ADAPTATION, EMOTIONAL ADJUSTMENT
SEE ALSO PSYCHOLOGY ABNORMAL, EMOTIONAL DISORDERS
P60HL-15996-06 0005 Cincinnati comprehensive sickle cell center - Factors precipitating crises (human)
P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)
** R01HL-19343-03 Behavioral influences on cardiac contractility (monkeys)
** R01HL-19567-03 Impact of emotion on coronary arteries (human)
R01HL-21318-02 Mechanisms of emotions' asthma triggering effect (human)

PSYCHOLOGY, EMOTIONS, ANGER
R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)

PSYCHOLOGY, EMOTIONS, ANXIETY
P50HL-18318-03 0012 Pathogenesis and complications of hypertension - Behavioral factors in hypertension (human)
R01HL-18589-03 Psychosocial factors and outcome in coronary disease (human)
R01HL-19204-03 Environmental factors in hypertension (Rhesus monkeys)
R01HL-19567-03 Impact of emotion on coronary arteries (human)
R01HL-21426-02 Learned heart rate control (human)
R01HL-22378-01 Psyco-somatic predictors of CHD in adolescence (human)
R01HL-22809-01 Coronary-prone behavior and cardiovascular reactivity (human)

PSYCHOLOGY, EMOTIONS, DEPRESSION
R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
R01HL-18589-03 Psychosocial factors and outcome in coronary disease (human)
R01HL-19567-03 Impact of emotion on coronary arteries (human)
R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)

PSYCHOLOGY, EMOTIONS, EMPATHY
** R25HL-18418-03 Role of a supporting partner in adherence (human)

PSYCHOLOGY, HABITS, SMOKING
SEE ALSO CONSUMER PRODUCTS, TOBACCO AND TOBACCO PRODUCTS
SEE ALSO PYRIDINES, NICOTINE
** R01HL-01803-23 0011 Arteriosclerosis, glomerulonephritis, rheumatic fever - Immunopathologic consequences of cigarette smoking (human, rabbits, plants)
** R01HL-01803-23 0021 Arteriosclerosis, glomerulonephritis, rheumatic fever - Induction of IgE antibodies to antigen from tobacco and cigarette smoke (rabbits)
P01HL-03174-23 0010 Mechanisms of acute vascular reaction to injury - Search for mutagens in the human blood (bacteria, animals)
R01HL-03429-18 Central nervous system and coronary heart disease (human)
P01HL-08974-14 0005 Natural and experimental atherosclerosis - Atherosclerosis, coronary heart disease and sudden death (human)
P01HL-08974-14 0028 Natural and experimental atherosclerosis - Geographic pathology of atherosclerosis and coronary heart disease (human)
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
R01HL-10009-13 Regional lung function in man
P01HL-10539-12 0068 Pathophysiology of circulation - Acute and chronic cardiomyopathies (mice, dogs, hamsters, human)
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
R01HL-12833-09 Genetic and environmental influences on lung disease (human)
R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
R01HL-13824-06 Defense mechanisms in pathogenesis of emphysema (human, dogs)
P50HL-14136-07 0009 Pulmonary SCOR--Airways obstructive diseases - Tuscon epidemiological study of airways obstructive disease (human)

(contd)

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**Oriented significantly to above subject.

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P50HL-14136-07 0016 Pulmonary SCOR--Airways obstructive diseases - Environmental factors in airways obstructive diseases (human)
P50HL-14153-07 0001 Johns Hopkins Lung Center--Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)
P50HL-14153-07 0010 Johns Hopkins Lung Center--Chronic diseases of airways - Risk factors for airways obstruction in a rural community (human)
P50HL-14212-07 0004 Correlated studies of pulmonary fibrosis - Collagen metabolism in lung tissue and lung cells (human, animal)
P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
P50HL-14212-07 0007 Correlated studies of pulmonary fibrosis - Protein metabolism in alveolar macrophages (rabbits, guinea pigs, human)
** P50HL-14212-07 0012 Correlated studies of pulmonary fibrosis - Inorganic particulates in tobacco, smoke and lungs of cigarette smokers (human)
R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
** R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)
R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
P01HL-15194-07 0024 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Airflow limitation in COLD (human)
R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
P01HL-16118-06 0004 Study of emphysema - Metabolic activity of pulmonary connective tissue (human, hamsters)
R01HL-16463-05 Localization of airways obstruction and responses
P01HL-16748-05 0006 Cellular and immunological basis of pulmonary diseases - Sarcoidosis--Studies with bronchial lavage (human)
R01HL-16774-04 Genetic epidemiology of hyperlipemia (Honolulu)
** P60HL-17269-04 0042 National heart and blood vessel research and demonstration center - Social-psychological smoking deterrents in schools
P60HL-17292-04 0003 Vermont Lung Center - Subclinical pulmonary disease in a rural environment (human)
R01HL-17580-04 The impact of stress on coronary heart disease (men)
R01HL-18235-03 Cardiovascular fitness and other risk factors (human)
R01HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
R01HL-18632-02 Epidemiologic study of chronic lung disease
R01HL-19118-03 Measurement of airways mechanics (human, dog)
** P50HL-19170-02 0001 Harvard pulmonary SCOR--Chronic diseases of the airways - Natural history, reversibility of pulmonary abnormalities in smokers (human)
R01HL-19237-03 Obstructive lung disease and alveolar macrophages (human, animals)
M P50HL-19362-02 A/S SCOR--Atherosclerosis in nonhuman primates
** P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of cigarette smoking on atherosclerosis (baboon)
** P50HL-19362-02 0007 A/S SCOR--Atherosclerosis in nonhuman primates - Behavior type, cigarette smoking and atherosclerosis (baboon)
** P50HL-19362-02 0008 A/S SCOR--Atherosclerosis in nonhuman primates - Lung structure and function in cigarette smoking (baboon)
P01HL-19717-02 0043 Response of the lung to injury - Asbestosis as a model of usual interstitial pneumonia (human)
P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-19858-03 UMMC--Blood pressure precursors and consequences (human)
R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
R01HL-20179-02 Epidemiology of sudden cardiac death among women
R01HL-20381-03 Long-term study of diabetic vascular disease (human)
R01HL-20662-02 Physical activity, fitness and epidemiology of CHD
R01HL-20675-02 Alveolar macrophage function in man
R01HL-20847-02 Respiratory neurochemical control (human, goats)
R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
M P01HL-20994-02 Dynamics of neutrophil elastase in the lung
P01HL-20994-02 0002 Dynamics of neutrophil elastase in the lung - Neutrophil and neutrophilic elastase in human lungs
P01HL-20994-02 0003 Dynamics of neutrophil elastase in the lung - Neutrophil elastase flux in models of lung disease (dogs)
P01HL-20994-02 0008 Dynamics of neutrophil elastase in the lung - Structure-function correlation in experimental emphysema (human, dogs)
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons
R01HL-21307-01 Risk reduction and exercise fitness in a population
R01HL-21352-02 Community studies of obstructive lung disease (human)
R18HL-21906-01 Stanford five city multifactor risk reduction study
R01HL-21971-01 Atherosclerotic disease and risk factors in twins (human)
R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)
** R01HL-22472-01 Smoking risk-factor reduction--Maintenance strategies (human)
R01HL-22528-02 Early risk predictors for chronic pulmonary disease (human)
R01HL-22623-01 Polyamines cellular mediators of atherogenesis (human)
** R23HL-22947-01 Experimental systems to improve youth behavior (smoking prevention)
** N01HR-32900-09 Pilot study to standardize the measurement of 'closing volume' (human)
** N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)
** N01HR-32903-11 Pilot study to standardize the measurement of 'closing volume' (human)
N01HV-22971-07 Prevention of coronary heart disease (human)
N01HV-22976-07 Multiple risk factor intervention trial, prevention of coronary heart disease
N01HV-22977-08 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22979-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22981-10 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33101-06 Development and conduct of a multiple risk factor intervention trial (human)
N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33108-04 Prevention of coronary heart disease (human)
N01HV-33109-04 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33110-04 Prevention of coronary heart disease (human)
N01HV-42929-08 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42930-09 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42931-07 Risk factor intervention trail for the prevention of CHD (men)
N01HV-42932-05 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42933-09 Multiple risk factors in coronary heart disease (human)

PSYCHOLOGY, LEARNING
SEE ALSO EDUCATION, PROGRAMMED INSTRUCTION
SEE ALSO PSYCHOLOGY, CONDITIONING
** R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)

PSYCHOLOGY, LEARNING, HABITUATION
P50HL-14214-07 0013 Newborn lung center for hyaline membrane disease - Developmental outcome of children who had HMD as infants
R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)

PSYCHOLOGY, LEARNING, REINFORCEMENT
SEE ALSO PSYCHOLOGY, CONDITIONING, REINFORCEMENT
R25HL-18406-03 Adherence to hypertensive medical regimens (human)
R25HL-18414-03 Hypertension--Family strategies for patient adherence

PSYCHOLOGY, LEARNING, TRANSFER
R01HL-21426-02 Learned heart rate control (human)

PSYCHOLOGY, MENTAL PROCESSES (GENERAL)
SEE ALSO PSYCHOLOGY, COGNITION
** P01HL-08899-14 0046 Tolerance to respiratory gases in health and disease - Studies in senile elderly individuals

PSYCHOLOGY, MOTIVATION
SEE ALSO PSYCHIC ACTIVITY LEVEL
SEE ALSO PSYCHOLOGY, BEHAVIOR, GOAL-STRIVING
SEE ALSO PSYCHOLOGY, PERFORMANCE
R25HL-17056-01 Improving patient compliance through nursing action
R25HL-18406-03 Adherence to hypertensive medical regimens (human)
R25HL-18414-03 Hypertension--Family strategies for patient adherence

PSYCHOLOGY, MOTIVATION, REWARDS AND NON-REWARDS
R01HL-22472-01 Smoking risk-factor reduction--Maintenance strategies (human)

PSYCHOLOGY, PERFORMANCE
SEE ALSO HEALTH SCIENCES PROFESSIONS, HEALTH PERSONNEL PERFORMANCE
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
P01HL-08899-14 0043 Tolerance to respiratory gases in health and disease - Oxygen effects upon CNS and sensory functions (human)
** P01HL-08899-14 0044 Tolerance to respiratory gases in health and disease - Influence of high oxygen pressures on cognition and performance
P01HL-08899-14 0064 Tolerance to respiratory gases in health and disease - Narcotic effects of inert gases on functional systems (rats)

PSYCHOLOGY, PERFORMANCE, ACADEMIC ACHIEVEMENT
SEE ALSO EDUCATION, TRAINING LEVEL
P60HL-15158-07 0010 Comprehensive sickle cell center - Tutorial service for sickle cell anemia patients
** P60HL-15996-06 0004 Cincinnati comprehensive sickle cell center - School adjustment of sickle cell patients
P50HL-19187-02 0007 Pediatric pulmonary SCOR--Hyaline membrane disease - Follow-up study--Infants with hyaline membrane disease (human)
R01HL-22378-01 Psyco-somatic predictors of CHD in adolescence (human)

PSYCHOLOGY, PERFORMANCE, INTELLIGENCE
SEE ALSO MENTAL RETARDATION
P50HL-14214-07 0013 Newborn lung center for hyaline membrane disease - Developmental outcome of children who had HMD as infants
P50HL-19187-02 0007 Pediatric pulmonary SCOR--Hyaline membrane disease - Follow-up study--Infants with hyaline membrane disease (human)

PSYCHOLOGY, PERFORMANCE, SUCCESS-FAILURE
R01HL-22809-01 Coronary-prone behavior and cardiovascular reactivity (human)

PSYCHOLOGY, PERSONALITY
SEE ALSO PSYCHOLOGY, ATTITUDES (AND RELATED)
SEE ALSO PSYCHOLOGY, BEHAVIOR
SEE ALSO PSYCHOLOGY, PERFORMANCE, INTELLIGENCE
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)
R01HL-23078-01 Psychosocial stress and sudden coronary death (human)

PSYCHOLOGY, PERSONALITY, LIFE STYLE
R01HL-04697-17 International heart disease epidemiology (human)
R01HL-18589-03 Psychosocial factors and outcome in coronary disease (human)
** R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-20005-03 Factors in blood pressure levels of children
R01HL-20910-02 The alternative diet for coronary disease prevention (human)
R01HL-22472-01 Smoking risk-factor reduction--Maintenance strategies (human)

PSYCHOLOGY, PERSONALITY DEVELOPMENT, SELF-CONCEPT
P60HL-15160-07 0003 Center for sickle cell disease - Genetic counseling in hemoglobinopathies--Dimensions, effectiveness
P60HL-15996-06 0004 Cincinnati comprehensive sickle cell center - School adjustment of sickle cell patients
R23HL-21954-01 Exercise conditioning in patients with cystic fibrosis

PSYCHOLOGY, PERSUASION
SEE ALSO PSYCHOLOGY, SUGGESTION
P60HL-17269-04 0042 National heart and blood vessel research and demonstration center - Social-psychological smoking deterrents in schools

PSYCHOLOGY, SUGGESTION
SEE ALSO PSYCHOLOGY, PERSUASION
R01HL-21318-02 Mechanisms of emotions' asthma triggering effect (human)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

PSYCHOLOGY, SUGGESTION, HYPNOSIS

** P50HL-18323-04 0047 SCOR hypertension center - Transcendental meditation and self-hypnosis--Hypertension treatment (human)

PSYCHOLOGY ABNORMAL, EMOTIONAL DISORDERS

SEE ALSO PSYCHOLOGY, EMOTIONS, DEPRESSION

R01HL-20725-02 Mechanisms and cellular functions of ion transport

PSYCHOLOGY ABNORMAL, MENTAL DISORDERS (GENERAL)

SEE ALSO MENTAL RETARDATION

SEE ALSO METABOLIC DISORDERS INBORN, HEPATOLENTICULAR DEGENERATION

R01HL-18994-03 Substance P--Occurrence, pharmacology and physiology (mammals non-human, human)

R01HL-20179-02 Epidemiology of sudden cardiac death among women

PSYCHOLOGY ABNORMAL, MENTAL DISORDERS CHEMOTHERAPY

SEE ALSO PSYCHOPHARMACOLOGY

R01HL-20725-02 Mechanisms and cellular functions of ion transport

PSYCHOLOGY DEVELOPMENTAL (CHILD MENTAL DEVELOPMENT)

SEE CHILD MENTAL DEVELOPMENT

PSYCHOLOGY EDUCATIONAL (GENERAL)

SEE ALSO PSYCHOLOGY, LEARNING

SEE ALSO PSYCHOLOGY, PERFORMANCE

P60HL-17292-04 0008 Vermont Lung Center - Respiratory physiology--Teaching, learning and auditing problem-solving skills

PSYCHOLOGY SOCIAL (SEE ALSO SOCIAL...)

SEE ALSO FAMILY

SEE ALSO PSYCHOSOCIAL ISOLATION-DEPRIVATION

P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)

** P50HL-18318-03 0012 Pathogenesis and complications of hypertension - Behavioral factors in hypertension (human)

R25HL-18406-03 Adherence to hypertensive medical regimens (human)

** R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)

PSYCHOLOGY SOCIAL, COMPETITION

R01HL-21319-02 Interpersonal stress and coronary-prone behavior (human)

PSYCHOLOGY SOCIAL, GROUP PROCESSES

SEE ALSO SOCIAL GROUPS

R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)

PSYCHOLOGY SOCIAL, GROUP PROCESSES, PEER GROUPS

R25HL-18424-03 Blood pressure education in an industrial setting (human)

R23HL-22947-01 Experimental systems to improve youth behavior (smoking prevention)

PSYCHOLOGY SOCIAL, GROUP PROCESSES, SOCIAL DOMINANCE

P50HL-19362-02 0007 A/S SCOR--Atherosclerosis in nonhuman primates - Behavior type, cigarette smoking and atherosclerosis (baboon)

PSYCHOLOGY SOCIAL, INTERPERSONAL RELATIONS

SEE ALSO HEALTH CARE SERVICES, PATIENT-PROFESSIONAL RELATIONS

R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)

P50HL-18318-03 0012 Pathogenesis and complications of hypertension - Behavioral factors in hypertension (human)

R01HL-20724-01 Behavioral consequences of hypertension (human)

R01HL-21319-02 Interpersonal stress and coronary-prone behavior (human)

R01HL-23078-01 Psychosocial stress and sudden coronary death (human)

PSYCHOLOGY SOCIAL, INTERPERSONAL RELATIONS, DIADIC INTERACTION

** R25HL-18418-03 Role of a supporting partner in adherence (human)

PSYCHOLOGY SOCIAL, SOCIAL ADJUSTMENT

SEE ALSO PSYCHOLOGICAL ADAPTATION, EMOTIONAL ADJUSTMENT

R01HL-15790-06 Follow-up study of acute coronary heart attacks (human)

** P60HL-15996-06 0004 Cincinnati comprehensive sickle cell center - School adjustment of sickle cell patients

PSYCHOLOGY SOCIAL, SOCIAL BEHAVIOR

P50HL-18318-03 0012 Pathogenesis and complications of hypertension - Behavioral factors in hypertension (human)

P50HL-19362-02 0003 A/S SCOR--Atherosclerosis in nonhuman primates - Heritability of characters related to atherosclerosis (baboons)

P50HL-19362-02 0007 A/S SCOR--Atherosclerosis in nonhuman primates - Behavior type, cigarette smoking and atherosclerosis (baboon)

P50HL-19362-02 0014 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Behavior observation and manipulation (baboon)

PSYCHOLOGY SOCIAL, SOCIAL CONFORMITY

P60HL-17269-04 0042 National heart and blood vessel research and demonstration center - Social-psychological smoking deterrents in schools

PSYCHOMETRICS

P50HL-15103-07 0001 A/S SCOR--Early natural history of arteriosclerosis - Clinical research--Bogalusa heart study (children)

R01HL-20637-02 Recovery after heart surgery--Bio-behavioral factors (human)

PSYCHOMOTOR FUNCTION

P01HL-08899-14 0043 Tolerance to respiratory gases in health and disease - Oxygen effects upon CNS and sensory functions (human)

** P01HL-08899-14 0045 Tolerance to respiratory gases in health and disease - Studies in normal subjects

P01HL-08899-14 0064 Tolerance to respiratory gases in health and disease - Narcotic effects of inert gases on functional systems (rats)

** P01HL-08899-14 0065 Tolerance to respiratory gases in health and disease - Adaptation and effects of narcotic gases exposure (human)

** P01HL-08899-14 0066 Tolerance to respiratory gases in health and disease - Neurophysiological effects of inert gases in man

R01HL-20724-01 Behavioral consequences of hypertension (human)

PSYCHOMOTOR FUNCTION, TRACKING TASK

P01HL-16878-05 0001 Control of ventilation in health and disease - Ability of asthmatics to detect added resistive and elastic loads

PSYCHOMOTOR FUNCTION, VISUAL TRACKING

** P01HL-08899-14 0067 Tolerance to respiratory gases in health and disease - Inert gas influences upon visual function in man

PSYCHOPHARMACOLOGICAL AGENTS, ANTIDEPRESSANTS

R01HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)

PSYCHOPHARMACOLOGICAL AGENTS, HYPNOTICS AND SEDATIVES

P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)

PSYCHOPHARMACOLOGICAL AGENTS, NARCOTICS

R01HL-15659-05 Dynamic isolation studies of control of respiration (human)

R01HL-16022-05 Determinants of the ventilatory response to hypoxia (goats, cats)

** R01HL-17954-03 Narcotics and the circulation (human, dogs, pigs, monkeys)

PSYCHOPHARMACOLOGICAL AGENTS, PSYCHOTROPIC DRUGS (GENERAL)

** P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotherapeutic drugs and cardiovascular system (human, rats)

PSYCHOPHARMACOLOGICAL AGENTS, TRANQUILIZERS

R01HL-12971-15 Reactions of alkoloids and their analogs

R01HL-13909-27 Physiochemistry and immunology of macromolecules

** P01HL-14388-07 0159 Regulation of the circulation in pathological states - Early drug and diet interventions and blood pressure development (rats)

R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)

R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)

PSYCHOPHARMACOLOGY

SEE ALSO NEUROPHARMACOLOGY

SEE ALSO PSYCHOLOGY ABNORMAL, MENTAL DISORDERS CHEMOTHERAPY

** P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotherapeutic drugs and cardiovascular system (human, rats)

** R01HL-13909-27 Physiochemistry and immunology of macromolecules

R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)

PSYCHOPHYSIOLOGIC DISORDERS

SEE ALSO BEHAVIORAL MEDICINE

SEE ALSO GASTROINTESTINAL DISORDERS, PEPTIC ULCER

SEE ALSO PSYCHOLOGIC STRESS

R01HL-15790-06 Follow-up study of acute coronary heart attacks (human)

** P50HL-18318-03 0012 Pathogenesis and complications of hypertension Behavioral factors in hypertension (human)

R01HL-18589-03 Psychosocial factors and outcome in coronary disease (human)

** R01HL-18814-03 Behavioral tactics for clinical cardiac control (human)

R01HL-18823-02 Physiological correlates of conditioned blood pressure (human)

** R01HL-19974-02 Psychologic-behavioral influences on heart pathology (rats)

R01HL-20655-02 Autonomic predictors of hypertension in children

** R01HL-21318-02 Mechanisms of emotions' asthma triggering effect (human)

R01HL-21323-02 Raynaud's disease and temperature self-regulation (human)

R01HL-21426-02 Learned heart rate control (human)

R01HL-21427-02 Behavioral changes in post infarction patients

R01HL-22021-01 Asthma in families-- Behavior analysis of family interaction pattern

R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)

** R01HL-22378-01 Psyco-somatic predictors of CHD in adolescence (human)

** R01HL-22740-01 Behavior and cardiovascular disease--Basic mechanisms (human)

PSYCHOPHYSIOLOGY

SEE PSYCHOBIOLOGY, PSYCHOPHYSIOLOGY

PSYCHOSIS, DEPRESSIVE, REACTIVE PSYCHOTIC DEPRESSION

R01HL-21426-02 Learned heart rate control (human)

PSYCHOSIS, SENILE

SEE BRAIN DISORDERS, CEREBRAL ATROPHY DIFFUSE, SENILE DEMENTIA

PSYCHOSOCIAL FACTORS IN HYPERTENSION

SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), ENVIRONMENT-ASSOCIATED

PSYCHOSOCIAL ISOLATION-DEPRIVATION

** R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)

** R01HL-18589-03 Psychosocial factors and outcome in coronary disease (human)

** R01HL-20384-09 Social stimulation, RNA and cardiovascular disease (animals)

PSYCHOSOMATIC DISORDERS

SEE PSYCHOPHYSIOLOGIC DISORDERS

PSYCHOTHERAPEUTIC DRUGS

SEE PSYCHOPHARMACOLOGICAL AGENTS, PSYCHOTROPIC DRUGS (GENERAL)

PSYCHOTHERAPY, BEHAVIOR MODIFICATION

SEE ALSO PSYCHOTHERAPY, DESENSITIZATION

R25HL-17056-01 Improving patient compliance through nursing action

P60HL-17269-04 0042 National heart and blood vessel research and demonstration center - Social-psychological smoking deterrents in schools

P60HL-17269-04 0043 National heart and blood vessel research and demonstration center - Dietary modification--Effect on cardiovascular risk parameters (human)

P60HL-17269-04 0047 National heart and blood vessel research and demonstration center - Evaluation of competency-based educational model

R01HL-19568-03 Hypertension--Analysis of drug and behavioral therapies (human)

R01HL-20910-02 The alternative diet for coronary disease prevention (human)

** R01HL-21427-02 Behavioral changes in post infarction patients

M R23HL-22345-02 Behavioral cardiovascular compliance strategies

** R23HL-22345-02 0001 Behavioral cardiovascular compliance strategies - Long term modification of dietary patterns (human)

** R23HL-22345-02 0002 Behavioral cardiovascular compliance strategies - Compliance with antihypertensive medication regimens (human)

R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)

** N01HR-72974-01 Self-management systems for asthmatic children

N01HV-72983-00 Nutrition counseling in hyperlipidemia

PSYCHOTHERAPY, DESENSITIZATION

R01HL-21426-02 Learned heart rate control (human)

R01HL-22021-01 Asthma in families-- Behavior analysis of family interaction pattern

PSYCHOTHERAPY, FAMILY THERAPY

R23HL-22345-02 0001 Behavioral cardiovascular compliance strategies - Long term modification of dietary patterns (human)

R23HL-22345-02 0002 Behavioral cardiovascular compliance strategies - Compliance with antihypertensive medication regimens (human)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

PSYCHOTHERAPY, GROUP THERAPY
SEE ALSO MENTAL HEALTH SERVICES, COUNSELING, GROUP
P01HL-10539-12 0031 Pathophysiology of circulation - Post myocardial infarction care--Psychological aspects (human)
N01HR-72974-01 Self-management systems for asthmatic children

PSYCHOTROPIC DRUGS
SEE PSYCHOPHARMACOLOGICAL AGENTS, PSYCHOTROPIC DRUGS (GENERAL)

PTC FACTOR
SEE BLOOD COAGULATION, FACTOR IX

PTFE
SEE PLASTICS, FLUOROCARBON POLYMERS

PTEROYLGLUTAMIC ACID
SEE FOLIC ACID

PUBERTY
SEE CHILD DEVELOPMENT, PUBERTY

PUBERTY (ANIMAL)
SEE AGE (ANIMAL), PUBERTY

PUBLIC ASSISTANCE, MEDICAL
SEE HEALTH ECONOMICS, HEALTH CARE COSTS-FINANCING, MEDICAL INDIGENCY

PUBLICATIONS
P01HL-06312-17 0051 Surgical cardiology - Diuretic therapy on myocardial electrolyte composition and water content (human)
P01HL-08899-14 0089 Tolerance to respiratory gases in health and disease - Decompression by applications of optimal control theory

PUBLICATIONS, ATLASES
** N01HR-62910-02 Fibroprotein networks of pulmonary alveolar wall (human)

PUBLICATIONS, HANDBOOK
R23HL-22947-01 Experimental systems to improve youth behavior (smoking prevention)
** N01HV-72941-02 Therapy to protect ischemic myocardium--Clinical tests
** N01HV-72942-02 Therapy to protect ischemic myocardium--Clinical tests

PUBLICATIONS, LITERATURE SURVEY
** P01HL-14388-07 0195 Regulation of the circulation in pathological states - General review of potential pathophysiologic factors in spontaneous hypertension

PUERILE
SEE CHILDREN

PUERTO RICO
SEE GEOGRAPHICAL SITES, UNITED STATES, PUERTO RICO

PUFFER FISH TOXIN
SEE TOXICOLOGY, ANIMAL POISONS, TETRODOTOXIN

PULMONARY AIRWAY RESISTANCE NORMAL
SEE RESPIRATORY FUNCTION, RESPIRATORY AIRWAY PRESSURES

PULMONARY ALVEOLAR PROTEINOSIS
SEE RESPIRATORY DISORDERS, PULMONARY ALVEOLAR PROTEINOSIS

PULMONARY ARTERY
SEE RESPIRATORY CIRCULATION, PULMONARY ARTERY

PULMONARY CIRCULATION
SEE RESPIRATORY CIRCULATION, PULMONARY CIRCULATION

PULMONARY CIRCULATORY OBSTRUCTION
SEE RESPIRATORY CIRCULATORY DISORDERS, PULMONARY CIRCULATORY OBSTRUCTIONS

PULMONARY DIFFUSION
SEE RESPIRATORY FUNCTION, PULMONARY DIFFUSION

PULMONARY DISORDERS
SEE RESPIRATORY DISORDERS, LUNG DISORDERS (GENERAL)

PULMONARY EDEMA
SEE RESPIRATORY DISORDERS, PULMONARY EDEMA

PULMONARY EMPHYSEMA
SEE RESPIRATORY DISORDERS, BRONCHITIS CHRONIC AND EMPHYSEMA

PULMONARY FIBROSIS AND GRANULOMAS
SEE RESPIRATORY DISORDERS, PULMONARY FIBROSIS AND GRANULOMAS

PULMONARY HEART DISEASE
SEE RESPIRATORY CIRCULATORY DISORDERS, PULMONARY HEART DISEASE

PULMONARY HYPERTENSION
SEE RESPIRATORY CIRCULATORY DISORDERS, PULMONARY HYPERTENSION

PULMONARY HYPOXIA
SEE RESPIRATORY GAS LEVELS, HYPOXIA, RESPIRATORY

PULMONARY IMMATURITY, NEWBORN
SEE CONGENITAL ABNORMALITIES, RESPIRATORY DISTRESS SYNDROME

PULMONARY INSUFFICIENCY (GENERAL)
SEE RESPIRATORY DISORDERS, RESPIRATORY INSUFFICIENCY (GENERAL)

PULMONARY INSUFFICIENCY LUNG NEWBORN
SEE CONGENITAL ABNORMALITIES, RESPIRATORY DISTRESS SYNDROME

PULMONARY INSUFFICIENCY POST-TRAUMATIC
SEE RESPIRATORY DISORDERS, RESPIRATORY INSUFFICIENCY, SHOCK LUNG

PULMONARY ISCHEMIA AND HYPOXIA
SEE RESPIRATORY CIRCULATORY DISORDERS, PULMONARY ISCHEMIA AND HYPOXIA

PULMONARY LAVAGE
SEE RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, PULMONARY LAVAGE

PULMONARY STRETCH RECEPTORS
SEE RESPIRATORY SYSTEM, PULMONARY STRETCH RECEPTORS

PULMONARY SURFACTANT
SEE RESPIRATORY SYSTEM, PULMONARY SURFACTANT

PULMONARY VALVE
SEE HEART, VALVES, PULMONARY VALVE

PULMONARY VALVE STENOSIS
SEE HEART DISORDERS, VALVULAR, PULMONARY VALVE STENOSIS

PULMONARY VEINS
SEE RESPIRATORY CIRCULATION, PULMONARY VEINS

PULMONARY VENTILATION
SEE RESPIRATORY FUNCTION, PULMONARY VENTILATION

PULSE PRESSURE WAVES
SEE CARDIOVASCULAR FUNCTION, VASOMOTION, PULSE PRESSURE WAVES

PUMP-OXYGENATOR
SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART MECHANICAL EXTRACORPOREAL

PUMPLESS BLOOD OXYGENATORS
SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, BLOOD OXYGENATORS

PUPILLOGRAPHY
SEE EYE DISORDERS DIAGNOSIS, PUPILLOGRAPHY*

PURE LINES
SEE GENETICS, GENOTYPES, HOMOZYGOTES
SEE GENETICS, POPULATION GENETICS, INBREEDING

PURINE NUCLEOSIDES
R01HL-20286-02 Interventions to improve cardiac function in ischemia (dogs)

PURINE NUCLEOSIDES, ADENINE NUCLEOSIDES
R01HL-20278-02 Cellular mechanisms of renin secretion (rats)

PURINE NUCLEOSIDES, ADENINE NUCLEOSIDES, ADENOSINE
R01HL-05883-18 0002 Reflex control of resistance and capacitance vessels - Adenosine, adenine nucleotides and vascular smooth muscle (dog)
P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
** R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
** P01HL-15194-07 0018 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, metabolic demand and vasodilatory reserve (human, dogs)
P01HL-15194-07 0020 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation in arteriographically normal arteries (human)
** R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
** P50HL-17651-04 0041 Ischemic heart disease specialized center of research - Biochemical indices of ischemic injury (guinea pig)
P50HL-17682-04 002D Study of ischemic heart disease - Nucleotide and nucleoside metabolism in ischemic myocardium
RD1HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
R01HL-17932-04 Blood flow regulation in muscle (cats)
** RD1HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
R01HL-19082-01 Hypoxia-induced relaxation of vascular smooth muscle
** RD1HL-19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
** P01HL-19242-02 00D3 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
P01HL-19242-02 D004 Study of vascular smooth muscle - Cyclic nucleotide metabolism in smooth muscle cultures (human, rats)
P01HL-19242-02 0D07 Study of vascular smooth muscle - NE release in and reactivity of vascular smooth muscle (animals)
R01HL-19370-03 Coronary capillary exchange--The effects of ischemia (dogs, sheep)
** R01HL-2D782-01 Coronary flow regulation by adenosine (rats, dogs)
R23HL-21434-02 Intrinsic control of coronary blood flow by chemicals (guinea pigs)
R01HL-21872-01 Myocardial perfusion in the hypertrophied heart (dogs)
** R01HL-22828-01 Adenosine and catecholamine interaction in the heart (rats)
R23HL-22975-D1 Dynamics of autoregulation of muscle blood flow (dogs)
R01HL-23140-01 Determinants of irreversible ischemic injury in heart (dog, rat)

PURINE NUCLEOSIDES, ADENINE NUCLEOSIDES, DIMETHYL-3'-AMINO-3'-DEOXYADENOSINE
R01HL-16490-04 Structural basis of nephron filtration (rats, rabbits)

PURINE NUCLEOSIDES, HYPOXANTHINE NUCLEOSIDES, INOSINE
R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
R01HL-16931-04 Red cell storage and transfusion (human, animals)
R01HL-18489-03 Hemodynamic interactions of vasoactive chemicals (rats)
R01HL-23140-01 Determinants of irreversible ischemic injury in heart (dog, rat)

PURINE NUCLEOTIDES
R01HL-18288-04 Intraoperative protection of the myocardium (dogs, rats)
R01HL-22290-01 Cardiac energy metabolism and protein synthesis (mice)

PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES
R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
** R01HL-05883-18 0002 Reflex control of resistance and capacitance vessels - Adenosine, adenine nucleotides and vascular smooth muscle (dog)
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
R01HL-16931-04 Red cell storage and transfusion (human, animals)
** R01HL-17372-03 Adenine nucleotide maintenance in the ischemic heart (rats)
R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
R01HL-17759-03 Studies of myocardial reactive hyperemia (dogs, human)
R01HL-18038-03 Structure and function of heart mitochondria (cattle)
R01HL-20079-02 0002 Thromboresistant material - Thromboresistant materials (sheep)
** R01HL-202D6-02 Carbohydrates-nucleotides and adrenergic interactions (rabbits, cats, rats)
R01HL-20818-02 Platelet storage at 22 degrees C (human)
R01HL-22281-01 Microprobe analysis and metabolite levels of ischemic mycardium (dogs)
** R01HL-23153-01 Mechanisms of altered CA2D transport in ischemic heart (dog, rabbit)
R01HL-232D5-01 Contraction of pulmonary vascular smooth muscle (cat)

PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, ADP
R01HL-D1974-24 Ion-pump in the erythrocyte (rabbits, guinea pigs)
P01HL-D6285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)
P01HL-06285-18 0200 Cardiovascular-respiratory physiology and biochemistry - Medullary counter-current system (animals)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-06312-17 0052 Surgical cardiology - Assay of mafabolic variablas of rat haart
P01HL-06664-17 0040 Cardiopulmonaiy function in remadiabla vascular disaase - The coupling of ion transport to mafabolism (foads)
P50HL-14217-08 0051 Specializad cantar of rasearch in frombosis - Microcirculation section (bat, hamster)
P50HL-14217-08 0058 Specialized center of rasaarch in thrombosis - Machanisms of induction and inhibition of platelet reaction (human, pig)
** R01HL-14344-07 Pletalet funcfion and adenine nuclaotide metabolism (human)
P01HL-14388-07 0173 Ragulation of the circulation in pathological stetes - Mechanisms of cardiec myosin ATPase
R01HL-14595-07 Primary disorders of platelet function (human, rets)
R01HL-15335-06 The nature of tha collagen-platelef inferaction (animels)
R01HL-15692-07 Force and speed in skelafal and cardiac muscla
R01HL-15980-06 Raactions of hemeprofains and oxygen (cattle)
P50HL-17651-04 0041 Ischemic haart disease specialized center of research - Biochemical indices of ischemic injury (guinea pig)
R01HL-18502-03 Enzymafic regulation of platelaf funcfion (human)
P01HL-18576-03 0001 Thrombosis rasearch program project - Platelef damaga from physical forcas and ertificial surfaces (human)
R01HL-18584-03 Effects of physical forcas on platalefs (human)
P01HL-18827-02 0003 Platelat vassel wall interacfions in thrombogenesis - Tumor cell and platalefs in thromboganesis and metastasis (human, animals)
P50HL-18828-03 0001 Specialized center of resaarch in frombosis - Membrane biology and hamostasis (human)
P50HL-18828-03 0004 Spacialized cenfar of research in frombosis - Membrane changes in plafelet physiology--Rola of complement (mice, human)
R01HL-20262-02 Cardiac glycosides and fhe mechanism of the sodium-potassium pump
R01HL-20411-03 Platelat fatty acid mefabolism in diabefes (ref, rabbit, guinea pig)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbifs, human)
R01HL-20956-02 Early evenfs following sfimulafion of human platelefs
R23HL-21128-02 ATP utilizafion in platelef contractile mechenisms (human, rabbits)
R01HL-22231-02 Modulation of calcium confrol of cardiac myofibrils (rafs)
R01HL-22738-01 Role of bioelectric potentials in plafelet adharence (bats, rats, hamsters)
R01HL-23153-01 Mechanisms of alterad CA20 transport in ischemic heart (dog, rabbit)
R01HL-23161-01 0001 Biology of myocardial ischemia - Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)

PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, AMP

P50HL-17651-04 0041 Ischemic heart disease specialized cenfer of research - Biochemical indices of ischemic injury (guinea pig)
R01HL-23153-01 Mechanisms of altered CA20 transport in ischemic heart (dog, rabbit)

PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, AMP CYCLIC

R01HL-05883-18 0002 Reflex control of resisfance and capacitance vessels - Adenosine, adenine nucleofides and vascular smooth muscle (dog)
P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemisfry - Biochemical regulation of hypertrophy (rats, rabbits)
** P01HL-06285-18 0186 Cardiovascular-respirafory physiology and biochemistry - Leukocyte hormone recepfors and cyclic nucleofides (tissue culture)
P01HL-06285-18 0195 Cardiovascular-respirafory physiology and biochemistry - Thyroid thermogenesis and sodium fransport (rats)
P01HL-06285-18 0200 Cardiovascular-respiratory physiology and biochemistry - Medullary counter-currenf system (animals)
P01HL-06296-18 0005 Cardiovascular and pulmonary edaptation to sfress - Regulation of ventricular performance (animals)
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology
R01HL-08508-15 Cardiac conductivity and automaticity (human, dogs, rabbifs)
P01HL-10342-13 0011 The integrated function of respiration and circulafion - Control of respiration 1--Peripheral chemoreceptor studies (cats)
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
** P01HL-11414-11 0004 Thrombosis and atharosclerosis program - Plafelet function and nonthrombogenic surfaces (human)
R01HL-11880-10 Physiology and pathology of blood platelats (human, dogs)
P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Oeterminanfs of parformance of tha whole heert (dogs)
P01HL-12373-10 0012 Cardiopulmonary physiology end pathophysiology - Biochemistry of the sympafhetic narvous systam (rats, rabbits, pigaons)
P01HL-12738-10 0076 Physiologic pharmecology and its clinical applications - Pediatric cardiac elactrophysiology and pharmacology (human, dogs)
P01HL-12738-10 0108 Physiologic pharmacology and its clinical applications - Davelopmental electrophysiology and pharmacology (human, animals)
P01HL-12738-10 0134 Physiologic pharmacology and its clinical applications - Adanylate cyclasa and cAMP phosphodiastarase in cardiac development (dogs)
R01HL-12740-10 Hypocholesterolemic agents--Stareochemistry (rats)
R01HL-13306-08 Pharmacological confrol of cardiac membrane currents (cattle, rabbits)
R01HL-13715-08 Myocardial adenyl cyclase (rats)
P01HL-13737-07 0031 Assisted circulation - Myocardial ischemia--Biochamical changas (dogs)
R01HL-13870-09 Control of myocardial sarcotubular calcium storas (dogs)
R01HL-13936-06 Microvascular responsas in hypartension (human, rats)
** P50HL-14141-05 0002 SCOR for atharosclerosis in childhood - Intrauterine environmenf of proband group (human)
P50HL-14147-08 0001 Specialized center of research in thrombosis - Rola of aspirin, othar anti-plafelet agents in plafelet function (rat, human)
P50HL-14153-07 0014 Johns Hopkins Lung Canfar--Chronic disaases of airways - Mediator ralease in asthma (human)
P50HL-14214-07 0015 Newborn lung centar for hyaline membrane disaase - Hormone effect on cyclic nucleotide lipid synthasis in devaloping lung (animal)
P50HL-14217-08 0058 Specialized centar of research in thrombosis - Mechanisms of inducfion and inhibition of platalef reaction (human, pig)
** P01HL-14388-07 0172 Regulafion of the circulation in pafhological sfates - cAMP-dependent protain kinase from haart and vascular smooth muscle (guinea pigs)
P01HL-14388-07 0191 Ragulafion of the circulation in pathological stafes - Regulation of chlorida fransport in epithelial membranas (turtles)
R01HL-14523-07 Generafion and regulation of force in smooth muscle (animals)
R01HL-14706-07 Fatal haarts in organ culture (mice)
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-14720-08 Factors governing the renal excretion of acid (humans, rats)
R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rafs)
P50HL-15092-07 0005 Immune and fibrotic response fo occupational environments - Respirafory and immunologic evaluafion of toluene diisocyanate exposure (human)
R01HL-15447-06 Vascular role of prostaglandin and cyclic nucleofides (rats)
R01HL-15696-06 Mechanism and role of cyclic GMP in heart (animals)
R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
** R01HL-15764-05 C-AMP dependent protein kinase in cardiac contracfion (dogs)
** R01HL-15930-06 Hormonal confrol of lipid and lipoprotein synthesis (rats)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
R01HL-16152-06 Electrophysiology of neonafal to adulf heart (cafs, frogs, guinea pigs)
R01HL-16233-05 Molecular cardiology of MOP-induced left ventricular failure (dogs)
R01HL-16240-05 The cardiac hisfamine receptor (rabbits, guinea pigs)
R01HL-16436-04 Role of calcium and fhyroxine in heart function (rats)
P01HL-16769-05 0002 Pathobiologic and host defense reacfions in fhe lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
P60HL-17269-04 0019 National heart and blood vessel research and demonstration center - Sarcoplasmic reticulum (dog, rabbit, hamster, cat)
P50HL-17646-04 0017 Study of ischemic heart disease - Dysrhythmia associated wifh acute myocardial infarcfion (human, cat)
P50HL-17682-04 0020 Study of ischemic heart disease - Nucleotide and nucleoside metabolism in ischemic myocardium
R01HL-17729-04 Stimulus-response coupling in plafelets (human)
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)
R01HL-18070-04 Regulation of intrapulmonary airways and vassels (human, animals)
R01HL-18148-04 Adrenal catecholamine secretion
R01HL-18176-02 Effect of thyroid hormone on cultured cardiac calls (rats)
R01HL-18260-04 Cyclic nuclaotide matabolism in lung tissua (cattle)
R01HL-18272-03 Heart adenyl cyclase complax (beef heart)
R01HL-18280-03 Regulation of cardiac contractility and matabolism (rats)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessal matabolism (mammals)
R01HL-18682-03 Protain kinase and cholesterol matabolism in aorta (rabbits)
R01HL-18795-04 Ischemic errhythmies--Effect of autonomic tone (dogs, rats, guinea pigs)
P01HL-18827-02 0005 Platalet vessel wall interactions in thrombogenasis - Platelet vassel wall interactions in thrombogenesis (human)
** R01HL-18937-03 Cyclic nucleotides and calcium in platelets (human)
** R01HL-19027-03 Calcium and cyclic AMP in causation of hypertension (rats)
** R01HL-19057-03 Catecholaminas and cyclic AMP in cardiovascular system (rats, dogs)
R01HL-19062-03 Pharmacologic control of mast cell phosphodiesterase (human, rats)
** R01HL-19115-02 Hormonal control of trachaobronchial cyclic AMP (rats, guinea pigs)
R01HL-19132-04 Rola of zinc transfarrin in lymphocyte transformafion (human)
P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and narves in canina asthma
** R01HL-19181-02 Ragulation of haart cAMP-dependant protain kinase (rodants)
P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive mefabolitas from vascular muscle and paranchymal tissue (animal)
** P01HL-19242-02 0004 Study of vascular smooth muscle - Cyclic nucleotide metabolism in smooth muscle cultures (human, rats)
R01HL-19325-03 Phosphodiesferase inhibifion and muscle contraction
R01HL-19394-03 Biochemistry and regulafion of taurine in fhe heart (rafs, guinaa pigs, cats)
P01HL-19737-02 0002 Cellular and molecular aspecfs of respirafory physiology - Airway smooth muscle in health and disease (human, animals)
R01HL-19752-03 Phospholipid synthesis by fatal lung in organ culfura (rats)
● R01HL-20114-02 Collagen-plafelet interaction and human aorta collagen (human)
** R01HL-20125-02 Cyclic nucleofides and alveolar macrophage activation (rabbifs)
R01HL-20251-02 A novel approach to nonthrombogenic polymer surfaces (sheep, cattle)
R01HL-20300-02 Histone H5 and avian erythropoiesis (chickens, rabbits)
R01HL-20476-03 Effects of diabetes on cardiac performance (rat)
R01HL-20643-02 Analysis of heart cell confraction (rafs)
R01HL-20782-01 Coronary flow regulafion by adenosine (rats, dogs)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
P01HL-20948-02 0002 Molecular basis of cholesferol metabolism - LOL pafhway in cell lines with informative properties other than fibroblasts
R01HL-20956-02 Early events following stimulation of human plafelets
** P01HL-20984-02 0006 Cellular mechanisms in cardiac hypertrophy - Early biochemical aspects of cardiac hypertrophy (rats)
R01HL-21030-01 Calcium regulation and hypertension (rafs)
R23HL-21051-02 Adrenergic receptors and the adenylate cyclase system (frog RBC)
R01HL-21187-01 Potassium, norepinephrine, and coronary arterial tone (dogs)
R23HL-21320-02 Cyclic nucleotide metabolism in vascular endothelium
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug acfion (caf, guinea pig, rat)
R23HL-21409-02 Perinatal confrol of the ductus arteriosus (sheep)
R23HL-21413-02 Structure and function of platelef calcium-binding profein (human)
R23HL-21421-01 Myocardial and vascular contractility and cyclic nucleotides (cattle, rafs)
R01HL-21654-01 Autonomic determinanfs of arrhythmia due to ischemia (cats)
R01HL-21812-02 Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs)
R01HL-21850-01 Calcium transport in the hypertrophied myocardium (rafs, animals)
R01HL-21860-18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)
** R01HL-21995-01 Protein phosphorylation and adrenergic effecfs

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-22053-02 The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human)
R01HL-22064-02 Glycogen metabolism in anoxic diabetic myocardium (rats)
R01HL-22088-02 Metabolic basis for diabetic microangiopathy (cattle)
R01HL-22135-01 Control of calcium fluxes across cardiac membranes (dogs, rabbits, guinea pigs)
R01HL-22136-02 Histamine and cardiac adenyl cyclase
R01HL-22137-02 Structure-function pathology of isolated heart cells (mice, rats)
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
R01HL-22522-01 Cardioselectivity of beta-adrenoceptor antagonists
R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors
P01HL-22619-01 0003 Cellular mechanisms of heart failure - Digitalis induced inotropy in myocardial ischemia heart failure (animals)
P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)
R01HL-22812-01 Regulation of hepatic production of HDL (rats)
R01HL-22828-01 Adenosine and catecholamine interaction in the heart (rats)
R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R23HL-22984-01 Cyclic AMP dependent protein kinases in hypertension (rat)
R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)
R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)
R01HL-23587-01 Phosphorylation of myocardial protein (guinea pigs)
R01HL-23990-01 Role of phosphoprotein in cardiac inotropic responses

PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, ADENOSINE PHOSPHATES

SEE ALSO FLAVIN NUCLEOTIDES, RIBOFLAVIN NUCLEOTIDES, FAD
SEE ALSO PYRIDINE NUCLEOTIDES, NICOTINAMIDE RIBOTIDES, NAD(H2)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)

PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, ATP

SEE ALSO BIOLOGICAL TRANSPORT, TRANSPORT ENERGETICS
SEE ALSO COENZYMES, COENZYME A
R01HL-01974-24 Ion pump in the erythrocyte (rabbits, guinea pigs)
** R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
P01HL-06285-18 0173 Cardiovascular-respiratory physiology and biochemistry - Skeletal and cardiac muscle function
P01HL-06285-18 0200 Cardiovascular-respiratory physiology and biochemistry - Medullary counter-current system (animals)
** P01HL-06312-17 0052 Surgical cardiology - Assay of metabolic variables of rat heart
P01HL-06664-17 0040 Cardiopulmonary function in remediable vascular disease - The coupling of ion transport to metabolism (toads)
R01HL-06950-17 Red cell metabolism (human, vertebrates)
R01HL-07449-17 Formation and survival of red blood cells (human)
P01HL-07896-15 0030 Environmental biomedical research program - Narcosis caused by inert gases at raised pressures (human, animals)
** R01HL-09906-13 0018 Membrane transport processes in red blood cells - Rapid photolytic release of ATP from a protected analog--Na-K pump of RBC ghosts
R01HL-11154-12 Blood group antigens and antibodies (human)
P01HL-12157-11 0049 Functions and mechanisms of cell membrane ion transport - Ouabain-insensitive cation transport in duck red cells
P01HL-12157-11 0054 Functions and mechanisms of cell membrane ion transport - Simulation of electrogenic ion transport in cardiac muscle
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
P01HL-13262-07 0022 Arterial wall in atherosclerosis - Mechanisms of platelet prostaglanoin formation
R01HL-13567-06 Ion transport across cell membranes (human)
** P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
** R01HL-14344-07 Platelet function and adenine nucleotide metabolism (human)
P01HL-14388-07 0173 Regulation of the circulation in pathological states - Mechanisms of cardiac myosin ATPase
P01HL-14388-07 0194 Regulation of the circulation in pathological states - Dopamine-beta-hydroxylase localization and release in hypertension
R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
P60HL-15157-07 0009 Comprehensive center for sickle cell disease - Red cell membrane alterations during sickling (human)
P60HL-15157-07 0018 Comprehensive center for sickle cell disease - Red blood cell membrane physiology in sickle cell anemia (human)
R01HL-15391-07 EPR studies on rotational motion of myosin and actin
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
R01HL-15793-06 Molecular aspects of erythrocyte membrane resealing (human)
P01HL-15835-06 0001 Study of muscles related to heart disease - Control of contraction-relaxation of heart and muscle (rabbits, chickens)
** P01HL-15835-06 0011 Study of muscles related to heart disease - Energetics and mechanism of muscle contraction (frogs, rabbits)
P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
P01HL-15835-06 0013 Study of muscles related to heart disease - Cardiac bioenergetics (rats)
R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
R01HL-16355-05 Reactions of thrombin and collagen with platelets (human)
R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
R01HL-16678-03 Fluorescent probe studies of heart muscle proteins (rabbit, dog)
R01HL-16931-04 Red cell storage and transfusion (human, animals)
P50HL-17651-04 0041 Ischemic heart disease specialized center of research - Biochemical indices of ischemic injury (guinea pig)
P50HL-17670-04 0023 Study of ischemic heart disease - Energy metabolism in acute myocardial ischemic injury (dogs)
P50HL-17682-04 0010 Study of ischemic heart disease - Core clinical enzyme laboratory (human, mice, dogs, rats)
P50HL-17682-04 0018 Study of ischemic heart disease - Biochemistry of ischemia--Heart cell and organ culture (mice, rats, cattle)
** R01HL-18082-03 Erythrocyte phosphates and vertebrate gas transport (amphibians, reptiles)
P01HL-18208-04 0002 Center for the study of blood cell rheology - Holography of RBC shape (human)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
P01HL-18708-03 0003 Oxygen, energy and contractility in cardiac tissue - Structural-functional studies on cytochrome c oxidase
P01HL-18708-03 0004 Oxygen, energy and contractility in cardiac tissue - Structural-functional studies on sarcoplasmic reticulum (rabbits)
R01HL-18798-04 0001 Nervous and ionic factors in sudden cardiac death - Potassium loss during myocardial ischemia (rabbits)
R01HL-19299-03 Myoglobin and oxygen supply to heart and muscle cells (rats, pigeons)
R01HL-19378-03 Relation of mitochondrial changes to cardiac failure (dogs, rats)
R01HL-19488-03 Picosecond laser studies of heme-proteins
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-19675-02 Coronary pharmacoangiography
P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport
R01HL-20241-02 Shear and area moduli for abnormal red cell membranes (human)
R01HL-20262-02 Cardiac glycosides and the mechanism of the sodium-potassium pump
R01HL-20278-02 Cellular mechanisms of renin secretion (rats)
R01HL-20484-03 Effects of diabetes on cardiac function and metabolism (rats)
P01HL-20581-01 0004 Vascular neuroeffector mechanisms in health and disease - Neuroeffector characteristics of mesenteric and pulmonary blood vessels (rabbits)
P01HL-20592-02 0012 Cell biology of cardiac and skeletal muscle - Contractile properties of skinned muscle fibers (frogs)
R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-20902-02 Studies on marginal band system of erythrocytes (amphibians, reptiles, fish)
R01HL-20956-02 Early events following stimulation of human platelets
P01HL-21016-02 0011 Sickle cell anemia and other hemoglobinopathies - Metabolic effects of anti-sickling agents (hamsters)
** R23HL-21128-02 ATP utilization in platelet contractile mechanisms (human, rabbits)
R23HL-21213-01 A model for calcium homeostasis in excitable tissue (marine worms)
R23HL-21488-01 Myosin-linked regulation in vertebrate smooth muscle (calf aorta)
R23HL-21842-01 Control of sugar entry in normal and diabetic heart (rats)
R01HL-22194-02 Allosteric function of platelet contractile proteins (human)
R01HL-22290-01 Cardiac energy metabolism and protein synthesis (mice)
R01HL-22401-01 Regulation of tension and active state in the heart
R01HL-23138-01 Myocardial ischemia (dogs, rats, chick embryo)
** R01HL-23140-01 Determinants of irreversible ischemic injury in heart (dog, rat)
R01HL-23153-01 Mechanisms of altered CA20 transport in ischemic heart (dog, rabbit)
R01HL-23240-01 Pulmonary vascular muscle metabolism and contractility (rats, cattle)
R01HL-23994-01 Biochemical properties of human cardiac myosin

PURINE NUCLEOTIDES, ADENINE NUCLEOTIDES, POLYADENYLIC ACID

R01HL-04442-20 Mitochondrial assembly and replication (fungi, wheat)

PURINE NUCLEOTIDES, GUANINE NUCLEOTIDES, GMP

R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
R01HL-19148-03 Myocardial organelle lipid structure and function (dog, rat)
R23HL-21409-02 Perinatal control of the ductus arteriosus (sheep)
R01HL-22088-02 Metabolic basis for diabetic microangiopathy (cattle)
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)

PURINE NUCLEOTIDES, GUANINE NUCLEOTIDES, GMP CYCLIC

P01HL-06308-18 0025 Mechanisms and therapy of circulatory disease - Subcellular calcium pools in the genesis of arrhythmias (dogs)
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
** P01HL-06314-17 0053 Immunologic mechanisms in cardiovascular disease - Cellular functions controlled by cyclic GMP (human, mice, guinea pigs)
P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology
R01HL-11880-10 Physiology and pathology of blood platelets (human, dogs)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
R01HL-13715-08 Myocardial adenyl cyclase (rats)
R01HL-13936-06 Microvascular responses in hypertension (human, rats)
P50HL-14214-07 0015 Newborn lung center for hyaline membrane disease - Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal)
R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
P50HL-15092-07 0005 Immune and fibrotic response to occupational environments - Respiratory and immunologic evaluation of toluene diisocyanate exposure (human)
R01HL-15447-06 Vascular role of prostaglandin and cyclic nucleotides (rats)
** R01HL-15696-06 Mechanism and role of cyclic GMP in heart (animals)
R01HL-15985-06 Metabolic and hormonal control of cardiac contraction
R01HL-16436-04 Role of calcium and thyroxine in heart function (rats)
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
R01HL-16938-05 Effect of physical forces on blood (dogs, human)
P50HL-17646-04 0017 Study of ischemic heart disease - Dysrhythmia associated with acute myocardial infarction (human, cat)
P50HL-17682-04 0020 Study of ischemic heart disease - Nucleotide and nucleoside metabolism in ischemic myocardium
R01HL-17907-04 Brain regulation of cardiac arrhythmia (pigs, cats, rats)
R01HL-18260-04 Cyclic nucleotide metabolism in lung tissue (cattle)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-18280-03 Regulation of cardiac contractility and metabolism (rats)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
R01HL-18795-04 Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs)
R01HL-18937-03 Cyclic nucleotides and calcium in platelets (human)
R01HL-19062-03 Pharmacologic control of mast cell phosphodiesterase (human, rats)
P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
** P01HL-19242-02 0004 Study of vascular smooth muscle - Cyclic nucleotide metabolism in smooth muscle cultures (human, rats)
R01HL-19325-03 Phosphodiesterase inhibition and muscle contraction
** R01HL-20125-02 Cyclic nucleotides and alveolar macrophage activation (rabbits)
R01HL-21030-01 Calcium regulation and hypertension (rats)
R01HL-21187-01 Potassium, norepinephrine, and coronary arterial tone (dogs)
R01HL-21195-02 Innervation of the heart--Acetylcholine receptors (frogs)
R23HL-21320-02 Cyclic nucleotide metabolism in vascular endothelium
R23HL-21421-01 Myocardial and vascular contractility and cyclic nucleotides (cattle, rats)
R01HL-21654-01 Autonomic determinants of arrhythmia due to ischemia (cats)
R01HL-22064-02 Glycogen metabolism in anoxic diabetic myocardium (rats)
R23HL-22075-01 Metabolism of arachidonic acid in blood vessels (chickens, mammals)
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors
R23HL-22775-01 Muscarinic receptors in the developing heart (chick embryo)
R01HL-22836-01 The spontaneously hypertensive kidney (rats)
R01HL-23025-01 Adaptive heart growth in neonates and adults (rats)
R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)

PURINE NUCLEOTIDES, GUANINE NUCLEOTIDES, GUANOSINE PHOSPHATES
R01HL-07449-17 Formation and survival of red blood cells (human)

PURINE NUCLEOTIDES, GUANINE NUCLEOTIDES, GTP
R01HL-06950-17 Red cell metabolism (human, vertebrates)
R01HL-16931-04 Red cell storage and transfusion (human, animals)
R01HL-20544-02 Integrated regulation of myocardial energy metabolism (rats, guinea pigs)
R01HL-22290-01 Cardiac energy metabolism and protein synthesis (mice)

PURINE NUCLEOTIDES, HYPOXANTHINE NUCLEOTIDES, INOSINE MONOPHOSPHATE
P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
** R01HL-18984-01 P50 effect on exercise limit in stable angina (human)

PURINES
SEE ALSO PURINES-PYRIMIDINES METABOLISM ERRORS
P01HL-20581-01 0004 Vascular neuroeffector mechanisms in health and disease - Neuroeffector characteristics of mesenteric and pulmonary blood vessels (rabbits)

PURINES, ADENINE
R01HL-16931-04 Red cell storage and transfusion (human, animals)

PURINES, GUANINE
P01HL-06312-17 0034 Surgical cardiology - Metabolic factors in cardiac function--Creatine phosphate depletion (animals)

PURINES, HYPOXANTHINE
P50HL-14217-08 0059 Specialized center of research in thrombosis - Energy metabolism and platelet function (human)
R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
R01HL-23140-01 Determinants of irreversible ischemic injury in heart (dog, rat)

PURINES, OXYPURINES
SEE ALSO PURINES, HYPOXANTHINE
SEE ALSO PURINES, URIC ACID
SEE ALSO PURINES, XANTHINES
** R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors

PURINES, URIC ACID
SEE ALSO PURINES-PYRIMIDINES METABOLISM ERRORS, GOUT
SEE ALSO PURINES-PYRIMIDINES METABOLISM ERRORS, HYPERURICEMIA
P50HL-14141-05 0008 SCOR for atherosclerosis in childhood - Core laboratory
** P60HL-15170-05 0019 Support for center for sickle cell anemia - Renal handling of uric acid in sickle cell anemia (human)
** P60HL-16005-05 0019 Comprehensive sickle cell center - Handling of uric acid in sickle cell anemia (human)
R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
N01HV-62955-04 Data collection in clinical pathology and morbid anatomy (men)

PURINES, XANTHINES
P01HL-16607-05 0003 Calcium ion and control of cardiovascular function - Calcium transport in sarcoplasmic membranes (animals)
P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)
P50HL-19153-02 0003 SCOR--Pulmonary edemas--Etiology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
** R01HL-19325-03 Phosphodiesterase inhibition and muscle contraction
R01HL-22566-01 Mesoionic purinones as phosphodiesterase inhibitors

PURINES, XANTHINES, AMINOPHYLLINE
R01HL-10384-13 Blood flow and nucleotide metabolism (animals)
R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
R01HL-19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)

PURINES, XANTHINES, CAFFEINE
R01HL-12774-08 Ionic coupling in activation of cardiac muscle (frogs, guinea pigs)
P01HL-15835-06 0012 Study of muscles related to heart disease - Contraction and energetics of visceral and vascular smooth muscles (rabbits)
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
** R01HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
R01HL-18050-04 Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo)
R01HL-19325-03 Phosphodiesterase inhibition and muscle contraction
R01HL-21145-02 Response of atria to hyperosmolality--Mechanisms (rabbits)
R23HL-21320-02 Cyclic nucleotide metabolism in vascular endothelium
R23HL-21325-02 Sarcomere kinematics in cardiac contraction (rats, rabbits)
R01HL-21670-01 Antiarrhythmic studies on 2-substituted aminoindenes (dogs)

PURINES, XANTHINES, THEOPHYLLINE
SEE ALSO PURINES, XANTHINES, AMINOPHYLLINE
P50HL-14153-07 0011 Johns Hopkins Lung Center--Chronic diseases of airways - Allergy, airways reactivity and asthma in human ragweed allergy
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
R01HL-20643-02 Analysis of heart cell contraction (rats)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)

PURINES-PYRIMIDINES METABOLISM ERRORS
P60HL-17265-04 0008 Community blood resource center support - Research-Blood genetic markers as biological probes (human)

PURINES-PYRIMIDINES METABOLISM ERRORS, GOUT
SEE ALSO PURINES-PYRIMIDINES METABOLISM ERRORS, HYPERURICEMIA
P60HL-16005-05 0019 Comprehensive sickle cell center - Handling of uric acid in sickle cell anemia (human)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons

PURINES-PYRIMIDINES METABOLISM ERRORS, GOUT DRUGS
SEE ALSO DISEASES, PATHOLOGIC PROCESSES, INFLAMMATION, ANTIINFLAMMATORY AGENTS
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)

PURINES-PYRIMIDINES METABOLISM ERRORS, HYPERURICEMIA
SEE ALSO PURINES-PYRIMIDINES METABOLISM ERRORS, GOUT
P60HL-15170-05 0019 Support for center for sickle cell anemia - Renal handling of uric acid in sickle cell anemia (human)
P60HL-16005-05 0019 Comprehensive sickle cell center - Handling of uric acid in sickle cell anemia (human)
R01HL-16774-04 Genetic epidemiology of hyperlipemia (Honolulu)
R01HL-21010-02 Glycemia, other traits and CV death in 40,000 persons

PURKINJE CELLS, CEREBELLAR
SEE BRAIN, CEREBELLAR CORTEX, PURKINJE CELLS

PURKINJE FIBERS
SEE HEART, CONDUCTION SYSTEM, PURKINJE FIBERS

PURPLE MEMBRANE, BACTERIAL
SEE PIGMENTS, BACTERIAL, BACTERIORHODOPSIN-RETINAL

PURPURA, FIBRINOLYTIC
SEE BLOOD COAGULATION DISORDERS, AFIBRINOGENEMIA

PURPURA HEMORRHAGICA
SEE BLOOD PLATELETS DISORDERS, THROMBOCYTOPENIC PURPURA

PURSUIT TRACKING
SEE PSYCHOMOTOR FUNCTION, TRACKING TASK

PUTRESCINE
SEE AMINES, PUTRESCINE

PVC
SEE HEART DISORDERS, ARRHYTHMIA, PREMATURE VENTRICULAR CONTRACTIONS

PYELONEPHRITIS
SEE KIDNEY DISORDERS, PYELONEPHRITIS

PYRAMIDAL TRACTS
SEE NERVOUS SYSTEM CENTRAL, PYRAMIDAL TRACTS

PYRANS
SEE OXINS, PYRANS

PYRAZINAMIDES, AMILORIDE
P01HL-06664-17 0039 Cardiopulmonary function in remediable vascular disease - Transepithelial active transport and cell volume regulation (frogs)

PYRAZOLIDINEDIONES, SULFINPYRAZONE
R01HL-11775-11 Platelet mechanisms in disease (human, primates)
R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)
P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
R01HL-19112-03 Atherosclerosis studies (monkeys)
P01HL-22163-01 0003 Surface thrombogenesis--Mechanisms and prevention - In vivo mechanisms of biomaterial thrombogenesis and its prevention (baboons)

PYRAZOLONES, PHENYLBUTAZONE
P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)

PYRAZOLOPYRIMIDINES
SEE DIAZOLODIAZINES, PYRAZOLOPYRIMIDINES

1H-PYRAZOLO(3,4-D)PYRIMIDIN-4-OL
SEE DIAZOLODIAZINES, PYRAZOLOPYRIMIDINES, ALLOPURINOL

PYRENES
SEE CYCLICS, CARBOPOLYCYCLICS, PYRENES

PYRIDINAMIDES, DISOPYRAMIDE
R01HL-21221-02 Clinical antiarrhythmic and pharmacodynamic studies

PYRIDINAMIDES, NICOTINAMIDE
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)

PYRIDINAMIDES, NICOTINAMIDE, N-METHYL-
R01HL-02835-21 Renal transport carrier for organic compounds (dogs, rats)

PYRIDINE CARBOXYLIC ACIDS, ISONICOTINIC ACID
SEE ALSO AZO COMPOUNDS, HYDRAZINES, ISONIAZID
R01HL-22981-17 Membrane-associated functions in microorganisms (bacteria, protozoa)

PYRIDINE CARBOXYLIC ACIDS, NICOTINIC ACID
R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
R01HL-08888-12 Cooperative study of drugs and coronary heart disease (men)
R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)
** R01HL-11901-12 0006 Effects of metabolic surgery on the hyperlipidemias - Drug therapy with ileal bypass (rabbits)
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
P50HL-14236-05 0009 Prevention of premature arteriosclerosis - Clinical studies on cholesterol metabolism (human)
P50HL-14237-07 0006 Support for arteriosclerosis center - Drug treatment of familial hyperbetalipoproteinemia (human)
R01HL-15374-03 Cooperative study of drugs and coronary heart disease (human)
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
P01HL-20993-02 0004 Population dynamics of arterial cells in atherogenesis - Modifications of cholesterol balance related to arterial cell divisions (swine)

PYRIDINE NUCLEOTIDES
R01HL-19491-03 Mechanism of iron storage and mobilization by ferritin (horse)
R01HL-22315-01 Intraoperative cardiac oxygen supply-demand (dogs, rabbits, rats)

PYRIDINE NUCLEOTIDES, NICOTINAMIDE RIBOTIDES, NAD(H2)
SEE ALSO NAD LINKED ENZYMES
P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)
P01HL-06285-18 0179 Cardiovascular-respiratory physiology and biochemistry - Regulation of myocardial cell growth (rats, chick embryo)
P01HL-07896-15 0032 Environmental biomedical research program - Fluorometry study of brain exposed to hyperbaric oxygen (dogs, cats)
R01HL-13028-09 Regulation of myocardial fatty acid metabolism (rats)
R01HL-13035-08 Heart mitochondrial malate dehydrogenase regulation
R01HL-13302-09 Uptake and metabolism of lipids by the liver (rats)
R01HL-14730-07 Fatty acid beta-oxidation in normal and ischemic hearts (rabbits)
P01HL-17421-05 0007 Regulation and exchange in the microcirculation - Core facilities--Fluorometric measurement methods for microcirculation
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-20116-01 Heart lactate dehydrogenase--The complex with NADH (pig)

PYRIDINES
SEE ALSO ACRIDINES
SEE ALSO PESTICIDES, HERBICIDES, PARAQUAT
SEE ALSO QUINOLINES
SEE ALSO SULFANILAMIDES, SALICYLAZOSULFAPYRIDINE
R01HL-12395-10 X-ray study of oxygen-carrying cobalt complexes
R01HL-20579-02 Synthesis of therapeutically important alkaloids

PYRIDINES, AMINOPYRIDINES
R01HL-22426-01 Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits)

PYRIDINES, HYDROPYRIDINES
R01HL-16003-08 Sources and roles of calcium in smooth muscle excitation (rats)

PYRIDINES, METYRAPONE
** P01HL-06835-17 0059 Cardiovascular disease - Metyrapone-induced hypertension in dog
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
R01HL-23969-01 Surfactant synthesis by type II cells in vitro (rats)

PYRIDINES, NICOTINE
SEE ALSO CONSUMER PRODUCTS, TOBACCO AND TOBACCO PRODUCTS
SEE ALSO PSYCHOLOGY, HABITS, SMOKING
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
P01HL-14388-07 0155 Regulation of the circulation in pathological states - Cardiopulmonary afferent activity, carotid chemo-baroreceptor reflexes
P60HL-17269-04 0016 National heart and blood vessel research and demonstration center - New analytical methodology for atherosclerosis studies
P60HL-17269-04 0042 National heart and blood vessel research and demonstration center - Social-psychological smoking deterrents in schools
R01HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
R01HL-18517-03 Intrinsic innervation of the heart (dogs)
P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of cigarette smoking on atherosclerosis (baboon)
R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)

PYRIDINOLS
P01HL-20993-02 0005 Population dynamics of arterial cells in atherogenesis - Drugs other than hypolipidemic drugs affecting atherosclerosis (swine, rabbits)

PYRIDOXAL ANALOGS
SEE VITAMIN B6, PYRIDOXAL ANALOGS

PYRIMIDINE NUCLEOSIDES, CYTOSINE NUCLEOSIDES, CYTOSINE ARABINOSIDE
R01HL-20856-02 Platelet transfusions--Usage and complications (human)

PYRIMIDINE NUCLEOSIDES, URACIL NUCLEOSIDES, URIDINE
P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)

PYRIMIDINE NUCLEOTIDES, URACIL NUCLEOTIDES, URIDINE DIPHOSPHATE
** R01HL-01813-25 Regulation of metabolism by drugs and hormones (rats)

PYRIMIDINES, ALLOXAN
P01HL-08805-15 0025 Regulation of ventilation and pulmonary circulation - Pulmonary edema (rabbits)

PYRIMIDINES, BARBITURATES
P01HL-06285-18 0147 Cardiovascular-respiratory physiology and biochemistry - Metabolic regulation of cerebral microcirculation (cats)
P01HL-08682-15 0037 Regulation of the cardiovascular system - Central nervous regulation of cardiopulmonary mechanisms (cats)
R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
R01HL-17091-05 Anesthetics and microvascular response to hemorrhage (rats)
R01HL-18590-03 Cerebral blood flow after cardiac arrest (dogs, monkeys)
P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-21476-02 Anticoagulant drug absorption interactions (rats)

PYRIMIDINES, BARBITURATES, PENTOBARBITAL
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
P01HL-11678-11 0059 Cardiovascular dynamics and their control - Basic hemodynamics (dogs, rats)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
R01HL-19256-03 Arterial baroreceptors in cardiovascular control (dogs)

PYRIMIDINES, BARBITURATES, PHENOBARBITAL
R01HL-14847-07 Mechanism of action of vitamin K and anticoagulants (rats)
R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)

PYRIMIDINES, BARBITURATES, THIOPENTAL
** P01HL-21584-02 0004 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on respiratory mechanics (dogs)

PYRIMIDINES, MINOXIDIL
P01HL-06835-17 0037 Cardiovascular disease - Cardiac hypertrophy in spontaneously hypertensive rat
P01HL-06835-17 0053 Cardiovascular disease - Vasodilating drugs (human)
P01HL-06835-17 0057 Cardiovascular disease - Studies on cardiac hypertrophy
P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
R01HL-19112-03 Atherosclerosis studies (monkeys)
R01HL-22603-01 Trace metals, vascular activity and hypertension (rats)

PYRIMIDINES, OROTIC ACID
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

PYROPHOSPHATE INFARCT IMAGING
SEE HEART VISUALIZATION*

PYROPHOSPHATES
SEE PHOSPHATES, PYROPHOSPHATES

PYRROLIDINEDIONES, MALEIMIDES
P01HL-16833-04 0001 Hemoglobin and red cell system in hemoglobinopathies - Motility, association and ligand binding in hemoglobin--Hydrogen exchange
P01HL-16833-04 0003 Hemoglobin and red cell system in hemoglobinopathies - Oxygen binding curves and equilibria (human)
P01HL-16833-04 0009 Hemoglobin and red cell system in hemoglobinopathies - Rheological studies of sickled cells (human)
P01HL-16833-04 0015 Hemoglobin and red cell system in hemoglobinopathies - Stereochemistry of hemoglobins from magnetic circular dichroism (human)
P01HL-16833-04 0017 Hemoglobin and red cell system in hemoglobinopathies - Sulfhydryl group blockade antisickling effect (human)
P01HL-16851-04 0006 Human red cell membrane in health and disease - Hexose transport and erythrocyte membrane proteins (human)

PYRROLIDINES
SEE ALSO PYRIDINES, NICOTINE
P01HL-08214-15 0006 Chemical and biological properties of lipids - Analysis and properties of lipids

PYRROLIZIDINE ALKALOIDS, SENECIO
SEE ALKALOIDS, SENECIO

PYRROLIZINE ALKALOIDS, MONOCROTALINE
SEE ALKALOIDS, MONOCROTALINE

PYRUVATE DEHYDROGENASE
SEE OXIDOREDUCTASES, PYRUVATE DEHYDROGENASE

PYRUVATE KINASE DEFICIENCY
SEE METABOLIC DISORDERS INBORN, PYRUVATE KINASE DEFICIENCY

PYRUVATE OXIDASE
SEE OXIDOREDUCTASES, PYRUVATE OXIDASE

PYRUVATES
SEE FATTY ACIDS, PYRUVATES

QUADRUPLETS
SEE FAMILY, TWINS AND MULTIPLETS

QUAIL
SEE BIRDS, QUAIL*

QUALITY, DIAGNOSTIC
SEE DIAGNOSTIC QUALITY-STANDARDS

QUALITY OF DRUGS
SEE DRUG QUALITY-STANDARDS

QUALITY OF HEALTH CARE
SEE HEALTH CARE QUALITY

QUANTUM (CHEMISTRY)
SEE CHEMISTRY, QUANTUM (GENERAL)

QUATERNARY AMMONIUM COMPOUNDS
SEE AMMONIUM QUATERNARY

QUEBRACHINE
SEE ALKALOIDS, RAUWOLFIA TYPE, YOHIMBINE

QUESTIONNAIRES
SEE INFORMATION GATHERING (DATA COLLECTION), QUESTIONNAIRES

QUINACRINE
SEE ACRIDINES, QUINACRINE

QUINIDINE
SEE QUINUCLIDINES, QUINIDINE

(contd)

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QUINOLINE BLUE
SEE CYANINE

QUINOLINES
SEE ALSO QUINUCLIDINES, QUINIDINE
R01HL-20579-02 Synthesis of therapeutically important alkaloids

QUINOLINES, BISBENZYLISOQUINOLINES
R01HL-12971-15 Reactions of alkoloids and their analogs

QUINOLINES, CHLOROQUINE
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
P01HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
P01HL-16833-04 0014 Hemoglobin and red cell system in hemoglobinopathies - Erythrocyte membrane damage in Hb SS disease (human)
P50HL-17669-04 0011 Ischemic heart disease center (SCOR) - Lysosomal function and lysosomal enzymes in normal and ischemic heart (rabbit)
P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts

QUINOLINES, ISOQUINOLINES
SEE ALSO ALKALOIDS, BERBINES
R01HL-12971-15 Reactions of alkoloids and their analogs
R01HL-20579-02 Synthesis of therapeutically important alkaloids

QUINOLINES, ISOQUINOLINES, PAPAVERINE
P01HL-14388-07 0157 Regulation of the circulation in pathological states - Autoregulation of renal blood flow and distribution in sodium excretion control
R01HL-19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
R01HL-19675-02 Coronary pharmacoangiography
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
R23HL-22975-01 Dynamics of autoregulation of muscle blood flow (dogs)
R01HL-23312-01 Hemodynamics and vasoactivity in renal hypertension (human, dogs)

QUINONE REDUCTASE
SEE DXIDOREDUCTASES, NAD(P)H DEHYDRDGENASE (QUINONE)

QUINONES
SEE ALSO VITAMIN K
R01HL-20577-03 The mechanism of action of vitamin K

QUINTUPLETS
SEE FAMILY, TWINS AND MULTIPLETS

QUINUCLIDINES
P01HL-20984-02 0005 Cellular mechanisms in cardiac hypertrophy - Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals)
R01HL-23013-01 Smooth muscle development in vitro (chick embryo)

QUINUCLIDINES, QUINIDINE
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
P01HL-06308-18 0029 Mechanisms and therapy of circulatory disease - Characterization of the patient with recurrent ventricular arrhythmias
P01HL-06308-18 0037 Mechanisms and therapy of circulatory disease - Electrophysiology, blood flow, and ANS in ventricular fibrillation (dogs)
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
P01HL-12373-10 0013 Cardiopulmonary physiology and pathophysiology - Effects of cardiovascular drugs on left ventricular function (dogs)
P01HL-12738-10 0044 Physiologic pharmacology and its clinical applications - Cardioactive drugs and electrophysiological properties of cardiac cells (sheep)
P01HL-12738-10 0136 Physiologic pharmacology and its clinical applications -
P01HL-13108-09 0008 Clinical heart transplantation - Physiology and pharmacology of the transplanted human heart
P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
RD1HL-14899-07 Mechanism and prevention of cardiac arrhythmias (dogs)
R01HL-16076-06 Electrophysiology of fibrillation and defibrillation (human)
R01HL-16710-03 Myocardial subcellular localization of calcium (dogs)
R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
R01HL-21221-02 Clinical antiarrhythmic and pharmacodynamic studies
R01HL-21672-01 Antiarrhythmic drug action on VMAZ of cardiac cells
R01HL-21742-01 Frequency-dependent drug actions in cardiac muscle (rabbits)
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)

RABBITS
SEE MAMMALS, LAGDMDRPHS*

RACIAL FACTORS IN HYPERTENSION
SEE CARDIDVASCULAR DISDRDERS, HYPERTENSION (SYSTEMIC), GENETICS-ASSOCIATED

RACIAL STOCKS
SEE SOCIAL GROUPS, RACIAL STDCKS

RADIATION, ELECTROMAGNETIC WAVES
SEE ALSO PHDTDBIDLDGY
SEE ALSO PHDTDCHEMISTRY
R01HL-20716-02 Freezing and electromagnetic thawing of platelets (rats)

RADIATION, ELECTROMAGNETIC WAVES, MICROWAVE RADIATION
SEE ALSO TEMPERATURE, HEAT, MICRDWAVE HEATING
R01HL-19848-02 Contractile activation by rapid temperature jumps (frogs)
** R01HL-20077-02 External cardiac stimulation with microwave radiation (dogs)
** R01HL-20110-02 Microwave methods of lung water measurement (dogs, phantom models)

RADIATION, IONIZING RADIATION
R01HL-21194-02 Development of antithrombogenic plastic biomaterials

RADIATION, NEUTRON RADIATION
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)

RADIATION, PARTICLE ACCELERATORS
** P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
R01HL-16553-05 Diagnosis of myocardial infarction by radioisotopes (mice, rats, goats)
R01HL-20677-02 Radionuclide studies in congenital heart disease

RADIATION EFFECTS
SEE ALSD RADIATIDN SENSITIVITY
** P01HL-07896-15 0046 Environmental biomedical research program - Treatment of radiation induced tissue injury by hyperbaric oxygen (human)
R01HL-08696-15 0012 Orthotopic heart transplantation - Transplantation immunology--Modulation of donor antigenicity (dogs)
P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
P50HL-14212-07 0014 Correlated studies of pulmonary fibrosis - Pulmonary lavage cells, secretions in diffuse intersititial lung disease (human)
R01HL-14826-05 External isotope assay of atherosclerosis (rats, rabbits)
P50HL-15061-07 0004 Response of lung to injury - Biochemical abnormalities in connective tissues (rats)
R01HL-15526-05 Respiratory mechanics in children
** R01HL-15740-06 In vitro studies on heart cell function (rats)
R01HL-16119-05 Spleen and marrow allografts in hereditary anemia (mice)
P01HL-16387-04 0003 The blood vessel and thrombogenesis - Blood vessel healing (rabbits)
R01HL-19488-03 Picosecond laser studies of heme-proteins
R01HL-20895-03 0006 Cineangiographic studies of cardiovascular system - Cardiomyopathy--Hemodynamic, radiologic, morphologic abnormalities (dog, rabbit)
** R01HL-21589-01 Radiographic contrast toxicity in ischemic heart
N01HV-32950-08 Blood compatible poly-electrolytes

RADIATION HAZARDS
SEE RADIDLDGICAL HEALTH, RADIATION HAZARDS

RADIATION IMMUNOSUPPRESSION
SEE IMMUNITY, IMMUNDSUPPRESSIDN, RADIATION IMMUNDSUPPRESSIDN

RADIATION SENSITIVITY
** R01HL-22371-01 Vascular changes in lung exposed to radiation

RADIATION STUDY SECTION
** RD1HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)
** R01HL-12715-10 Dynamic cardiovascular measurement using ultrasound
M R01HL-14148-07 The regional circulations
** R01HL-14826-05 External isotope assay of atherosclerosis (rats, rabbits)
** R01HL-15781-06 Guided vascular obliteration of CNS vascular lesions (human)
** R01HL-16260-04 Development of clinical cine ultrasound cardiography
** R01HL-16484-04 Radiographic ventriculometry for coronary heart disease (human)
** R01HL-16487-05 Computer controlled two dimensional echocardiography
** R01HL-16553-05 Diagnosis of myocardial infarction by radioisotopes (mice, rats, goats)
** R01HL-16759-05 Ultrasonic measurement of cardiac geometry and flow
** R01HL-16830-05 Non-invasive determination of aortic blood velocities (human)
** R01HL-17739-04 Acute myocardial infarct scintigraphy (human, dogs, rats)
** R01HL-17769-03 New methods of studying blood coagulation kinetics
** R01HL-18873-02 Early radiologic diagnosis of cardiac failure (monkey)
** R01HL-19019-03 Accurate transcutaneous Doppler blood flow monitoring
** R01HL-19232-03 ECHO changes in wall motion with myocardial ischemia
** R01HL-19289-03 Assessment of infusion methods for myocardial mapping (dogs)
** R01HL-19341-03 Ultrasonic detection of the atherosclerotic plaque
** R01HL-19406-03 Grading of atherosclerosis by CW doppler ultrasound (human, dogs)
** R01HL-19537-03 Detection of myocardial injury with ultrasound (dogs)
** R01HL-19675-02 Coronary pharmacoangiography
** R01HL-19791-02 Ultrasonic monitoring visceral blood vessels
** R01HL-20274-02 Gated imaging with the MGH x-ray camera
** R01HL-20674-02 Evaluation of cardiac function with radioactive tracers
** R01HL-20677-02 Radionuclide studies in congenital heart disease
** R01HL-20761-02 Study of cerebral blood flow with stable xenon and computerized tomography
** R01HL-20869-01 Microvascular responses to ultrasound
** R01HL-20872-02 Multidimensional echo imaging of the ischemic heart
** R01HL-20943-02 Comparision of microsphere and RBC behavior in vivo
** R01HL-21273-02 Fibrinogen labeling with radiometals
** R01HL-21276-02 Development of 99-mTc myocardial imaging agents
** R23HL-21279-02 Angiographic estimation of atherosclerotic wall thickness
** R01HL-21589-01 Radiographic contrast toxicity in ischemic heart
** R01HL-21985-01 Videoroentgenography in congenital heart disease
** R01HL-22178-01 Lung airway properties by acoustic impulse reflection
** R01HL-22371-01 Vascular changes in lung exposed to radiation
** R01HL-22512-01 Ultrasonic instrumentation for cardiovascular studies
** R01HL-23983-01 Quantitative radiocardiography (human, dogs)

RADIATION THERAPY
SEE ALSO NEOPLASTIC THERAPY, CANCER RADIDTHERAPY
SEE ALSD PHDTDTHERAPY
** P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immune response (dogs)

RADIO
SEE ELECTRONIC STIMULATDRS, RADIDFREQUENCY CDNTRDLLED

RADIOASSAY, SCINTILLATION CAMERAS*
SEE ALSD RADIDGRAPHY, FLUDRDSCDPY, AUTDFLUDRDSCDPY*
R01HL-21707-01 Quantification of infarct size by emission tomography (human, dogs)

RADIOASSAY, SCINTILLATION CAMERAS, POSITRON*
** P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
P50HL-17665-04 0027 Study of ischemic heart disease - Positron imaging of regional myocardial perfusion (human, dog)

RADIOASSAY, SCINTILLATION COUNTERS*
P01HL-06314-17 0052 Immunologic mechanisms in cardiovascular disease - Role of cyclic nucleotides in neutrophil function (human)
P5DHL-14212-07 0013 Correlated studies of pulmonary fibrosis - Mechanism of beryllium pathogenicity in the lung (human, rabbit, guinea pig)

RADIOAUTOGRAPHY*
SEE ALSD HEART VISUALIZATIDN, RADIDCARDIDGRAPHY*
SEE ALSD RADIDASSAY, SCINTILLATIDN CDUNTERS*

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

SEE ALSO RADIODIAGNOSIS AND RADIODIAGNOSTIC METHODS, RADIOISOTOPE DIAGNOSIS
SEE ALSO RADIOGRAPHY, FLUOROSCOPY, AUTOFLUOROSCOPY*
R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
P50HL-19155-02 0005 Pathophysiology of pulmonary edema - Protein exchange sites and lymph protein concentration in lung (mice, sheep)
P50HL-19171-02 0008 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Electron microscopy, radioautography, histochemistry
R01HL-19933-02 Membrane and red cell dysfunction in hemolytic anemia (human)
R01HL-20895-03 0007 Cineangiographic studies of cardiovascular system - Determinants of collateral formation (dogs, hamsters)
P01HL-20994-02 9003 Dynamics of neutrophil elastase in the lung - Autoradiography--Histology core
R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
P01HL-22602-01 9001 Pathophysiology of the endothelium - Morphology core

RADIOAUTOGRAPHY, RADIOISOTOPE TOMOGRAPHY*

SEE ALSO RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING, POSITRON AXIAL TOMOGRAPHY*
R01HL-21276-02 Development of 99-mTc myocardial imaging agents
R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
** R01HL-21707-01 Quantification of infarct size by emission tomography (human, dogs)

RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING*

SEE ALSO RADIOAUTOGRAPHY, RADIOISOTOPE TOMOGRAPHY*
P01HL-04664-18 0006 Cardiovascular and lung dynamics - Cross section imaging of organ functions using emitted radiation (dogs)
P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
P50HL-14187-07 0008 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary thromboembolism (dogs, human)
P50HL-14217-08 0052 Specialized center of research in thrombosis - Radioisotope nuclear medicine section (human, dog)
P50HL-17648-04 0034 Study of ischemic heart disease - Data management--Hemodynamic data
** P50HL-17655-04 0011 Study of ischemic heart disease - Core facility--Cardiovascular nuclear medicine (human, dog)
P50HL-17665-04 0011 Study of ischemic heart disease - Development of new methods for the determination of infarct size (dog, human)
** P50HL-17669-04 0009 Ischemic heart disease center (SCOR) - Infarct volume--99Tc stannous pyrophosphate myocardial scintigrams (dogs, human)
** P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
P50HL-17670-04 0015 Study of ischemic heart disease - Radionuclide studies of myocardial ischemia (human)
** P50HL-17670-04 0020 Study of ischemic heart disease - Radionuclide evaluation of coronary artery disease (human, dog)
P50HL-17682-04 0005 Study of ischemic heart disease - Regional myocardial perfusion deficits and segmental contraction disorders in man
P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
P01HL-18576-03 0013 Thrombosis research program project - Early warning and monitoring test systems in thrombotic disease (human)
** R01HL-20674-02 Evaluation of cardiac function with radioactive tracers
** R01HL-20677-02 Radionuclide studies in congenital heart disease
R01HL-20761-02 Study of cerebral blood flow with stable xenon and computerized tomography
R01HL-20895-03 0003 Cineangiographic studies of cardiovascular system - Densitometry in coronary stenosis (human)
** P50HL-21006-02 0005 Specialized center of research in arteriosclerosis - Regional myocardial perfusion in patient with coronary artery disease (also dogs)
R01HL-21273-02 Fibrinogen labeling with radiometals
R01HL-21276-02 Development of 99-mTc myocardial imaging agents
** R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
M R01HL-21684-02 Radionuclide infarct sizing and therapy evaluation
** R01HL-21684-02 0001 Radionuclide infarct sizing and therapy evaluation - Evaluating preservation of ischemic myocardium by radioisotope methods (dog)
** R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)
** R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
** R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
** R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
** R01HL-21707-01 Quantification of infarct size by emission tomography (human, dogs)
M R01HL-21751-02 Thallium and antimyosin in ischemia and infarction
** R01HL-21751-02 0001 Thallium and antimyosin in ischemia and infarction - In vitro models of ischemia and infarction (rats, mice)
** R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction
** R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies--Ischemia and infarction
** R01HL-21793-02 Functional infarct size by gated radioangiography (human, dogs)
R01HL-22852-01 Diagnostic techniques in venous thromboembolism (human)
R01HL-23983-01 Quantitative radiocardiography (human, dogs)

RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING, POSITRON*

** P50HL-17665-04 0027 Study of ischemic heart disease - Positron imaging of regional myocardial perfusion (human, dog)
** R01HL-19289-03 Assessment of infusion methods for myocardial mapping (dogs)

RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING, POSITRON AXIAL TOMOGRAPHY*

P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
P50HL-17646-04 0002 Study of ischemic heart disease - Core data management
** P50HL-17646-04 0009 Study of ischemic heart disease - Regional metabolic derangements indicating ischemia (rabbit, dog, human)
P50HL-17648-04 0004 Study of ischemic heart disease - Radionuclide imaging studies (human, pig)
P50HL-17665-04 0027 Study of ischemic heart disease - Positron imaging of regional myocardial perfusion (human, dog)
** R01HL-21697-01 Myocardium infarct sizing by 82Rb emission tomography (dogs, human)
R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction

RADIOCARDIOGRAPHY

SEE HEART VISUALIZATION, RADIOCARDIOGRAPHY*

RADIODIAGNOSIS AND RADIODIAGNOSTIC METHODS

SEE ALSO NEOPLASMS DIAGNOSIS, RADIODIAGNOSIS
R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)
P01HL-13330-08 0062 Mechanical circulatory support - CORE facilities
P50HL-14136-07 0005 Pulmonary SCOR--Airways obstructive diseases - Radiographic studies of airways obstructive disease (human)
P50HL-14187-07 0008 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary thromboembolism (dogs, human)
** P50HL-14192-08 0008 Specialized center of research in hypertension - New radiographic methods--Recognition of renovascular hypertension (human, dog)
** R01HL-16484-04 Radiographic ventriculometry for coronary heart disease (human)
R01HL-17769-03 New methods of studying blood coagulation kinetics
R01HL-18492-03 Measurement of regional coronary flow reserve (human, dogs)
R01HL-19289-03 Assessment of infusion methods for myocardial mapping (dogs)
** R01HL-20110-02 Microwave methods of lung water measurement (dogs, phantom models)
R01HL-20274-02 Gated imaging with the MGH x-ray camera
R01HL-21719-01 Computed cardiac tomography in infarct sizing (dogs, human)

RADIODIAGNOSIS AND RADIODIAGNOSTIC METHODS, RADIOISOTOPE DIAGNOSIS

SEE ALSO NEOPLASMS DIAGNOSIS, RADIOISOTOPE DIAGNOSIS
P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
P01HL-04664-18 0006 Cardiovascular and lung dynamics - Cross section imaging of organ functions using emitted radiation (dogs)
P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
P01HL-06314-17 0065 Immunologic mechanisms in cardiovascular disease - Transplantation biology and clinical transplantation
R01HL-09315-15 Coronary insufficiency and myocardial revascularization (human, dogs)
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
R01HL-10009-13 Regional lung function in man
P01HL-11310-12 0081 Mechanisms of cardiovascular disease - Analysis of regional left ventricular function (human)
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)
R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
P01HL-12373-10 0002 Cardiopulmonary physiology and pathophysiology - Determinants of performance of the whole heart (dogs)
R01HL-12833-09 Genetic and environmental influences on lung disease (human)
** R01HL-13036-08 Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys)
R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
R01HL-13824-06 Defense mechanisms in pathogenesis of emphysema (human, dogs)
** P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
** P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
** P50HL-14147-08 0016 Specialized center of research in thrombosis - Nuclear medicine core laboratory (human, dogs, rats, rabbits)
P50HL-14214-07 0036 Newborn lung center for hyaline membrane disease - Core--Biomedical engineering
** P50HL-14217-08 0052 Specialized center of research in thrombosis - Radioisotope nuclear medicine section (human, dog)
** R01HL-14826-05 External isotope assay of atherosclerosis (rats, rabbits)
P01HL-15194-07 0017 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation and effects of arteriographic lesions on flow (human)
** R01HL-16553-05 Diagnosis of myocardial infarction by radioisotopes (mice, rats, goats)
P50HL-17646-04 0009 Study of ischemic heart disease - Regional metabolic derangements indicating ischemia (rabbit, dog, human)
** P50HL-17648-04 0004 Study of ischemic heart disease - Radionuclide imaging studies (human, pig)
P50HL-17665-04 0011 Study of ischemic heart disease - Development of new methods for the determination of infarct size (dog, human)
** P50HL-17665-04 0027 Study of ischemic heart disease - Positron imaging of regional myocardial perfusion (human, dog)
P50HL-17667-04 0030 Study of ischemic heart disease - Computerized clinical data acquisition and processing
** P50HL-17670-04 0015 Study of ischemic heart disease - Radionuclide studies of myocardial ischemia (human)
P50HL-17670-04 0020 Study of ischemic heart disease - Radionuclide evaluation of coronary artery disease (human, dog)
P50HL-17682-04 0005 Study of ischemic heart disease - Regional myocardial perfusion deficits and segmental contraction disorders in man
** P50HL-17682-04 0011 Study of ischemic heart disease - Nuclear medicine core unit (human, dogs, rabbits, mice)
** R01HL-17739-04 Acute myocardial infarct scintigraphy (human, dogs, rats)
R01HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
P01HL-18576-03 0013 Thrombosis research program project - Early warning and monitoring test systems in thrombotic disease (human)
R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
** R01HL-18744-03 Preparation of radiopharmaceuticals from drug analogs
** R01HL-18805-04 0005 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Radionuclide studies (human)
R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
** R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
R01HL-19232-03 ECHO changes in wall motion with myocardial ischemia
R01HL-19370-03 Coronary capillary exchange--The effects of ischemia (dogs, sheep)
R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-19717-02 0021 Response of the lung to injury Gallium lung scans in librosing alveolitis (hamsters)
** P01HL-19717-02 0039 Response of the lung to injury Lung scanning in alveolitis and asbestolic interstitial pneumonia (human, animal)
** R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
** R01HL-20677-02 Radionuclide studies in congenital heart disease
R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
R01HL-20895-03 0002 Cineangiographic studies of cardiovascular system - Coronary disease--Regional myocardial blood flow (human, dog)
P50HL-21006-02 0005 Specialized center of research in arteriosclerosis - Regional myocardial perfusion in patient with coronary artery disease (also dogs)
R01HL-21273-02 Fibrinogen labeling with radiometals
R01HL-21276-02 Development of 99-mTc myocardial imaging agents
** R01HL-21518-01 Improvement in regional ventilation-perfusion resolution (human)
R01HL-21572-01 Natural history of the postphlebitic syndrome
M R01HL-21684-02 Radionuclide infarct sizing and therapy evaluation
** R01HL-21684-02 0001 Radionuclide infarct sizing and therapy evaluation - Evaluating preservation of ischemic myocardium by radioisotope methods (dog)
** R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)
** R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
** R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
** R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
R01HL-21751-02 0001 Thallium and antimyosin in ischemia and infarction - In vitro models of ischemia and infarction (rats, mice)
R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction
R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies--Ischemia and infarction
** R01HL-21793-02 Functional infarct size by gated radioangiography (human, dogs)
** R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
** R01HL-22567-01 Validation of a cholesterol absorption method in man
R01HL-22750-01 Digoxin in heart failure with sinus rhythm (human)
R01HL-23653-01 Protection of the ischemic myocardium (dogs)
** R01HL-23983-01 Quantitative radiocardiography (human, dogs)
N01HV-62960-00 Techniques to protect ischemic myocardium and minimize infant size (human)

RADIODIAGNOSTIC METHODS

SEE RADIODIAGNOSIS AND RADIODIAGNOSTIC METHODS

RADIOFLUORESCENT PROBES

R01HL-17739-04 Acute myocardial infarct scintigraphy (human, dogs, rats)

RADIOFREQUENCY CONTROLLED ELECTRONIC STIMULATORS

SEE ELECTRONIC STIMULATORS, RADIOFREQUENCY CONTROLLED

RADIOGRAPHY*

SEE ALSO CARDIOVASCULAR VISUALIZATION, ROENTGEN VIDEODENSITOMETRY*
SEE ALSO CEREBROVASCULAR VISUALIZATION, CEREBROANGIOGRAPHY*
SEE ALSO GASTROINTESTINAL VISUALIZATION*
SEE ALSO HEART VISUALIZATION, ANGIOCARDIOGRAPHY*
SEE ALSO NEOPLASMS DIAGNOSIS, BREAST NEOPLASMS DIAGNOSIS, MAMMOGRAPHY*
SEE ALSO PHYSICAL PROPERTIES, SOUND, ULTRASONOGRAPHY
SEE ALSO RADIOAUTOGRAPHY*
SEE ALSO RESPIRATORY VISUALIZATION, BRONCHOGRAPHY*
** P50HL-14136-07 0005 Pulmonary SCOR--Airways obstructive diseases - Radiographic studies of airways obstructive disease (human)
** P50HL-14136-07 90D4 Pulmonary SCOR--Airways obstructive diseases - Radiology core (human)
P50HL-14136-07 9D07 Pulmonary SCOR--Airways obstructive diseases - Special facilities core
** P50HL-15092-07 0013 Immune and fibrotic response to occupational environments - Epidemiology core resource
P50HL-17670-04 0016 Study of ischemic heart disease - Core pathology laboratory (human, dogs, monkeys)
** R01HL-21846-01 Cardiac failure detection by radiography and optics (monkeys)

RADIOGRAPHY, CINEFLUOROGRAPHY*

R01HL 19003-03 High precision densitometry of coronary angiograms
R01HL-20895-03 0004 Cineangiographic studies of cardiovascular system - Cineangiography-Coronary lesions and ventricular function (human)

RADIOGRAPHY, CONTRAST MEDIA*

P01HL-04664 18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
P50HL-19156-02 0003 Pulmonary SCOR-Chronic diseases of airways - Powdered tantalum to study airway morphology and mucociliary clearance (human)
** R01HL-19675-02 Coronary pharmacoangiography
** R01HL-21276 02 Development of 99-mTc myocardial imaging agents
** R01HL-21589-01 Radiographic contrast toxicity in ischemic heart
R01HL-21719-01 Computed cardiac tomography in infarct sizing (dogs, human)
** N01HV-72930-02 Atherosclerosis assessment--Angiography and ultrasound (dogs, human)
N01HV-72931-02 Non-invasive detection of atherosclerotic lesions (human, dogs)

RADIOGRAPHY, FLUOROSCOPY*

R01HL-22844-01 Phrenic nerve pacing--Noninvasive diaphragm analysis (human, dogs)

RADIOGRAPHY, FLUOROSCOPY, AUTOFLUOROSCOPY*

SEE ALSO RADIOASSAY, SCINTILLATION CAMERAS*
R01HL-14148-07 0009 The regional circulations - Myocardial circulation in hypertension and atherosclerosis (human)

RADIOGRAPHY, MICRORADIOGRAPHY*

SEE ALSO CARDIOVASCULAR VISUALIZATION, MICROANGIOGRAPHY*
** P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique
P50HL-14136-07 0005 Pulmonary SCOR--Airways obstructive diseases - Radiographic studies of airways obstructive disease (human)

RADIOGRAPHY, PNEUMORADIOGRAPHY*

** P01HL-06370-17 0017 Cardiopulmonary and renal pathology research center - Detection of pulmonary lesions--Radiologic pathologic correlation
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)

RADIOGRAPHY, SCANNING (GENERAL)*

SEE ALSO BRAIN VISUALIZATION, BRAIN SCANNING*
SEE ALSO HEART VISUALIZATION, HEART SCANNING*
SEE ALSO PHYSICAL PROPERTIES, SOUND, ULTRASONIC SCANNING*
SEE ALSO RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING*
SEE ALSO RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING, POSITRON*
SEE ALSO RESPIRATORY VISUALIZATION, LUNG SCANNING*
SEE ALSO SKELETAL VISUALIZATION, BONE SCANNING*
P01HL-07293-17 0055 Non-invasive cardiovascular measurements - Peripheral vascular transducer position locating system
** P01HL-07293-17 0056 Non-invasive cardiovascular measurements - Peripheral vascular system software
** P01HL-07293-17 0057 Non-invasive cardiovascular measurements - Peripheral vascular scanner engineering evaluation and error analysis (human)
** P01HL-07293-17 0058 Non-invasive cardiovascular measurements - Peripheral duplex scanner physiologic evaluation

RADIOGRAPHY, SCANNING, CAT*

SEE ALSO RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING, POSITRON AXIAL TOMOGRAPHY*
** P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
** P01HL-04664-18 0004 Cardiovascular and lung dynamics - X-ray cross section imaging of the circulation (dogs)
** P01HL-04664-18 0006 Cardiovascular and lung dynamics - Cross section imaging of organ functions using emitted radiation (dogs)
** P01HL-04664-18 0007 Cardiovascular and lung dynamics - Development and application of ultrasound imaging techniques
P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
P01HL-04664-18 0016 Cardiovascular and lung dynamics - Computerized roentgenographic determination of total lung capacity
** P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
** R01HL-16487-05 Computer controlled two dimensional echocardiography
R01HL-18873-02 Early radiologic diagnosis of cardiac failure (monkey)
** R01HL-18968-03 Computer technology for transaxial tomography
R01HL 19003-03 High precision densitometry of coronary angiograms
R01HL 19289-03 Assessment of infusion methods for myocardial mapping (dogs)
R01HL-20274-02 Gated imaging with the MGH x ray camera
** R01HL-20761-02 Study of cerebral blood flow with stable xenon and computerized tomography
** R23HL-21253-01 Anatomical models in computer-aided image analysis
** R01HL-21719-01 Computed cardiac tomography in infarct sizing (dogs, human)

RADIOGRAPHY, SCANNING, DSR

P01HL-04664-18 Cardiovascular and lung dynamics
P01HL-04664-18 0001 Cardiovascular and lung dynamics - X-ray projection image videodensitometry (dogs)
P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
P01HL-04664-18 0004 Cardiovascular and lung dynamics - X-ray cross section imaging of the circulation (dogs)
P01HL-04664-18 0006 Cardiovascular and lung dynamics - Cross section imaging of organ functions using emitted radiation (dogs)
P01HL-04664-18 0007 Cardiovascular and lung dynamics - Development and application of ultrasound imaging techniques
P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique
P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
P01HL-04664-18 0011 Cardiovascular and lung dynamics - Detection of abnormal segments of the human ventricle by measure of asynergy
P01HL-04664-18 0016 Cardiovascular and lung dynamics - Computerized roentgenographic determination of total lung capacity

RADIOGRAPHY, TOMOGRAPHY*

SEE ALSO CARDIOVASCULAR VISUALIZATION, ANGIOTOMOGRAPHY*
SEE ALSO RADIOAUTOGRAPHY, RADIOISOTOPE TOMOGRAPHY*
SEE ALSO RADIOGRAPHY, SCANNING, CAT*
R01HL-09913-13 Cerebral veins--Anatomic and radiologic correlation (human)
R01HL-20761-02 Study of cerebral blood flow with stable xenon and computerized tomography

RADIOGRAPHY, XEROGRAPHY

R01HL-19341-03 Ultrasonic detection of the atherosclerotic plaque

RADIOIMMUNOASSAY

SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, RADIOIMMUNOASSAY*

RADIOISOTOPE DIAGNOSIS

SEE RADIODIAGNOSIS AND RADIODIAGNOSTIC METHODS, RADIOISOTOPE DIAGNOSIS

RADIOISOTOPE DIAGNOSIS OF NEOPLASMS

SEE NEOPLASMS DIAGNOSIS, RADIOISOTOPE DIAGNOSIS

RADIOISOTOPE (NUCLEAR) MEDICINE (GENERAL)

SEE ALSO NEOPLASMS DIAGNOSIS, RADIOISOTOPE DIAGNOSIS
SEE ALSO RADIODIAGNOSIS AND RADIODIAGNOSTIC METHODS, RADIOISOTOPE DIAGNOSIS
SEE ALSO RADIOPHARMACOLOGY
P50HL-14217-08 0052 Specialized center of research in thrombosis - Radioisotope nuclear medicine section (human, dog)
R01HL-16553-05 Diagnosis of myocardial infarction by radioisotopes (mice, rats, goats)
R01HL-16791-03 Computer linkage for a dual camera system
** P50HL-17648-04 0004 Study of ischemic heart disease - Radionuclide imaging studies (human, pig)
** P50HL-17655-04 0011 Study of ischemic heart disease - Core facility--Cardiovascular nuclear medicine (human, dog)
R01HL-17739-04 Acute myocardial infarct scintigraphy (human, dogs, rats)
R01HL-19289-03 Assessment of infusion methods for myocardial mapping (dogs)
R01HL-20674-02 Evaluation of cardiac function with radioactive tracers
R01HL-20677-02 Radionuclide studies in congenital heart disease
R01HL-21273-02 Fibrinogen labeling with radiometals
R01HL-21276-02 Development of 99-mTc myocardial imaging agents
** R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
R01HL-23983-01 Quantitative radiocardiography (human, dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

RADIOISOTOPE (NUCLEAR) MEDICINE, STABLE (LABELED) ISOTOPE DIAGNOSIS
R01HL-18738-02 Prevention of postoperative venous thrombi (human, cattle)
R01HL-20761-02 Study of cerebral blood flow with stable xenon and computerized tomography
** R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)

RADIOISOTOPE PHOTOSCANNING
SEE RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING*

RADIOISOTOPE TOMOGRAPHY
SEE RADIOAUTOGRAPHY, RADIOISOTOPE TOMOGRAPHY*

RADIOISOTOPE TRACERS
SEE RADIOTRACER*

RADIOISOTOPES
SEE ALSO RADIOPHARMACOLOGY
SEE ALSO RADIOTRACER*
P01HL-11351-12 0009 Cellular and molecular mechanisms of myocardial function - Myocardial membrane surface coat (rats, rabbits)
P01HL-12373-10 0018 Cardiopulmonary physiology and pathophysiology - Biochemistry laboratory
R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
** P01HL-18576-03 0016 Thrombosis research program project - Radiochemistry core

RADIOISOTOPES, ACTINIDE SERIES, URANIUM
R01HL-19463-02 Pathophysiology of acute renal failure (rats)

RADIOISOTOPES, BROMINE
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)

RADIOISOTOPES, CARBON
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)
R01HL-21697-01 Myocardium infarct sizing by 82Rb emission tomography (dogs, human)
R01HL-22567-01 Validation of a cholesterol absorption method in man
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)

RADIOISOTOPES, CHROMIUM
P50HL-14217-08 0052 Specialized center of research in thrombosis - Radioisotope nuclear medicine section (human, dog)

RADIOISOTOPES, FLUORINE
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)

RADIOISOTOPES, GALLIUM
P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
** P01HL-19717-02 0021 Response of the lung to injury - Gallium lung scans in fibrosing alveolitis (hamsters)
R01HL-21273-02 Fibrinogen labeling with radiometals

RADIOISOTOPES, INDIUM
P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
P50HL-14217-08 0052 Specialized center of research in thrombosis - Radioisotope nuclear medicine section (human, dog)
R01HL-18805-04 0005 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Radionuclide studies (human)
R01HL-21273-02 Fibrinogen labeling with radiometals

RADIOISOTOPES, IODINE
P01HL-12373-10 0005 Cardiopulmonary physiology and pathophysiology - Characterization of fetal and neonatal myocardium (human, cats)
P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
P50HL-14217-08 0052 Specialized center of research in thrombosis - Radioisotope nuclear medicine section (human, dog)
R01HL-14826-05 External isotope assay of atherosclerosis (rats, rabbits)
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)

RADIOISOTOPES, NITROGEN
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)

RADIOISOTOPES, OXYGEN
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
** P01HL-19737-02 0007 Cellular and molecular aspects of respiratory physiology - Average oxygen tension of tissue using radioisotopes (dogs)

RADIOISOTOPES, POTASSIUM
** P01HL-12157-11 0056 Functions and mechanisms of cell membrane ion transport - Isotopic fluxes in synthetic strands of heart cells (chick embryo)
P01HL-12157-11 0057 Functions and mechanisms of cell membrane ion transport - Electrophysiological investigations of synthetic strands of heart muscles (rats)

RADIOISOTOPES, RUBIDIUM
R01HL-16553-05 Diagnosis of myocardial infarction by radioisotopes (mice, rats, goats)
P50HL-17665-04 0027 Study of ischemic heart disease - Positron imaging of regional myocardial perfusion (human, dog)
R01HL-20943-02 Comparision of microsphere and RBC behavior in vivo
R01HL-21697-01 Myocardium infarct sizing by 82Rb emission tomography (dogs, human)

RADIOISOTOPES, TECHNETIUM
P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
P50HL-14217-08 0052 Specialized center of research in thrombosis - Radioisotope nuclear medicine section (human, dog)
P50HL-17669-04 0009 Ischemic heart disease center (SCOR) - Infarct volume--99Tc stannous pyrophosphate myocardial scintigrams (dogs, human)
P50HL-17669-04 0023 Ischemic heart disease center (SCOR) - Patients with acute myocardial infarction and myocardial ischemia (human)
P50HL-17670-04 0020 Study of ischemic heart disease - Radionuclide evaluation of coronary artery disease (human, dog)
R01HL-18805-04 0005 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Radionuclide studies (human)
R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
R01HL-21273-02 Fibrinogen labeling with radiometals
R01HL-21276-02 Development of 99-mTc myocardial imaging agents
R01HL-21518-01 Improvement in regional ventilation-perfusion resolution (human)
R01HL-21684-02 0001 Radionuclide infarct sizing and therapy evaluation - Evaluating preservation of ischemic myocardium by radioisotope methods (dog)
R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)
R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
R01HL-21707-01 Quantification of infarct size by emission tomography (human, dogs)
R01HL-21793-02 Functional infarct size by gated radioangiography (human, dogs)

RADIOISOTOPES, THALLIUM
R01HL-16553-05 Diagnosis of myocardial infarction by radioisotopes (mice, rats, goats)
P50HL-17655-04 0011 Study of ischemic heart disease - Core facility--Cardiovascular nuclear medicine (human, dog)
P50HL-17670-04 0020 Study of ischemic heart disease - Radionuclide evaluation of coronary artery disease (human, dog)
R01HL-18805-04 0005 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Radionuclide studies (human)
P50HL-21006-02 0005 Specialized center of research in arteriosclerosis - Regional myocardial perfusion in patient with coronary artery disease (also dogs)
R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)
R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
R01HL-21707-01 Quantification of infarct size by emission tomography (human, dogs)
M R01HL-21751-02 Thallium and antimyosin in ischemia and infarction
R01HL-21751-02 0001 Thallium and antimyosin in ischemia and infarction - In vitro models of ischemia and infarction (rats, mice)
R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction
R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies--Ischemia and infarction
R01HL-21793-02 Functional infarct size by gated radioangiography (human, dogs)

RADIOISOTOPES, XENON
** P01HL-07896-15 0055 Environmental biomedical research program - Cerebral blood flow by Xenon-133 inhalation (human)
R01HL-10009-13 Regional lung function in man
R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
P50HL-21006-02 0005 Specialized center of research in arteriosclerosis - Regional myocardial perfusion in patient with coronary artery disease (also dogs)
R01HL-21518-01 Improvement in regional ventilation-perfusion resolution (human)

RADIOLOGICAL HEALTH, RADIATION HAZARDS
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)

RADIONUCLIDE SCANNING
SEE RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING*

RADIONUCLIDES
SEE RADIOISOTOPES

RADIOPHARMACOLOGY
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
P01HL-13851-16 Cyclotron produced isotopes in biology and medicine (human, animals)
P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
R01HL-16037-06 Molecular properties of cardiac adrenergic receptors
P50HL-17655-04 0011 Study of ischemic heart disease - Core facility--Cardiovascular nuclear medicine (human, dog)
P50HL-17665-04 0027 Study of ischemic heart disease--Positron imaging of regional myocardial perfusion (human, dog)
R01HL-17739-04 Acute myocardial infarct scintigraphy (human, dogs, rats)
** R01HL-18744-03 Preparation of radiopharmaceuticals from drug analogs
** R01HL-19127-03 Synthesis of molecules for myocardial imaging (rats)
R01HL-20674-02 Evaluation of cardiac function with radioactive tracers
** R01HL-21273-02 Fibrinogen labeling with radiometals
R01HL-21276-02 Development of 99-mTc myocardial imaging agents
R01HL-21684-02 0002 Radionuclide infarct sizing and therapy evaluation - Evaluating myocardial imaging agents in global and regional ischemia (rabbits)
R01HL-21684-02 0004 Radionuclide infarct sizing and therapy evaluation - Image analysis--Kinetics of infarction, ventricular function (human, animal)
R01HL-21690-02 Sequential multinuclide study of acute infarction (human, dogs)
R01HL-21697-01 Myocardium infarct sizing by 82Rb emission tomography (dogs, human)
R01HL-21751-02 0002 Thallium and antimyosin in ischemia and infarction - Canine models of ischemia and infarction
R01HL-21751-02 0003 Thallium and antimyosin in ischemia and infarction - Human studies--Ischemia and infarction

RADIOSCOPY
SEE RADIOGRAPHY, FLUOROSCOPY*

RADIOSENSITIVITY
SEE RADIATION SENSITIVITY

RADIOTHERAPY
SEE RADIATION THERAPY

RADIOTRACER*
SEE ALSO HYDROGEN, TRITIUM*
SEE ALSO IMMUNOLOGICAL TESTS AND IMMUNOASSAY, RADIOIMMUNOASSAY*
SEE ALSO RADIOAUTOGRAPHY, RADIOISOTOPE TOMOGRAPHY*
R01HL-10914-10 Renal sodium transport in experimental aldosteronism (dogs)
R01HL-14820-07 Factors affecting physiology of biological membranes (human)
P01HL-15596-05 0001 Coagulation, fibrinolysis, hemostasis and hepatitis - Defibrination (human)
R01HL-18679-04 Synthetic protease inhibitors
R01HL-18744-03 Preparation of radiopharmaceuticals from drug analogs
R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)
R23HL-19594-01 Tropocollagen and tropoelastin uptake in lung cells (human)
R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

RADIOTRACERS, DOUBLE (MULTIPLE)*
R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
P50HL-14230-07 0098 A/S SCOR--Lipids, atherosclerosis and thrombosis - Molecular properties of factor VIII (cattle, human, mice)
R01HL-18805-04 0005 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Radionuclide studies (human)
R01HL-22567-01 Validation of a cholesterol absorption method in man

RAGWEED
SEE PLANTS, ANGIOSPERMS, RAGWEED*

RAMAN SPECTRA
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, RAMAN*

RAPHE NUCLEUS, DORSAL
SEE BRAIN, MESENCEPHALON, RAPHE NUCLEUS, DORSAL

RAPID DIAGNOSIS
SEE DIAGNOSTIC TESTS, RAPID DIAGNOSIS*

RARE EARTH METALS
SEE METALS, RARE EARTHS

RARE EARTHS
SEE METALS, RARE EARTHS

RARE GAS ELEMENTS
SEE GAS ELEMENTS, INERT

RATE OF ADMINISTRATION, DRUGS
SEE DOSAGE AND ROUTE, RATE AND DURATION OF ADMINISTRATION

RATS (LABORATORY)
SEE MAMMALS, RODENTS, MYOMORPHA, RATS (LABORATORY)*

RAUSCHER LEUKEMIA VIRUS
SEE VIRUSES, ONCORNA, LEUKEMIA MOUSE RAUSCHER

RAUWOLFIA ALKALOIDS
SEE ALKALOIDS, RAUWOLFIA TYPE, RAUWOLFIA

RAUWOLFINE
SEE ALKALOIDS, RAUWOLFIA TYPE, AJMALINE

RAYNAUD'S DISEASE AND PHENOMENON
SEE CARDIOVASCULAR DISORDERS, RAYNAUD'S DISEASE AND PHENOMENON

REACTION DYNAMICS, KINETICS, MECHANISMS
SEE CHEMICAL REACTIONS (DYNAMICS)

REACTION RATES (CHEMISTRY)
SEE CHEMICAL REACTION RATES

REACTION SITES, CHEMICAL
SEE CHEMICAL REACTION SITES

REACTIVE HYPEREMIA
SEE CARDIOVASCULAR FUNCTION, BLOOD FLOW, REACTIVE HYPEREMIA

REACTIVE PSYCHOTIC DEPRESSION
SEE PSYCHOSIS, DEPRESSIVE, REACTIVE PSYCHOTIC DEPRESSION

REAGENTS
SEE INDICATORS AND REAGENTS

REAGIN
SEE HYPERSENSITIVITY, SKIN SENSITIZING ANTIBODY

RECEPTOR SITES, ENZYMES
SEE ENZYME STRUCTURE

RECEPTORS OF NON-SENSORY STIMULI
SEE BIOLOGICAL TRANSPORT, TRANSPORT PROTEINS (SEE ALSO SPECIFICS)
SEE DRUGS RECEPTORS
SEE ENDOCRINOLOGY, HORMONE BINDING PROTEINS
SEE ENDOCRINOLOGY, HORMONE RECEPTORS
SEE GLOBULINS, CORTICOSTEROID BINDING GLOBULIN
SEE HALOPROTEINS, THYROXINE BINDING PROTEINS
SEE NEUROTRANSMITTERS RECEPTORS

RECEPTORS OF SENSORY STIMULI
SEE EYE, PHOTORECEPTORS
SEE NERVOUS SYSTEM, AFFERENT NERVES
SEE SENSE ORGANS

RECESSIVE DISORDERS, GENETIC
SEE GENETIC DISORDERS, AUTOSOMAL RECESSIVE CONDITIONS

RECOMBINANT DNA
SEE NUCLEIC ACIDS, UNNATURAL NUCLEIC ACIDS, HYBRID NUCLEIC ACIDS

RECOMBINANT DNA, ARTIFICIALLY INDUCED
SEE GENETIC MANIPULATION

RECOMBINATION
SEE GENETICS, RECOMBINATION

RECONSTITUTION OF ENZYMES
SEE ENZYME RECONSTITUTION
SEE PROTEINS RECONSTITUTION

RECONSTITUTION OF MEMBRANES
SEE MEMBRANE SYNTHESIS AND RECONSTITUTION

RECONSTITUTION OF PROTEINS
SEE PROTEINS RECONSTITUTION

RECORD SYSTEMS (HEALTH)
SEE HEALTH RECORDS

RECORDING AND RECORDING SYSTEMS
SEE BIOMEDICAL SYSTEMS AUTOMATED, ELECTRONIC RECORDING SYSTEMS
SEE BIOMEDICAL SYSTEMS AUTOMATED, MAGNETIC RECORDING SYSTEMS

RECORDS, MEDICAL
SEE HEALTH RECORDS

RECREATION
SEE OCCUPATIONS, RECREATION

RECRUITMENT NEURAL
SEE NEUROPHYSIOLOGY, NEURAL RECRUITMENT

RECTAL SALT GLAND
SEE BODY FLUID BALANCE, IONIC, SALT GLAND

RECURRENCE OF DISEASE
SEE DISEASE RECURRENCE

RED CELL GHOSTS
SEE MEMBRANE, ERYTHROCYTE GHOST AND MEMBRANE

RED CROSS
SEE HEALTH AND SCIENTIFIC ORGANIZATIONS, VOLUNTARY HEALTH ORGANIZATIONS, RED CROSS

REDOX
SEE OXIDATION-REDUCTION

REDOX PROTEINS, LOW MOLECULAR WEIGHT
SEE RESPIRATORY PROTEINS, REDOXINS

REDOXINS
SEE RESPIRATORY PROTEINS, REDOXINS

REDUCING DIET
SEE NUTRITION, DIET THERAPEUTIC, REDUCING DIET

REDUCTION
SEE OXIDATION-REDUCTION, REDUCTION

REFERRAL AND CONSULTATION
SEE HEALTH CARE SERVICES, REFERRAL AND CONSULTATION

REFERRAL CENTERS
SEE BIOMEDICAL REGISTRIES AND REFERRAL CENTERS

REFERRAL CENTERS, CHEMICAL AND DRUG
SEE CHEMICAL AND DRUG REGISTRIES, REFERRAL CENTERS AND RESOURCES

REFERRAL CENTERS, IMMUNOLOGICAL PREPARATIONS
SEE IMMUNOLOGICAL PREPARATIONS (GENERAL)(INCLUDING CERTIFICATION AND STANDARDIZATION)

REFLEX
SEE NEUROPHYSIOLOGY, REFLEX

REFRIGERATION ANESTHESIA
SEE SENSORY DEPRESSION, ANESTHESIA, REFRIGERATION

REGENERATION
SEE GROWTH AND DEVELOPMENT, REGENERATION

REGENERATION, NERVOUS SYSTEM
SEE NERVOUS SYSTEM REGENERATION

REGIONAL ANESTHESIA
SEE SENSORY DEPRESSION, ANESTHESIA CONDUCTION

REGIONAL MEDICAL PLANNING
SEE HEALTH CARE (SERVICES)(RESOURCES)PLANNING, REGIONAL MEDICAL PLANNING

REGISTRIES
SEE GENETIC REGISTRIES AND REFERRAL CENTERS
SEE INFORMATION SYSTEMS (INCL BANKS AND CENTERS)
SEE TISSUE (CELL) CULTURE, CELL CULTURE COLLECTIONS BANKS AND REGISTRIES

REGISTRIES, BIOMEDICAL
SEE BIOMEDICAL REGISTRIES AND REFERRAL CENTERS

REGISTRIES, BLOOD
SEE BLOOD PRESERVATION, BLOOD BANKS, CENTERS-RESOURCES-REGISTRIES

REGISTRIES, CHEMICAL AND DRUG
SEE CHEMICAL AND DRUG REGISTRIES, REFERRAL CENTERS AND RESOURCES

REGISTRIES, DISEASE (CLINICAL DISEASE)
SEE HEALTH RECORD SYSTEMS, PATIENT (DISEASE) REGISTRIES

REGISTRIES, HEALTH SCIENCES MANPOWER
SEE HEALTH SCIENCES PROFESSIONS, HEALTH SCIENCES MANPOWER DATA AND REGISTRIES

REGISTRIES, HISTOCOMPATIBILITY, TYPING-MATCHING
SEE TISSUE COMPATIBILITY TRANSPLANTATION RESOURCES, REFERRAL CENTERS AND REGISTRIES

REGISTRIES, IMMUNOLOGICAL PREPARATIONS
SEE IMMUNOLOGICAL PREPARATIONS (GENERAL)(INCLUDING CERTIFICATION AND STANDARDIZATION)

REGISTRIES, PATIENT (OR CLINICAL DISEASE)
SEE HEALTH RECORD SYSTEMS, PATIENT (DISEASE) REGISTRIES

REGISTRIES, TISSUE
SEE TISSUE RESOURCES, REGISTRIES

REGISTRIES, TRANSPLANTATION
SEE TISSUE COMPATIBILITY-TRANSPLANTATION RESOURCES, REFERRAL CENTERS AND REGISTRIES

REGITINE
SEE IMIDAZOLES, PHENTOLAMINE

REGULATION (SELF) OF (VISCERAL) RESPONSES
SEE PSYCHOLOGY, CONDITIONING, AUTOGENIC AND INTERNAL CONTROL

REGULATORY CENTERS OF BRAIN
SEE BRAIN, REGULATORY CENTERS (GENERAL)

REGULATORY GENE
SEE GENETICS, GENES, OPERON, REGULATORY GENE

REHABILITATION NONPSYCHOSOCIAL
SEE HEALTH CARE SERVICES, REHABILITATION NONPSYCHOSOCIAL

REHABILITATION PSYCHIATRIC
SEE MENTAL HEALTH SERVICES, REHABILITATION PSYCHOSOCIAL

REHABILITATION PSYCHOSOCIAL
SEE MENTAL HEALTH SERVICES, REHABILITATION PSYCHOSOCIAL

REHABILITATION VOCATIONAL
SEE HEALTH CARE SERVICES, REHABILITATION VOCATIONAL

REINFORCEMENT (CONDITIONING)
SEE PSYCHOLOGY, CONDITIONING, REINFORCEMENT

REINFORCEMENT (LEARNING)
SEE PSYCHOLOGY, LEARNING, REINFORCEMENT

RELAXATION
SEE PSYCHIC ACTIVITY LEVEL, RELAXATION

REMEDIAL TRAINING
SEE EDUCATION, SPECIAL (REMEDIAL)

REMISSION OF DISEASE
SEE DISEASE REMISSION

REMOTE SENSORS
SEE BIOMEDICAL SYSTEMS AUTOMATED, TELEMETERING AND REMOTE SENSING

RENAL ARTERY
SEE KIDNEY CIRCULATION, RENAL ARTERY

RENAL ARTERY OBSTRUCTION
SEE KIDNEY-CIRCULATORY DISORDERS, RENAL ARTERY OBSTRUCTION

RENAL CIRCULATION
SEE KIDNEY CIRCULATION

RENAL CORTEX
SEE KIDNEY, RENAL CORTEX

RENAL FAILURE
SEE KIDNEY DISORDERS, RENAL FAILURE

RENAL HYPERTENSION
SEE KIDNEY-CIRCULATORY DISORDERS, RENAL HYPERTENSION

RENAL HYPERTROPHY
SEE KIDNEY DISORDERS, RENAL HYPERTROPHY

RENAL ISCHEMIA AND HYPOXIA
SEE KIDNEY-CIRCULATORY DISORDERS, RENAL ISCHEMIA AND HYPOXIA

RENAL MEDULLA
SEE KIDNEY, RENAL MEDULLA

RENAL TUBULAR ACIDOSIS
SEE METABOLIC DISORDERS (INBORN), RENAL TUBULAR ACIDOSIS

RENAL TUBULAR TRANSPORT
SEE KIDNEY FUNCTION, RENAL TUBULAR TRANSPORT

RENAL TUBULES
SEE KIDNEY, RENAL TUBULES

(contd)

*Excludes routine methodology DR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

RENAL VEINS
SEE KIONEY CIRCULATION, RENAL VEINS

RENIN
SEE PEPTIOES, VASOACTIVE PEPTIOES, RENIN

RENIN-ANGIOTENSIN-ALDOSTERONE IMBALANCE, BARTTER'S SYNDROME
SEE METABOLIC OISOROERS INBORN, BARTTER'S SYNOROME

RENIN-ANGIOTENSIN SYSTEM
SEE PEPTIOES, VASOACTIVE PEPTIOES, RENIN-ANGIOTENSIN SYSTEM

RENOGRAPHY (X-RAY)
SEE KIONEY VISUALIZATION*

RENOPRIVAL HYPERTENSION
SEE KIONEY-CIRCULATORY OISOROERS, RENOPRIVAL HYPERTENSION

REPLACEMENT, TRANSFUSION
SEE BLOOO TRANSFUSION, EXCHANGE

REPLICATION
SEE NUCLEIC ACIOS SYNTHESIS

REPLICATION, VIRAL
SEE VIRUS OEVELOPMENT, REPLICATION

REPOSITORIES, TISSUE
SEE TISSUE RESOURCES, REGISTRIES

REPRESSORS
SEE GENETICS, GENETIC REGULATION, GENETIC INOUCTION-REPRESSION-OEREPRESSION, REPRESSORS

REPRODUCTIVE AND SEX DEVELOPMENT DISORDERS
P50HL-14141-05 0007 SCOR for atherosclerosis in childhood - Relation of lipid valves to sexual maturation at puberty (human)

REPRODUCTIVE AND SEX DEVELOPMENT DISORDERS, HYPOGONADISM
P60HL-16008-06 0015 Wayne State University comprehensive sickle cell center - Trace elements in sickle cell disease (human)

REPRODUCTIVE HORMONES, CHORIONIC SOMATOMAMMOTROPIN
SEE ALSO PITUITARY-OIENCEPHALON HORMONES, PROLACTIN
R01HL-20939-02 Regulation of fetal hemoglobin in humans

REPRODUCTIVE HORMONES, GONADOTROPINS CHORIONIC
R01HL-20939-02 Regulation of fetal hemoglobin in humans

REPRODUCTIVE HORMONES, PLACENTAL HORMONES
SEE ALSO REPROOUCTIVE HORMONES, CHORIONIC SOMATOMAMMOTROPIN
SEE ALSO REPROOUCTIVE HORMONES, GONAOOTROPINS CHORIONIC
P50HL-14214-07 0024 Newborn lung center for hyaline membrane disease - Synthesis and receptors for ACTH in fetal lung (human)

REPRODUCTIVE HORMONES, SEX HORMONES
SEE ALSO ANOROSTANE SERIES, ANOROGENS
SEE ALSO ESTRATRIENE SERIES, ESTROGENS
SEE ALSO PROGESTERONE
SEE ALSO PROGESTINS
P50HL-14141-05 0007 SCOR for atherosclerosis in childhood - Relation of lipid valves to sexual maturation at puberty (human)
P50HL-14237-07 0005 Support for arteriosclerosis center - Genetic determinants of apolipoprotein variability in lipoproteins (human)
** P01HL-16387-04 0002 The blood vessel and thrombogenesis - Hormonal effects on thrombogenesis (rats, rabbits)
** R01HL-17721-04 Effect of sex hormones on vascular connective tissue (rats)
** R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
R01HL-18002-03 Circulatory shock, trauma and RE-system function (rats)
** R01HL-20645-01 Etiology of myocardial infaction (human)
** R01HL-22040-01 Regulation of lysyl-cross-linking in vascular tissue (rats, turkeys)
R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis

REPRODUCTIVE SYSTEM (GENERAL)
R01HL-19066-03 Synthesis and evaluation of prostaglandin metabolites (guinea pigs)

REPRODUCTIVE SYSTEM, GONADS
SEE ALSO REPROOUCTIVE ANO SEX OEVELOPMENT OISOROERS
SEE ALSO REPROOUCTIVE SYSTEM FEMALE, OVARY
R01HL-14913-06 Hypertension--Genetic influence of kidney (rats)

REPRODUCTIVE SYSTEM FEMALE, MAMMARY GLANDS
SEE ALSO BOOY FLUIOS, MILK
SEE ALSO NEOPLASMS OF REPROOUCTIVE SYSTEM, BREAST NEOPLASMS
R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)

REPRODUCTIVE SYSTEM FEMALE, MAMMARY GLANDS, LACTATION
R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)

REPRODUCTIVE SYSTEM FEMALE, OVARY
R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
** R01HL-14990-07 Lipid transport in avian species (chickens)

REPRODUCTIVE SYSTEM FEMALE, UTERUS
SEE ALSO REPROOUCTIVE SYSTEM SURGERY FEMALE, HYSTERECTOMY
** R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
** P01HL-06285-18 0133 Cardiovascular-respiratory physiology and biochemistry - Oecreased uterine blood flow and fetal development (lambs)
R01HL-12557-09 Effects of steroids and pregnancy on arteries and veins (guinea pigs)
** R01HL-13634-08 Renal hypertension in pregnancy (sheep)
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
** P01HL-15835-06 0002 Study of muscles related to heart disease - Proteins of smooth muscle system (cattle, rabbits)
R01HL-15839-05 Physiological role of isorenin and kallikrein (animals)
R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
** R01HL-21308-01 Prostaglandins and local control of the circulation (rats, dogs)
R23HL-21914-01 Studies of vasomotor control (rats)
R01HL-22225-01 Hormonal regulation of blood pressure and blood flow (human, animals)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

REPRODUCTIVE SYSTEM MALE, EPIDIDYMIS AND DUCTS
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)

REPRODUCTIVE SYSTEM DISORDERS (GENERAL)
SEE ALSO PREGNANCY OISOROERS
R01HL-11614-11 Trace elements in nutrition (chickens, rats, human)

REPRODUCTIVE SYSTEM DISORDERS FEMALE, UTERINE DISORDERS
P01HL-06285-18 0135 Cardiovascular-respiratory physiology and biochemistry - Beta-adrenergic agents and fetal cardiovascular dynamics (lambs)
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase

REPRODUCTIVE SYSTEM DISORDERS MALE, PROSTATE DISORDERS
SEE ALSO NEOPLASMS OF REPROOUCTIVE SYSTEM MALE, PROSTATE NEOPLASMS
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)

REPRODUCTIVE SYSTEM DISORDERS CHEMOTHERAPY
SEE ALSO PREGNANCY OISOROERS CHEMOTHERAPY
SEE ALSO REPROOUCTIVE SYSTEM PHARMACOLOGY
P50HL-14141-05 0002 SCOR for atherosclerosis in childhood - Intrauterine environment of proband group (human)

REPRODUCTIVE SYSTEM PHARMACOLOGY
SEE ALSO PREGNANCY OISOROERS CHEMOTHERAPY
SEE ALSO REPROOUCTIVE SYSTEM OISOROERS CHEMOTHERAPY
** R01HL-12557-09 Effects of steroids and pregnancy on arteries and veins (guinea pigs)
R01HL-14526-07 Oral contraceptives and hypertension (rats)

REPRODUCTIVE SYSTEM SURGERY FEMALE, HYSTERECTOMY
R01HL-20179-02 Epidemiology of sudden cardiac death among women

REPTILE POISONS
SEE TOXICOLOGY, ANIMAL POISONS, REPTILE

REPTILES*
R01HL-18868-03 Oevelopment of vertebrate vascular control systems (reptiles, amphibians)

REPTILES, TURTLES*
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)

RESEARCH BIOMEDICAL
SEE HEALTH SCIENCES RESEARCH (GENERAL)*

RESEARCH FACILITIES
SEE BIOMEOICAL ENGINEERING, INSTRUMENTATION CENTERS
SEE BIOMEOICAL FACILITIES
SEE CLINICAL RESEARCH CENTERS
SEE COMPUTER CENTERS
SEE GENERAL MEOICINE STUOY SECTION
SEE STATISTICAL SERVICE ANO CENTERS

RESEARCH MANPOWER REVIEW COMMITTEE
** R23HL-19573-01 Studies on pulmonary serotonin (mice)
** R23HL-19584-01 Alveolar macrophage responses to toxic particle exposure (guinea pigs, human)
** R23HL-19594-01 Tropocollagen and tropoelastin uptake in lung cells (human)
** R23HL-19605-01 Lipid requirement of the lung mono-oxygenase system (rabbits)
** R23HL-19619-01 Sem and x ray analysis in human pulmonary pathology
** R23HL-20576-01 Airway turbulence and pulmonary oxygen exchange

RESEARCH PROGRAM ANALYSIS-EVALUATION-PLANNING
SEE HEALTH SCIENCES RESEARCH ANALYSIS-EVALUATION-PLANNING

RESERPINE
SEE ALKALOIOS, RAUWOLFIA TYPE, RESERPINE

RESIDENCE CHARACTERISTICS
SEE SOCIOENVIRONMENT, RESIOENCE CHARACTERISTICS, HOUSING

RESIDENTIAL HEALTH CARE FACILITIES
SEE HEALTH CARE FACILITIES, RESIOENTIAL

RESIDENTIAL MOBILITY
SEE SOCIOENVIRONMENT, RESIOENTIAL MOBILITY

RESIDUE DIETARY
SEE NUTRITION, OIETARY CONSTITUENTS, OIETARY RESIOUES-FIBERS

RESINS
SEE MOLECULAR CONOENSATIONS, RESINS

RESONANCE SPECTROMETRY, ELECTRON SPIN
SEE CHEMISTRY, ANALYTICAL METHOOS, SPECTROMETRY, ESR*

RESONANCE SPECTROMETRY, NUCLEAR MAGNETIC
SEE CHEMISTRY, ANALYTICAL METHOOS, SPECTROMETRY, NMR*

RESOURCES, BIOMEDICAL (GENERAL)
SEE BIOMEOICAL RESOURCES (GENERAL)

RESOURCES, CHEMICAL AND DRUG
SEE CHEMICAL ANO ORUG REGISTRIES, REFERRAL CENTERS ANO RESOURCES

RESOURCES, HISTOCOMPATIBILITY TYPING-MATCHING
SEE TISSUE COMPATIBILITY-TRANSPLANTATION RESOURCES, REFERRAL CENTERS ANO REGISTRIES

RESOURCES, IMMUNOLOGICALS
SEE IMMUNOLOGICAL PREPARATIONS (GENERAL)(INCLUOING CERTIFICATION ANO STANOAROIZATION)

RESOURCES, TISSUE
SEE TISSUE RESOURCES, REGISTRIES

RESOURCES AND SERVICES IN HEALTH CARE UTILIZATION, AVAILABILITY AND DISTRIBUTION
SEE HEALTH CARE (SERVICES)(RESOURCES) UTILIZATION, AVAILABILITY ANO OISTRIBUTION OF SERVICES ANO RESOURCES

RESPIRATION
SEE RESPIRATORY FUNCTION, RESPIRATION

RESPIRATION INTERNAL
SEE ALSO OXIOATIVE PHOSPHORYLATION
SEE ALSO OXIOOREOUCTASES
SEE ALSO RESPIRATORY GAS ANALYZERS*
SEE ALSO RESPIRATORY PROTEINS (GENERAL)
R01HL-00082-30 Transmembrane movements (barnacles, frogs, rats)
P01HL-06285-18 0195 Cardiovascular-respiratory physiology and biochemistry - Thyroid thermogenesis and sodium transport (rats)
P01HL-07896-15 0063 Environmental biomedical research program - Oxygen toxicity (baboons)
P01HL-08899-14 0010 Tolerance to respiratory gases in health and disease - High oxygen pressure in septic shock (human)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P01HL-08899-14 0014 Tolerance to respiratory gases in health and disease - Cellular and renal responses to hypercapnia and hypocapnia (dogs)
R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
** R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)
P01HL-13737-07 0031 Assisted circulation Myocardial ischemia--Biochemical changes (dogs)
R01HL-13989-05 Role of water in respiratory protein structure
R01HL-14483-08 Energy conservation in heart mitochondria (cattle, E coli, human)
P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
** R01HL-15104-07 A mechanism for oxidative phosphorylation
R01HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
P01HL-15835-06 0013 Study of muscles related to heart disease - Cardiac bioenergetics (rats)
R01HL-16931-04 Red cell storage and transfusion (human, animals)
P50HL-17670-04 0022 Study of ischemic heart disease - Myocardial metabolism in hypoxia and recover (rabbit, toad, dog)
R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
** R01HL-18304-03 FT-infrared spectroscopy of heart muscle energetics (cattle)
R01HL-18309-04 Oxygen transport--Hemoglobins with modified hemes (horse)
** R01HL-18351-03 Brain metabolism, acid-base balance, and respiration
** P01HL-18708-03 0009 Oxygen, energy and contractility in cardiac tissue - Regulation of oxygen utilization of cardiac tissue (rats, rabbits)
** P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-18984-01 P50 effect on exercise limit in stable angina (human)
R01HL-19299-03 Myoglobin and oxygen supply to heart and muscle cells (rats, pigeons)
R01HL-19352-03 Respiratory heat and water loss in neonates
R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
** P01HL-19737-02 0006 Cellular and molecular aspects of respiratory physiology - Tissue oxygenation and mitochondrial respiratory activity (sheep)
R01HL-20610-02 Nerve growth factor and obstructive cardiomyopathy (dogs)
** R01HL-21849-02 Control of sodium transport and cellular respiration (toad bladder)
R01HL-21912-01 Biosynthesis of lipoic acid and atherosclerosis (birds, chick embryos)
R01HL-23153-01 Mechanisms of altered CA20 transport in ischemic heart (dog, rabbit)
** R01HL-23166-01 Pathology of mitochondria in ischemic myocardium (rats, cattle)

RESPIRATION INTERNAL, AEROBIOSIS

SEE ALSO MICROORGANISMS, AEROBES
R01HL-18560-03 Cardiovascular adaptation to stress (miniature swine)
R01HL-23240-01 Pulmonary vascular muscle metabolism and contractility (rats, cattle)

RESPIRATION INTERNAL, ANAEROBIOSIS

SEE ALSO MICROORGANISMS, ANAEROBES
** R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)

RESPIRATORS

SEE RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, RESPIRATORS

RESPIRATORY AIRFLOW DISORDERS

SEE RESPIRATORY DISORDERS, RESPIRATORY AIRFLOW DISORDERS

RESPIRATORY AIRFLOW MEASUREMENTS

SEE RESPIRATORY DISORDERS DIAGNOSIS, RESPIRATORY AIRFLOW MEASUREMENTS*

RESPIRATORY AIRWAY CLEARANCE

SEE RESPIRATORY FUNCTION, RESPIRATORY AIRWAY CLEARANCE

RESPIRATORY AIRWAY PRESSURE

SEE RESPIRATORY FUNCTION, RESPIRATORY AIRWAY PRESSURES

RESPIRATORY AIRWAY VOLUME

SEE RESPIRATORY FUNCTION, RESPIRATORY AIRWAY VOLUME

RESPIRATORY ANESTHESIA (INHALATION ANESTHESIA)

SEE SENSORY DEPRESSION, ANESTHESIA (GENERAL), INHALATION

RESPIRATORY ASSIST, MECHANICAL

SEE RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, RESPIRATORS

RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION

SEE ALSO CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, BLOOD OXYGENATORS
SEE ALSO CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART MECHANICAL EXTRACORPOREAL
P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
R01HL-09609-11 Lung volume and breathing mechanics during anesthesia (human)
P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
R01HL-13824-06 Defense mechanisms in pathogenesis of emphysema (human, dogs)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
** P01HL-15194-07 0011 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Oxygen effects on intrapulmonary shunting (human)
R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
P60HL-17292-04 0029 Vermont Lung Center - Computer-assisted pre-operative evaluation (human)
** R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
P50HL-19185-02 0004 Pulmonary SCOR--Neonatal respiratory distress syndromes - Fluid and protein transport in fetal and newborn lung (sheep, rabbits)
R01HL-19352-03 Respiratory heat and water loss in neonates

RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, AEROSOL THERAPY

P01HL-16137-05 0013 Alveolar biology - Development and pathology of surfactant--Formation of alveolar (rabbits, sheep)
R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
** R01HL-19647-03 Therapeutic aerosols
** R01HL-19700-03 Deposition of hygroscopic aerosols (models)
** R01HL-19704-03 Aerosol therapy (models, dogs, human)
** R01HL-19715-02 Respiratory tract deposition of hygroscopic aerosols (dogs, human)
** R01HL-19722-03 Aerosol growth in the respiratory system (models)
** R01HL-20024-03 Therapeutic aerosols--Characteristics and retention (human, dogs)
R01HL-20105-02 Deposition of hygroscopic aerosols in bronchi (dogs, human, models)

RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, ARTIFICIAL RESPIRATION

P01HL-10342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
** P50HL-17655-04 0003 Study of ischemic heart disease - Cardiopulmonary resuscitation (human, dog)
R01HL-21076-02 Lung fluid, protein exchange after hemorrhagic shock (sheep)

RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, ELECTRONIC RESPIRATORY STIMULATORS

** R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)

RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, FLUOROCARBON

P01HL-07896-15 0021 Environmental biomedical research program - Liquid breathing and lung lavage (human)
** R01HL-15520-06 Total blood replacement by fluorocarbons and polyols (rats)
** R01HL-16643-02 Fluorocarbon emulsions as artificial blood (animals)
** R01HL-22843-01 Pulmonary physiology in liquid ventilation (lambs)

RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, HYPERBARIC OXYGENATION

M P01HL-07896-15 Environmental biomedical research program
** P01HL-07896-15 0008 Environmental biomedical research program - Otologic studies under hyperbaric conditions (human, animals)
** P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
** P01HL-07896-15 0019 Environmental biomedical research program - Hyperoxic myopia (human)
P01HL-07896-15 0021 Environmental biomedical research program - Liquid breathing and lung lavage (human)
** P01HL-07896-15 0039 Environmental biomedical research program - Development of resistance to lethal effects of oxygen (rats)
** P01HL-07896-15 0043 Environmental biomedical research program Effect of hyperbaric oxygen on the lung (human, rabbits)
P01HL-07896-15 0045 Environmental biomedical research program Extravascular lung water dynamics in pulmonary oxygen toxicity (human, baboons)
** P01HL-07896-15 0046 Environmental biomedical research program Treatment of radiation induced tissue injury by hyperbaric oxygen (human)
** P01HL-07896-15 0049 Environmental biomedical research program Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
** P01HL-07896-15 0059 Environmental biomedical research program - Hyperoxygenation at elevated atmospheric pressure on myocardial blood flow (dogs)
** P01HL-08899-14 0008 Tolerance to respiratory gases in health and disease Hypoxia in regards to respiratory and brain circulatory control (goats)
P01HL-08899-14 0010 Tolerance to respiratory gases in health and disease High oxygen pressure in septic shock (human)
P01HL-08899-14 0014 Tolerance to respiratory gases in health and disease - Cellular and renal responses to hypercapnia and hypocapnia (dogs)
** P01HL-08899-14 0024 Tolerance to respiratory gases in health and disease - Effects of oxygen pressures on physiological control systems (human, dogs)
** P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
** P50HL-15061-07 0012 Response of lung to injury Hyperbaric oxygen, carbon monoxide, and ozone or peroxide toxicity (rats)
R01HL-16855-03 Cavitation in biological systems (microorganisms, animals)
R01HL-17944-03 Studies in lung preservation (dogs)

RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, HYPEROXIA

SEE ALSO EYE DISORDERS, RETROLENTAL FIBROPLASIA
SEE ALSO RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, HYPERBARIC OXYGENATION
P01HL-06370-17 0006 Cardiopulmonary and renal pathology research center - Chemical basis of ultrastructural changes in disease (rats)
M P01HL-07896-15 Environmental biomedical research program
** P01HL-07896-15 0032 Environmental biomedical research program - Fluorometry study of brain exposed to hyperbaric oxygen (dogs, cats)
** P01HL-07896-15 0039 Environmental biomedical research program - Development of resistance to lethal effects of oxygen (rats)
** P01HL-07896-15 0045 Environmental biomedical research program - Extravascular lung water dynamics in pulmonary oxygen toxicity (human, baboons)
** P01HL-07896-15 0047 Environmental biomedical research program - Pulmonary oxygen toxicity (chickens, rabbits)
** P01HL-07896-15 0049 Environmental biomedical research program - Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
** P01HL-07896-15 0058 Environmental biomedical research program - Lung synthesis of disaturated phosphatidylcholine (rats, dogs, bats)
** P01HL-07896-15 0059 Environmental biomedical research program - Hyperoxygenation at elevated atmospheric pressure on myocardial blood flow (dogs)
** P01HL-07896-15 0063 Environmental biomedical research program - Oxygen toxicity (baboons)
P01HL-08805-15 0039 Regulation of ventilation and pulmonary circulation - Carotid body (cats)
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
** P01HL-08899-14 0007 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on visual function (human, animals)
** P01HL-08899-14 0010 Tolerance to respiratory gases in health and disease - High oxygen pressure in septic shock (human)
** P01HL-08899-14 0012 Tolerance to respiratory gases in health and disease - High oxygen for normal brain metabolism and circulation in man
** P01HL-08899-14 0017 Tolerance to respiratory gases in health and disease - Pulmonary tolerance (human, dogs)
** P01HL-08899-14 0019 Tolerance to respiratory gases in health and disease - High oxygen pressure upon carotid chemoreceptor (cats)
** P01HL-08899-14 0020 Tolerance to respiratory gases in health and disease - Oxygen tolerance (human, rats, guinea pigs)
** P01HL-08899-14 0021 Tolerance to respiratory gases in health and disease - Renal oxygen toxicity (dogs)
** P01HL-08899-14 0023 Tolerance to respiratory gases in health and disease - Hypoxia and hyperoxia in respiratory response in regards to PCO2 (human)
** P01HL-08899-14 0025 Tolerance to respiratory gases in health and disease - Effects of oxygen on cardiopulmonary gas transport functions (dogs)
** P01HL-08899-14 0026 Tolerance to respiratory gases in health and disease - Effects of oxygen on central nervous system functions (rats, rabbits)

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** P01HL-08899-14 0027 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on ethanol metabolism (human)
P01HL-08899-14 0031 Tolerance to respiratory gases in health and disease - Studies in exercise (human, dogs)
** P01HL-08899-14 0032 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures upon respiratory control
** P01HL-08899-14 0034 Tolerance to respiratory gases in health and disease - Hyperoxygenation and respiratory response to acid-base stimuli (human, dog)
** P01HL-08899-14 0035 Tolerance to respiratory gases in health and disease - Simulation of the increased metabolism of exercise (dogs)
** P01HL-08899-14 0042 Tolerance to respiratory gases in health and disease - Definitions and extension of oxygen tolerance in organ systems (animals)
** P01HL-08899-14 0043 Tolerance to respiratory gases in health and disease - Oxygen effects upon CNS and sensory functions (human)
** P01HL-08899-14 0044 Tolerance to respiratory gases in health and disease - Influence of high oxygen pressures on cognition and performance
** P01HL-08899-14 0045 Tolerance to respiratory gases in health and disease - Studies in normal subjects
** P01HL-08899-14 0046 Tolerance to respiratory gases in health and disease - Studies in senile elderly individuals
** P01HL-08899-14 0047 Tolerance to respiratory gases in health and disease - Oxygen effects on visual function (human)
** P01HL-08899-14 0048 Tolerance to respiratory gases in health and disease - Changes in human vision during known tolerable exposures
** P01HL-08899-14 0049 Tolerance to respiratory gases in health and disease - Dose-response measures of severe oxygen toxicity (monkeys)
** P01HL-08899-14 0050 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on visual pigment functions (monkeys)
** P01HL-08899-14 0051 Tolerance to respiratory gases in health and disease - Oxygen effects upon isolated retinal metabolism (rabbits, monkeys)
** P01HL-08899-14 0052 Tolerance to respiratory gases in health and disease - Oxygen effects on auditory and vestibular function (human, guinea pigs)
** P01HL-08899-14 0054 Tolerance to respiratory gases in health and disease - Glucose transport across choroid plexus (dogs)
** P01HL-08899-14 0055 Tolerance to respiratory gases in health and disease - Oxygen effects on organ functions--Extension of tolerance
** P01HL-08899-14 0056 Tolerance to respiratory gases in health and disease - Extension of pulmonary oxygen tolerance at increased pressures (animals)
** P01HL-08899-14 0057 Tolerance to respiratory gases in health and disease - Studies of intermittent exposure in man
** P01HL-08899-14 0061 Tolerance to respiratory gases in health and disease - Hepatic oxygenation and secretory functions (rats, dogs)
** P01HL-08899-14 0062 Tolerance to respiratory gases in health and disease - Influence of oxygen at high pressure upon oxidation (rats)
P01HL-08899-14 0066 Tolerance to respiratory gases in health and disease - Neurophysiological effects of inert gases in man
** P01HL-08899-14 0067 Tolerance to respiratory gases in health and disease - Inert gas influences upon visual function in man
P01HL-08899-14 0089 Tolerance to respiratory gases in health and disease - Decompression by applications of optimal control theory
R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
R01HL-13233-08 Cardiorespiratory control in exercise (human)
** R01HL-14663-07 Pulmonary oxygen toxicity in newborn lung (human, mice)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
P50HL-15061-07 0004 Response of lung to injury - Biochemical abnormalities in connective tissues (rats)
** P50HL-15061-07 0012 Response of lung to injury - Hyperbaric oxygen, carbon monoxide, and ozone or peroxide toxicity (rats)
P01HL-15832-06 0001 Chemical-structural predispositions to lung injury - Chemical composition of lung connective tissue proteins (human, animals)
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
M P01HL-16137-05 Alveolar biology
P01HL-16137-05 0004 Alveolar biology - Subcellular processes and controls in the surfactant system (animals)
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
R01HL-16828-04 Gradient and transport of oxygen in tissue and organs (mammals)
R01HL-17314-04 Effects of anesthesia and loading on respiration (human, cats)
** R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
R01HL-17826-04 Oxygen delivery to tissue (rat, dog)
P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
R01HL-19195-03 Hormonal regulation of lung function (rats)
** R01HL-19532-01 Oxygen toxicity in the red cell (human)
R01HL-19668-03 Biochemistry of lung connective tissue (rats)
P01HL-19717-02 0004 Response of the lung to injury - Regulatory and physical-chemical properties of lung lysyl oxidase (animals)
** P01HL-19717-02 0025 Response of the lung to injury - Role of oxygen in regulation of lung growth and development (rats)
** R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
** R01HL-20352-02 Defenses of lung cells against oxygen toxicity (human, animals)
R01HL-20566-02 Lactate metabolism in the lung (rats)
** R01HL-21115-01 Prevention of 02 toxicity with superoxide dismutase (rats)
** R01HL-22259-01 Modification of susceptibility to oxygen poisoning (rats)
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)
R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)

RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, HYPERVENTILATION PASSIVE

P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)

RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, NEGATIVE PRESSURE BREATHING

P01HL-14414-07 0007 Environmental influences on cardiorespiratory and cellular functions - Neural control of respiration (human, cats)

RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, OXYGEN INHALATION THERAPY

R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
P01HL-08899-14 0056 Tolerance to respiratory gases in health and disease - Extension of pulmonary oxygen tolerance at increased pressures (animals)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
** R01HL-12564-09 Control of respiration and blood gases (human, dog)
R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
P50HL-17682-04 0007 Study of ischemic heart disease - Mechanisms of hypoxemia in myocardial infarction (human)
P50HL-19185-02 0011 Pulmonary SCOR--Neonatal respiratory distress syndromes - Complications and sequelae of neonatal respiratory distress (human)
R01HL-20612-02 Chronic animal model of pulmonary vascular injury (dogs)
R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
** R01HL-22622-01 Sleep apnea and desaturation-mechanisms and incidence (human)
** N01HR-62942-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (humam)
** N01HR-62943-05 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62944-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62945-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62946-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62947-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)

RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, POSITIVE PRESSURE BREATHING

P50HL-14214-07 0012 Newborn lung center for hyaline membrane disease - Pulmonary status of children who had HMO as infants
P50HL-14214-07 0030 Newborn lung center for hyaline membrane disease - Effects of ductal patency--Impedance cardiography and echocardiography (human)
P01HL-14414-07 0007 Environmental influences on cardiorespiratory and cellular functions - Neural control of respiration (human, cats)
P01HL-14414-07 9002 Environmental influences on cardiorespiratory and cellular functions - Core--Computer facility
P01HL-14580-07 0003 Program project in respiratory mechanics - Chest wall mechanics and respiratory control (human, dogs)
R01HL-15526-05 Respiratory mechanics in children
** P60HL-17292-04 0009 Vermont Lung Center - Controlled clinical trials on a clinical core unit (human)
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
P50HL-19155-02 0001 Pathophysiology of pulmonary edema - Pulmonary edema study unit (human, dog)
P50HL-19185-02 0007 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sodium bicarbonate and albumin in resuscitation of preterm infants (human)
** P50HL-19185-02 0009 Pulmonary SCOR--Neonatal respiratory distress syndromes - Nasal continuous positive airway pressure in hyaline membrane disease (human)
P50HL-19185-02 0011 Pulmonary SCOR--Neonatal respiratory distress syndromes - Complications and sequelae of neonatal respiratory distress (human)
** P50HL-19187-02 0010 Pediatric pulmonary SCOR--Hyaline membrane disease - Treatment, outcome of HMO--Continuous positive airway pressure (human, monkey)
R01HL-19449-03 Gas exchange in acute respiratory failure
** R01HL-20690-02 Pulmonary hemodynamics in lung edema during PEEP (dogs)
R23HL-21405-01 Respiratory muscles in regulation of infant breathing (human)
** N01HR-72901-02 Study of intermittent positive pressure breathing (data center)
** N01HR-72902-04 Study of intermittent positive pressure breathing
** N01HR-72903-05 Study of intermittent positive pressure breathing
** N01HR-72904-03 Study of intermittent positive pressure breathing
** N01HR-72905-03 Study of intermittent positive pressure breathing
** N01HR-72906-03 Study of intermittent positive pressure breathing

RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, PULMONARY LAVAGE

** P01HL-07896-15 0021 Environmental biomedical research program - Liquid breathing and lung lavage (human)
** R01HL-13885-08 0005 Cystic fibrosis and pulmonary disease - Evaluation of lobar pulmonary lavage (human)
R01HL-13885-08 9003 Cystic fibrosis and pulmonary disease - Fiberoptic bronchoscopy core facility (human, dogs, sheep)
P50HL-14212-07 0004 Correlated studies of pulmonary fibrosis - Collagen metabolism in lung tissue and lung cells (human, animal)
P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
P50HL-14212-07 0007 Correlated studies of pulmonary fibrosis - Protein metabolism in alveolar macrophages (rabbits, guinea pigs, human)
** P50HL-14212-07 0014 Correlated studies of pulmonary fibrosis - Pulmonary lavage cells, secretions in diffuse intersititial lung disease (human)
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
** P01HL-16748-05 0006 Cellular and immunological basis of pulmonary diseases - Sarcoidosis--Studies with bronchial lavage (human)
** P01HL-17417-05 0003 Experimental lung transplantation - Methods for detecting lung allograft rejection (dogs)
R01HL-22843-01 Pulmonary physiology in liquid ventilation (lambs)

RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, RESPIRATORS

P50HL-14214-07 0012 Newborn lung center for hyaline membrane disease - Pulmonary status of children who had HMO as infants
P01HL-17813-04 0006 Lung disease and the oxygenation of blood and tissue - Assessment of respiratory muscle contractile force (human, dogs)
R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
R01HL-22022-01 Respiratory muscle dysfunction in respiratory failure (human)

RESPIRATORY CARE UNITS

SEE HOSPITALS, INTENSIVE CARE UNITS, RESPIRATORY

RESPIRATORY CENTER

SEE BRAIN, RESPIRATORY CENTER

RESPIRATORY CENTER DYSFUNCTION HYPOVENTILATION

SEE RESPIRATORY FUNCTION, HYPOVENTILATION, RESPIRATORY CENTER DYSFUNCTION

RESPIRATORY CIRCULATION

R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-08899-14 0008 Tolerance to respiratory gases in health and disease - Hypoxia in regards to respiratory and brain circulatory control (goats)
** P01HL-08899-14 0024 Tolerance to respiratory gases in health and disease - Effects of oxygen pressures on physiological control systems (human, dogs)
R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
** R01HL-21948-01 Capillary, tissue volume and lymph flow in lung edema (sheep, cattle)

RESPIRATORY CIRCULATION, BRONCHIAL CIRCULATION

P01HL-06285-18 0145 Cardiovascular-respiratory physiology and biochemistry - Pulmonary, pleural and systemic microcirculation (animals)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
P01HL-17417-05 0006 Experimental lung transplantation - Bronchial anastomotic problems and increases donor lung availability (dog)
** R01HL-22928-01 Systematic study of bronchial circulation (sheep)

RESPIRATORY CIRCULATION, PULMONARY ARTERY

** P01HL-06312-17 0048 Surgical cardiology - Use of an adjustable pulmonary artery band (dogs)
** P01HL-06312-17 0049 Surgical cardiology - Long-term pulmonary vascular resistance (human)
** P01HL-06370-17 0016 Cardiopulmonary and renal pathology research center - Endocarditis with pulmonary artery catheters (dogs)
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Dirofilaria immitis in the dog
P01HL-11310-12 0075 Mechanisms of cardiovascular disease - Bipolar atrial electrograms from Bachmann's bundle (dogs)
R01HL-14645-07 Blood flow measurement by ultrasonic catheter tip methods (human, dogs)
** R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
R01HL-20087-02 Developmental processes in pulmonary hypertension (rats)
R01HL-20219-02 Cryopreservation of the isolated heart (rats)
R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
** P01HL-20581-01 0004 Vascular neuroeffector mechanisms in health and disease - Neuroeffector characteristics of mesenteric and pulmonary blood vessels (rabbits)
** R01HL-22177-02 Mechanisms of control of pulmonary smooth muscle (dogs)
** R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)
R01HL-23224-01 Hypoxia and pulmonary vascular smooth muscle (rat, cat)
R01HL-23232-01 Effect of hypoxia on PVSM and its precursor cells
** R01HL-23233-01 Pulmonary artery intermediate filament structure (cattle)
** R01HL-23239-01 Functional characteristics of pulmonary vascular smooth muscle (dogs)
R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)
R01HL-23249-01 Actin-myosin interaction in pulmonary smooth muscle (cattle)
** R01HL-23542-01 Pulmonary vascular smooth muscle cell dynamics (rat, rabbit)
N01HR-62920-02 Noninvasive diagnosis of pulmonary hypertension (dog, human)

RESPIRATORY CIRCULATION, PULMONARY CIRCULATION

** R01HL-03180-21 Relation of lymphatics to cardiopulmonary function (dogs)
P01HL-04664-18 0016 Cardiovascular and lung dynamics - Computerized roentgenographic determination of total lung capacity
** R01HL-05883-18 0006 Reflex control of resistance and capacitance vessels - Cardiopulmonary vagal afferents in the conscious dog
P01HL-06285-18 0127 Cardiovascular-respiratory physiology and biochemistry - Experimental congenital cardiac lesions in fetal lambs
** P01HL-06285-18 0128 Cardiovascular-respiratory physiology and biochemistry - Pulmonary circulation in fetal lambs in utero
** P01HL-06285-18 0129 Cardiovascular-respiratory physiology and biochemistry - Pulmonary microcirculation in the fetus and neonate (lambs)
P01HL-06285-18 0136 Cardiovascular-respiratory physiology and biochemistry - Fetal microcirculation in utero (rabbits, lambs)
** P01HL-06285-18 0145 Cardiovascular-respiratory physiology and biochemistry - Pulmonary, pleural and systemic microcirculation (animals)
P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration - Role of vagus nerve (dogs)
** P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
P01HL-06314-17 0047 Immunologic mechanisms in cardiovascular disease - Role of intravascular coagulation (human, animals)
** P01HL-06835-17 0051 Cardiovascular disease - Cardiopulmonary volume in hypertension (human)
P01HL-06835-17 0053 Cardiovascular disease - Vasodilating drugs (human)
P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
** P01HL-08682-15 0038 Regulation of the cardiovascular system - Control of pulmonary circulation (dogs)
R01HL-08696-15 0020 Orthotopic heart transplantation - Complete cardiopulmonary transplantation (dogs)
P01HL-08805-15 0025 Regulation of ventilation and pulmonary circulation - Pulmonary edema (rabbits)
P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Dirofilaria immitis in the dog
P01HL-08899-14 0080 Tolerance to respiratory gases in health and disease - Dynamic quantitation of continuous isobaric gas embolization
** R01HL-10009-13 Regional lung function in man
M P01HL-10342-13 The integrated function of respiration and circulation
** P01HL-10342-13 0006 The integrated function of respiration and circulation - Lung inflation effects on pulmonary vasculature and interstitial space (dogs)
P01HL-10342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
** P01HL-10342-13 0024 The integrated function of respiration and circulation - Cytochrome P450 and physiological response to hypoxia (rats)
** P01HL-10342-13 0025 The integrated function of respiration and circulation - Pulmonary gas exchange and metabolism (human, dogs, sheep)
P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
** R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
** R01HL-10834-09 Fetal and neonatal pulmonary circulation (goats)
** R01HL-11152-12 Vascular physiology (human, cats, dogs)
P01HL-11310-12 0060 Mechanisms of cardiovascular disease - Effect of left atrium on the circulation--Simulation
P01HL-11678-11 0009 Cardiovascular dynamics and their control - Control of respiration (cat, human)
** P01HL-11678-11 0036 Cardiovascular dynamics and their control - Pulmonary capillary dynamics and edema (dogs)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
** R01HL-11919-08 Pulmonary circulation in surgical heart disease (human, dogs)
** R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
M R01HL-12879-09 Pulmonary transport and metabolism in vivo
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
** R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)
P50HL-14153-07 0017 Johns Hopkins Lung Center--Chronic diseases of airways - Collateral ventilation and pulmonary interdependence (pig, dog, human)
** P50HL-14187-07 0015 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pathophysiologic responses of pulmonary capillary bed (dog, human)
** P50HL-14214-07 0025 Newborn lung center for hyaline membrane disease - Pulmonary vascular permeability and lung water--Hyaline membrane disease (sheep)
P50HL-14214-07 0026 Newborn lung center for hyaline membrane disease - Hemodynamic studies of HMD--Prostaglandins production and blockers (lambs)
P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in RDS (sheep, cat)
P01HL-14414-07 0007 Environmental influences on cardiorespiratory and cellular functions - Neural control of respiration (human, cats)
P01HL-14414-07 0015 Environmental influences on cardiorespiratory and cellular functions - Control of the cardiovascular system (dogs)
** R01HL-14456-07 Lung metabolism--Enzymes in the pulmonary circulation (human, animals)
R01HL-14529-07 Systems analysis of baroreflex (dogs)
R01HL-14967-06 Chemoreceptor function in dynamic ventilatory control (human, dogs)
M P01HL-14985-07 Adaptation to hypoxia
** P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
** P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
** P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
** P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
P01HL-14985-07 0014 Adaptation to hypoxia - High altitude pulmonary edema (human, rats, dogs)
** P01HL-14985-07 0015 Adaptation to hypoxia - Pregnancy at high altitude (human, animals)
M P01HL-15194-07 Pathophysiology of cardiopulmonary dysfunction
P01HL-15194-07 0009 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Diffusion and erythrocytes reaction rates (human, dogs)
** P01HL-15194-07 0011 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Oxygen effects on intrapulmonary shunting (human)
P01HL-15194-07 0022 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Pulmonary carbon dioxide exchange (dogs)
** R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
R01HL-15526-05 Respiratory mechanics in children
** R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
** R01HL-15694-06 Pulmonary factors in circulatory regulation
P01HL-15832-06 0005 Chemical-structural predispositions to lung injury - Pulmonary structure and stress-strain relationships (rats)
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
** R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
R01HL-16784-03 Lung tissue and water volume (human, dogs)
** R01HL-16916-04 0001 The role of albumins in lung water accumulation - Capillary permeability (dogs, human)
R01HL-16916-04 0002 The role of albumins in lung water accumulation - Lung water balance--Forces, models and albumin concentrations (rabbits, dogs)
** R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
P01HL-17417-05 0005 Experimental lung transplantation - Lung transplantation in bilateral emphysema (dogs)
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)
P50HL-17655-04 0003 Study of ischemic heart disease - Cardiopulmonary resuscitation (human, dog)
P50HL-17665-04 0027 Study of ischemic heart disease - Positron imaging of regional myocardial perfusion (human, dog)
P50HL-17682-04 0007 Study of ischemic heart disease - Mechanisms of hypoxemia in myocardial infarction (human)
** R01HL-17711-05 Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs)
M P01HL-17731-04 Physiological basis of pulmonary disease
** P01HL-17731-04 0001 Physiological basis of pulmonary disease - Mechanisms of blood flow and ventilation (dogs)
** P01HL-17731-04 0002 Physiological basis of pulmonary disease - Biomechanics of the lung (frogs, cats)
** P01HL-17731-04 0003 Physiological basis of pulmonary disease - Comparative physiology (vertebrates)
** P01HL-17731-04 0007 Physiological basis of pulmonary disease - Theoretical gas exchange
** P01HL-17731-04 0011 Physiological basis of pulmonary disease - Morphometric studies of the lung--Core
R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
P01HL-17812-04 0007 Thrombosis and plasma proteins - Blood components--Response to endotoxin (dogs, baboons)
M P01HL-17813-04 Lung disease and the oxygenation of blood and tissue
** P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)
R01HL-18028-03 Absorption of nonvolatile compounds from the lung
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18084-03 Artificial heart and related problems (calves)
** R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
** R01HL-18630-03 Pulmonary hemodynamics in atelectasis and hypoxia (dogs)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-18718-04 Prostaglandin precursors and vascular reactivity (dogs)
R01HL-18762-03 Post-traumatic pulmonary insufficiency (dogs)
R01HL-18952-03 Metabolism in perfused fetal and newborn rabbit lungs
R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
M P50HL-19153-02 SCOR--Pulmonary edemas--Eitology, pathogenesis
** P50HL-19153-02 0001 SCOR--Pulmonary edemas--Eitology, pathogenesis - Prostaglandins and the lung circulation (sheep)
P50HL-19153-02 0002 SCOR--Pulmonary edemas--Eitology, pathogenesis - Lung fluid dynamics--Classical mediators and their inhibitors (sheep)
P50HL-19153-02 0003 SCOR--Pulmonary edemas--Eitology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
** P50HL-19153-02 0004 SCOR--Pulmonary edemas--Eitology, pathogenesis - Physical mechanisms in lung transvascular transport--Math models (sheep)
P50HL-19153-02 0005 SCOR--Pulmonary edemas--Eitology, pathogenesis - Lung vascular permeability measured by indicator dilution methods (sheep)
P50HL-19153-02 0006 SCOR--Pulmonary edemas--Eitology, pathogenesis - Pulmonary vascular abnormalities in human lung diseases
P50HL-19153-02 0007 SCOR--Pulmonary edemas--Eitology, pathogenesis - Core--Experimental laboratories and support facilities
P50HL-19155-02 0001 Pathophysiology of pulmonary edema - Pulmonary edema study unit (human, dog)
** P50HL-19155-02 0005 Pathophysiology of pulmonary edema - Protein exchange sites and lymph protein concentration in lung (mice, sheep)
P50HL-19156-02 0002 Pulmonary SCOR--Chronic diseases of airways - Early detection of emphysema and chronic airway obstruction (human, dog)
P50HL-19185-02 0004 Pulmonary SCOR--Neonatal respiratory distress syndromes - Fluid and protein transport in fetal and newborn lung (sheep, rabbits)
P50HL-19185-02 0009 Pulmonary SCOR--Neonatal respiratory distress syndromes - Nasal continuous positive airway pressure in hyaline membrane disease (human)
P50HL-19185-02 0011 Pulmonary SCOR--Neonatal respiratory distress syndromes - Complications and sequelae of neonatal respiratory distress (human)
** P50HL-19187-02 0001 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Changes in lung mechanics and gas exchange (monkeys)
M R01HL-19225-02 Types and mechanims of pulmonary hypertension
** R01HL-19225-02 0001 Types and mechanims of pulmonary hypertension - Structural changes (human, animals)
** R01HL-19225-02 0002 Types and mechanims of pulmonary hypertension - Effect of aorto-pulmonary shunt (pigs)
** R01HL-19225-02 0003 Types and mechanims of pulmonary hypertension - Cardiopulmonary function in pigs and rats
** R01HL-19225-02 0004 Types and mechanims of pulmonary hypertension - Structural changes in human pulmonary circulation (human, animals)
** R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)
R01HL-19733-03 Absorption of antigen through inflamed lungs (rabbits)
P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport
P01HL-19737-02 0010 Cellular and molecular aspects of respiratory physiology - Effects of pulsatile flow and volume on capillary exchanges (dogs, rats)
R01HL-20344-02 Regulation of protein turnover in lung tissue (rats)
R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
R01HL-20548-02 Innervation of the lung (rats, monkeys)
R01HL-20612-02 Chronic animal model of pulmonary vascular injury (dogs)
** R01HL-20652-01 Sites of leakage in pulmonary edema (dogs)
** R01HL-20690-02 Pulmonary hemodynamics in lung edema during PEEP (dogs)
** R01HL-20719-02 Cold induced pulmonary hypertension (cattle)
** R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
P01HL-20994-02 0001 Dynamics of neutrophil elastase in the lung - Dynamics of neutrophil elastase in normal animals (dogs, rabbits)
P01HL-20994-02 0002 Dynamics of neutrophil elastase in the lung - Neutrophil and neutrophilic elastase in human lungs
** R01HL-21076-02 Lung fluid, protein exchange after hemorrhagic shock (sheep)
R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
** R01HL-21452-02 Pulmonary capillary filtration in myocardial ishemia (dogs)
** R01HL-21568-02 Cell biology of the alveolar-capillary unit (animals)
P01HL-21584-02 0003 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on ventilation and respiratory mechanics in man
** R23HL-21853-01 Lung metabolism and alveolo-capillary permeability (rats)
R01HL-21893-01 Blood volume distribution in hypertension (human)
** R23HL-21943-01 Capillary morphology in pulmonary edema (dogs)
** R01HL-22077-01 Vasoactive amine disposition in cultured endothelium (rabbits)
** R01HL-22223-01 The cardio-pulmonary junction (dogs, models)
** R01HL-22244-01 Cardiopulmonary bypass and the vascular endothelium (dogs)
R01HL-22326-01 Noninvasive measurement of cardiac output (dogs)
** R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)
** R01HL-22520-01 Pulmonary vascular response to group B Streptococci (human, mammals)
** R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)
** R01HL-22911-01 Mechanism of clearance of lung edema fluid (dogs)
** R23HL-22933-01 Transvascular fluid and protein exchange in the lung (sheep)
** R01HL-23015-01 Mechanisms of hypo-oncotic pulmonary edema (human, dogs)
** R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)
** R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
** R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)
** R01HL-23232-01 Effect of hypoxia on PVSM and its precursor cells
** R01HL-23239-01 Functional characteristics of pulmonary vascular smooth muscle (dogs)
** R01HL-23240-01 Pulmonary vascular muscle metabolism and contractility (rats, cattle)
** R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)
N01HV-12060-18 Tissue cultured endothelium for vascular prosthetic devices (human, animals)

RESPIRATORY CIRCULATION, PULMONARY VEINS

R01HL-15694-06 Pulmonary factors in circulatory regulation
** R01HL-22177-02 Mechanisms of control of pulmonary smooth muscle (dogs)
R01HL-23245-01 Adrenergic receptors in pulmonary vascular muscle (human, animal)

RESPIRATORY CIRCULATORY DISORDERS

SEE ALSO CONGENITAL ABNORMALITIES, RESPIRATORY DISTRESS SYNDROME
SEE ALSO DISEASES, SYNDROMES NOT LISTED ELSEWHERE, GOODPASTURE'S SYNDROME
SEE ALSO RESPIRATORY DISORDERS (GENERAL)
SEE ALSO RESPIRATORY DISORDERS, PULMONARY EDEMA
** R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-11919-08 Pulmonary circulation in surgical heart disease (human, dogs)
M P50HL-14187-07 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses
** P50HL-14187-07 0012 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
** P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
** P50HL-14187-07 0016 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Core pathology service (dogs, rabbits, human)
P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in ROS (sheep, cat)
M P01HL-14985-07 Adaptation to hypoxia
** P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
R01HL-17437-03 'Perfusion lung'--Role of traumatized leukocytes (dogs, human)
** R01HL-17711-05 Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs)
** R01HL-17800-04 Pulmonary reflexes--Central pathways (cats, dogs, rabbits)
P01HL-17813-04 0002 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Ultrastructural abnormalities (human)
P50HL-19155-02 0001 Pathophysiology of pulmonary edema - Pulmonary edema study unit (human, dog)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
R01HL-19725-03 Complement induced pulmonary injury (dogs, rabbits, sheep)
R01HL-20110-02 Microwave methods of lung water measurement (dogs, phantom models)
R01HL-20675-02 Alveolar macrophage function in man
** R01HL-20878-02 Cellular aspects of lung injury (rats, rabbits)
R01HL-22327-01 Transport of arterial blood gases through skin (swine)

RESPIRATORY CIRCULATORY DISORDERS, PULMONARY CIRCULATORY OBSTRUCTIONS

SEE ALSO BLOOD TREATMENT, BLOOD FILTERS, VENA CAVA FILTERS
P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
P01HL-11414-11 0004 Thrombosis and atherosclerosis program - Platelet function and nonthrombogenic surfaces (human)
** P01HL-11414-11 0027 Thrombosis and atherosclerosis program - Thermal memory wire filter to prevent pulmonary embolism (human, dogs)
P01HL-11414-11 0028 Thrombosis and atherosclerosis program - Catecholamine metabolism in the lung (rat)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-11919-08 Pulmonary circulation in surgical heart disease (human, dogs)
R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
** R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)
R01HL-13639-07 Factors altering the course of myocardial dysfunction (cats)
R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
P50HL-14147-08 0007 Specialized center of research in thrombosis - Radioactive tracers in recognition of intravascular coagulation (human, dogs)
P50HL-14147-08 0016 Specialized center of research in thrombosis - Nuclear medicine core laboratory (human, dogs, rats, rabbits)
P50HL-14187-07 0005 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary hypertension and cardiac function (dogs, human)
** P50HL-14187-07 0008 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary thromboembolism (dogs, human)
P50HL-14187-07 0012 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
P50HL-14187-07 0015 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pathophysiologic responses of pulmonary capillary bed (dog, human)
** P50HL-14187-07 0016 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Core pathology service (dogs, rabbits, human)
P50HL-14217-08 0052 Specialized center of research in thrombosis - Radioisotope nuclear medicine section (human, dog)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
** P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
P60HL-15160-07 0015 Center for sickle cell disease - Lung function abnormalities in sickle cell hemoglobinopathies (human)
P60HL-15169-05 0015 Support for center for sickle cell disease - Pathophysiology of acute pulmonary infiltrates in sickle cell disease (human)
** P01HL-15486-06 0006 Studies on thrombosis - Clinical investigation unit
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
** P01HL-15596-05 0007 Coagulation, fibrinolysis, hemostasis and hepatitis - Structural studies and fractionation of urokinase (human)
R01HL-16952-05 Cardiovascular pathology (rats, rabbits)
P60HL-17265-04 0007 Community blood resource center support - Research--Massive transfusion and trauma (human)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-17665-04 0027 Study of ischemic heart disaase Positron imaging of regional myocardial perfusion (human, dog)
R01HL-17719-03 Lung injury, substrale utilization, oxygen toxicity (rats, rabbits, dogs)
** P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
P01HL-17813-04 0001 Lung disaase and the oxygenation of blood and tissue - Oiffuse interstitial lung disease--Pathophysiology (human, dogs)
** R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
** P01HL-18576-03 0013 Thrombosis research program project - Early warning and monitoring tast systems in thrombotic disease (human)
R01HL-18738-02 Prevention of postoperative venous thrombi (human, cattle)
R01HL-18815-03 Surgical vascular disorders (human, dogs)
R01HL-18873-02 Early radiologic diagnosis of cardiac failure (monkey)
** P50HL-19155-02 0004 Pathophysiology of pulmonary edema - Physical and chemical effects of multiple pulmonary emboli (sheep)
** R01HL-20554-02 Memory-alloy-filters for venous emboli (dogs)
R01HL-21182-02 Active tension and shortening in cardiac hypertrophy (rabbits)
** R01HL-21518-01 Improvement in regional ventilation-perfusion resolution (human)
** R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
R01HL-21572-01 Natural history of the postphlebitic syndrome
R01HL-22582-01 Pulmonary and circulatory alterations induced by IGE
R01HL-22852-01 Oiagnostic techniques in venous thromboembolism (human)

RESPIRATORY CIRCULATORY DISORDERS, PULMONARY HEART DISEASE

SEE ALSO HEART DISOROERS, VALVULAR, PULMONARY VALVE STENOSIS
SEE ALSO RESPIRATORY CIRCULATORY OISOROERS, PULMONARY HYPERTENSION

** R01HL-10009-13 Regional lung function in man
** P01HL-10342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
** P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
** P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
M P01HL-12373-10 Cardiopulmonary physiology and pathophysiology
** P50HL-14187-07 0005 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary hypertension and cardiac function (dogs, human)
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
R01HL-16784-03 Lung tissue and water volume (human, dogs)
R01HL-17711-05 Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs)
** P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
** R01HL-18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)
R01HL-18850-03 Classification code for Frank orthogonal ECG
** R23HL-22621-01 Blood cell-mediated pulmonary (human)
** R01HL-22622-01 Sleep apnea and desaturation-mechanisms and incidence (human)
** R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)
** N01HR-62942-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (humam)
** N01HR-62943-05 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62944-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62945-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62946-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62947-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)

RESPIRATORY CIRCULATORY DISORDERS, PULMONARY HYPERTENSION

SEE ALSO RESPIRATORY CIRCULATORY OISOROERS, PULMONARY HEART DISEASE

P01HL-06285-18 0146 Cardiovascular-respiratory physiology and biochemistry - Pathogenesis and detection of hypoxic pulmonary edema (human, animals)
P01HL-06308-18 0012 Mechanisms and therapy of circulatory disease - Echocardiographic evaluation of hemodynamics of arrhythmia (human)
P01HL-06835-17 0053 Cardiovascular disaase Vasodilating drugs (human)
** P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation Permeability of alveolo-Capillary membrane in normal pulmonary hypertansivo lung
** P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation Pulmonary hypertension produced by Oirofilaria immitis in the dog
P01HL-10436-13 0002 A multidisciplinary study of congenital haart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
R01HL-10834-09 Fetal and neonatal pulmonary circulation (goats)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
** R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
** P50HL-14187-07 0005 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary hypertension and cardiac function (dogs, human)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
M P01HL-14985-07 Adaptation to hypoxia
P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
** P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
P01HL-14985-07 0014 Adaptation to hypoxia - High altitude pulmonary edema (human, rats, dogs)
** P01HL-14985-07 0015 Adaptation to hypoxia - Pregnancy at high altitude (human, animals)
** R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
** R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
** R01HL-17581-03 Patent ductus arteriosus and pulmonary hypertension (dogs)
R01HL-17711-05 Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs)
M P01HL-17813-04 Lung disease and the oxygenation of blood and tissue
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Oiffuse interstitial lung disease--Pathophysiology (human, dogs)
** P01HL-17813-04 0008 Lung disease and the oxygenation of blood and tissue - Pulmonary regulation of systemic blood pressure (human, rabbits, rats)
** R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
** R01HL-18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)
** R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
** R01HL-18848-03 Etiology and development of congenital heart disease (dogs, cats)
M R01HL-19225-02 Types and mechanims of pulmonary hypertension
** R01HL-19225-02 0001 Types and mechanims of pulmonary hypertension - Structural changes (human, animals)
** R01HL-19225-02 0002 Types and mechanims of pulmonary hypertension - Effect of aorto-pulmonary shunt (pigs)
** R01HL-19225-02 0003 Types and mechanims of pulmonary hypertension - Cardiopulmonary function in pigs and rats
** R01HL-19225-02 0004 Types and mechanims of pulmonary hypertension - Structural changes in human pulmonary circulation (human, animals)
R01HL-19394-03 Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats)
** R01HL-20087-02 Oevelopmental processes in pulmonary hypertension (rats)
** R01HL-20719-02 Cold induced pulmonary hypertension (cattle)
** P01HL-22619-01 0009 Cellular mechanisms of heart failure - Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
** R01HL-23224-01 Hypoxia and pulmonary vascular smooth muscle (rat, cat)
** R01HL-23232-01 Effect of hypoxia on PVSM and its precursor cells
R01HL-23542-01 Pulmonary vascular smooth muscle cell dynamics (rat, rabbit)
** N01HR-62920-02 Noninvasive diagnosis of pulmonary hypertension (dog, human)

RESPIRATORY CIRCULATORY DISORDERS, PULMONARY ISCHEMIA AND HYPOXIA

P01HL-06285-18 0136 Cardiovascular-respiratory physiology and biochemistry - Fetal microcirculation in utero (rabbits, lambs)
** P01HL-06285-18 0146 Cardiovascular-respiratory physiology and biochemistry - Pathogenesis and detection of hypoxic pulmonary edema (human, animals)
R01HL-10009-13 Regional lung function in man
R01HL-11802-10 Cardiovascular surgical rasearch (dogs, sheep, swine, cats, monkeys)
R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)
P50HL-14187-07 0012 Pulmonary SCOR-Chemical mediators in pulmonary vascular responsas Vasoactive mediators in pulmonary disease (human, animal)
P50HL-14187-07 0015 Pulmonary SCOR-Chemical mediators in pulmonary vascular responses Pathophysiologic responses of pulmonary capillary bed (dog, human)
** P50HL-14187-07 0016 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Core pathology service (dogs, rabbits, human)
P50HL-14214-07 0022 Newborn lung center for hyaline membrane disease - Functional integrity of surfactant system--Hyaline mambrane disease (lamb, rat)
P50HL-14214-07 0029 Newborn lung center for hyaline membrane disease - The diving reflex--Perinatal asphyxia, pulmonary ischemia and HMO (sheep)
M P01HL-14985-07 Adaptation to hypoxia
P01HL-14985-07 0002 Adaptation to hypoxia - Oxygen transport in man at high altitude
** P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
** P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
** P01HL-14985-07 0012 Adaptation to hypoxia - Oirect effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
** P01HL-14985-07 0013 Adaptation to hypoxia - Chronic mountain sickness (men)
P01HL-15194-07 0011 Pathophysiology of cardiopulmonary dysfunction - Oistribution of ventilation--Oxygen effects on intrapulmonary shunting (human)
P01HL-17731-04 0007 Physiological basis of pulmonary disease - Theoretical gas exchange
** R01HL-18143-03 Surgery and pulmonary tissue alterations (dogs, rats, human)
** R01HL-18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)
R01HL-20566-02 Lactate metabolism in the lung (rats)
R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
** R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)
** R23HL-22932-01 Effect of carbon dioxide on local gas exchange (dogs)

RESPIRATORY DISORDERS (GENERAL)

SEE ALSO HOSPITALS, INTENSIVE CARE UNITS, RESPIRATORY
SEE ALSO HYPERSENSITIVITY, RESPIRATORY HYPERSENSITIVITY
SEE ALSO INJURIES, CHEST
SEE ALSO RESPIRATORY ASSIST ANO OXYGEN AOMINISTRATION, AEROSOL THERAPY
SEE ALSO RESPIRATORY CIRCULATORY OISOROERS
SEE ALSO RESPIRATORY INFECTIONS

** R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
M P01HL-06285-18 Cardiovascular-respiratory physiology and biochemistry
P01HL-07896-15 0021 Environmental biomedical research program - Liquid breathing and lung lavage (human)
** R01HL-08789-11 Respiratory muscles and ventilatory control in man (and dogs)
M P01HL-08805-15 Regulation of ventilation and pulmonary circulation
M P01HL-10342-13 The integrated function of respiration and circulation
P01HL-11310-12 0093 Mechanisms of cardiovascular disease - Multiple dipole electrocardiogram project (human, dogs)
** R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
R01HL-13888-15 Regulation of respiration
** P50HL-14136-07 9003 Pulmonary SCOR--Airways obstructive diseases - Pathology core (human, dogs)
M P01HL-14580-07 Program project in respiratory mechanics
** R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
** R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
R01HL-15659-05 Oynamic isolation studies of control of respiration (human)
P01HL-16411-04 0004 Blood systems in coagulation and vessel disease - Platelets reactions in vascular injury (human, animals)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Onented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

M P01HL-16748-05 Cellular and immunological basis of pulmonary diseases
** P01HL-16748-05 0002 Cellular and immunological basis of pulmonary diseases - Immunological function of alveolar macrophages (rabbits, sheep, mice)
R01HL-16784-03 Lung tissue and water volume (human, dogs)
M P60HL-17292-04 Vermont Lung Center
P60HL-17292-04 0008 Vermont Lung Center - Respiratory physiology--Teaching, learning and auditing problem-solving skills
** P60HL-17292-04 0013 Vermont Lung Center - Regional management of respiratory disease program
** P60HL-17292-04 0020 Vermont Lung Center - Mass information--Education project
** P60HL-17292-04 0021 Vermont Lung Center - School lung education project
** P60HL-17292-04 0023 Vermont Lung Center - Health information resources
** P60HL-17292-04 0024 Vermont Lung Center - Education and media resources unit
M P01HL-17731-04 Physiological basis of pulmonary disease
** P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
M P01HL-17813-04 Lung disease and the oxygenation of blood and tissue
** R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
** R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
R01HL-18328-03 Hemoglobin function and tissue oxygenation (human, dogs)
R01HL-18952-03 Metabolism in perfused fetal and newborn rabbit lungs
R01HL-19118-03 Measurement of airways mechanics (human, dog)
R01HL-19715-02 Respiratory tract deposition of hygroscopic aerosols (dogs, human)
M P01HL-19717-02 Response of the lung to injury
** P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic
** P01HL-19717-02 0046 Response of the lung to injury - Bioengineering section
R01HL-20675-02 Alveolar macrophage function in man
** R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
M P01HL-21584-02 Respiratory mechanics in normal and abnormal states
** R01HL-22333-01 Cellular basis of small airways function (rats)
** R23HL-22437-01 Leukotactic mediators in lung inflammatory reactions (rats, rabbits, human)
** R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)
** R01HL-23981-01 Acute alveolar injury (dogs)

RESPIRATORY DISORDERS, ACIDOSIS, RESPIRATORY

P50HL-14218-07 0018 Pulmonary SCOR--Newborn lung center - Whole body buffering in acute hypercapnia (dogs)
R01HL-14461-08 Cardiac metabolism in heart failure (rats)
** R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
P01HL-18708-03 0009 Oxygen, energy and contractility in cardiac tissue - Regulation of oxygen utilization of cardiac tissue (rats, rabbits)
** P50HL-19185-02 0007 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sodium bicarbonate and albumin in resuscitation of preterm infants (human)
R01HL-20196-02 Regulation of coronary arterial smooth muscle
R01HL-20719-02 Cold induced pulmonary hypertension (cattle)
** R01HL-21500-02 Performance of respiratory muscles under stress (dogs)
R01HL-22650-01 Regulatory mechanisms of erythropoietin production (human, rats, mice)

RESPIRATORY DISORDERS, ATELECTASIS

SEE ALSO BODY CAVITY DISORDERS, PLEURAL, PNEUMOTHORAX (GENERAL)
P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
P50HL-14153-07 0017 Johns Hopkins Lung Center--Chronic diseases of airways - Collateral ventilation and pulmonary interdependence (pig, dog, human)
P01HL-17731-04 0002 Physiological basis of pulmonary disease - Biomechanics of the lung (frogs, cats)
** R01HL-18630-03 Pulmonary hemodynamics in atelectasis and hypoxia (dogs)
R01HL-18762-03 Post-traumatic pulmonary insufficiency (dogs)
** R23HL-21050-02 Mechanisms of re-expansion pulmonary edema (rabbits)
** R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)

RESPIRATORY DISORDERS, BRONCHIAL DISORDERS (GENERAL)

R01HL-14271-07 Physico-chemical properties of tracheal mucus (dogs, frogs)
R23HL-19619-01 Sem and x ray analysis in human pulmonary pathology
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-21829-01 Etiology of obstructive airway disease in children (also monkeys)
** R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)

RESPIRATORY DISORDERS, BRONCHIECTASIS

P50HL-15061-07 0007 Response of lung to injury - Human factors for phagocytosis in normal and diseased lungs
P50HL-19171-02 0003 Pulmonary SCOR--Lung injury by childhood infections - Natural history, host defense defects--Children with chronic pulmonary disease
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)

RESPIRATORY DISORDERS, BRONCHITIS ACUTE

P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLD
P50HL-14136-07 9006 Pulmonary SCOR--Airways obstructive diseases - Pediatric lung function core
** P50HL-15061-07 0010 Response of lung to injury - An animal model system for the study of bronchiolitis and its sequellae (dogs)
M P50HL-19157-02 Studies in cystic fibrosis and bronchiolitis
** P50HL-19157-02 0002 Studies in cystic fibrosis and bronchiolitis - Clinical core
** P50HL-19157-02 0011 Studies in cystic fibrosis and bronchiolitis - Pathogenesis of bronchiolitis (children)
P50HL-19171-02 0001 Pulmonary SCOR--Lung injury by childhood infections - Longitudinal study--Respiratory infections and lung growth in normal children
** P50HL-19171-02 0004 Pulmonary SCOR--Lung injury by childhood infections - Long-term effects of respiratory infections in early childhood
R01HL-20347-02 Bolus-response measurement of lung function (human)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-21829-01 Etiology of obstructive airway disease in children (also monkeys)

RESPIRATORY DISORDERS, BRONCHITIS CHRONIC AND EMPHYSEMA

SEE ALSO PSYCHOLOGY, HABITS, SMOKING
SEE ALSO RESPIRATORY DISORDERS, RESPIRATORY AIRFLOW DISORDERS
P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
P01HL-04664-18 0016 Cardiovascular and lung dynamics - Computerized roentgenographic determination of total lung capacity
P01HL-06285-18 0190 Cardiovascular-respiratory physiology and biochemistry - Maximal (airway) flow (human, dogs)
P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
R01HL-08789-11 Respiratory muscles and ventilatory control in man (and dogs)
R01HL-10009-13 Regional lung function in man
P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
** R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
R01HL-12564-09 Control of respiration and blood gases (human, dog)
** R01HL-12833-09 Genetic and environmental influences on lung disease (human)
** R01HL-13645-11 Tryptophan-induced pulmonary emphysema (cattle, goats, rabbits)
** R01HL-13824-06 Defense mechanisms in pathogenesis of emphysema (human, dogs)
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
M P50HL-14136-07 Pulmonary SCOR--Airways obstructive diseases
** P50HL-14136-07 0001 Pulmonary SCOR--Airways obstructive diseases - Experimental airway obstructive disease (dogs)
** P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLD
** P50HL-14136-07 0004 Pulmonary SCOR--Airways obstructive diseases - Morphometric studies of developing emphysema (human)
** P50HL-14136-07 0005 Pulmonary SCOR--Airways obstructive diseases - Radiographic studies of airways obstructive disease (human)
** P50HL-14136-07 0009 Pulmonary SCOR--Airways obstructive diseases - Tuscon epidemiological study of airways obstructive disease (human)
** P50HL-14136-07 0016 Pulmonary SCOR--Airways obstructive diseases - Environmental factors in airways obstructive diseases (human)
** P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
** P50HL-14136-07 9001 Pulmonary SCOR--Airways obstructive diseases - Biometrics core
** P50HL-14136-07 9002 Pulmonary SCOR--Airways obstructive diseases - Physiology core (human, animal)
** P50HL-14136-07 9003 Pulmonary SCOR--Airways obstructive diseases - Pathology core (human, dogs)
** P50HL-14136-07 9004 Pulmonary SCOR--Airways obstructive diseases - Radiology core (human)
** P50HL-14136-07 9005 Pulmonary SCOR--Airways obstructive diseases - Clinical core
** P50HL-14136-07 9006 Pulmonary SCOR--Airways obstructive diseases - Pediatric lung function core
M P50HL-14153-07 Johns Hopkins Lung Center--Chronic diseases of airways
** P50HL-14153-07 0001 Johns Hopkins Lung Center--Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)
** P50HL-14153-07 0004 Johns Hopkins Lung Center--Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)
** P50HL-14153-07 0017 Johns Hopkins Lung Center--Chronic diseases of airways - Collateral ventilation and pulmonary interdependence (pig, dog, human)
P50HL-14153-07 0018 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary function core
** P50HL-14153-07 0019 Johns Hopkins Lung Center--Chronic diseases of airways - Pathology core (human, animal)
P50HL-14212-07 0004 Correlated studies of pulmonary fibrosis - Collagen metabolism in lung tissue and lung cells (human, animal)
P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
** R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
R01HL-14456-07 Lung metabolism--Enzymes in the pulmonary circulation (human, animals)
** P01HL-14580-07 0005 Program project in respiratory mechanics - Development and evaluation of tests of pulmonary function (human)
R01HL-14663-07 Pulmonary oxygen toxicity in newborn lung (human, mice)
** R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
** R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
** R01HL-14778-10 Proteolytic enzymes and inhibitors in lung disease (mammals, human)
R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
** R01HL-14865-07 Biochemical studies on the pathogenesis of emphysema (human, rats)
** P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
** P50HL-15061-07 0010 Response of lung to injury - An animal model system for the study of bronchiolitis and its sequellae (dogs)
P50HL-15092-07 0012 Immune and fibrotic response to occupational environments - Longitudinal evaluation of workers exposed to cotton dust
R01HL-15125-07 Molecular pathology of genetic disorders in man
P01HL-15194-07 0011 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Oxygen effects on intrapulmonary shunting (human)
** P01HL-15194-07 0024 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Airflow limitation in COLD (human)
R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
R01HL-15526-05 Respiratory mechanics in children
R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
M P01HL-15832-06 Chemical-structural predispositions to lung injury

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-15832-06 0001 Chemical-structural predispositions to lung injury - Chemical composition of lung connectiva tissua protains (human, animals)
** P01HL-15832-06 0002 Chemical-structural predispositions to lung injury - Connactiva tissua in lung in development and repair of injury (human, rats, mica)
** P01HL-15832-06 0004 Chemical-structural predispositions to lung injury - Proteolytic activity leucocytes in patients with obstructiva lung disaase
** P01HL-15832-06 0005 Chemical-structural predispositions to lung injury - Pulmonary structure and stress-strain relationships (rats)
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactiva agents by tha lung (human, rats, cats, dogs)
P01HL-15832-06 0010 Chemical-structural predispositions to lung injury - Kinin generating systems in pulmonary disaasa (human, animals)
P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structuras and contractility in calls of lung raspiratory tract
R01HL-15979-05 Elastasa, serum inhibitors and the vasculature (human, swina)
M P01HL-16118-06 Study of emphysema
** P01HL-16118-06 0003 Study of amphysema - Oegradation of collagan and alastin (human, hamsters, mice)
** P01HL-16118-06 0004 Study of amphysama - Matabolic activity of pulmonary connectiva tissua (human, hamsters)
** P01HL-16118-06 0005 Study of amphysema - Machanisms of alastasa amphysama (mice)
** P01HL-16118-06 0006 Study of emphysema - Metabolism of alastin (hamsters)
** R01HL-16166-05 Structura of alpha-1-antitrypsin in relation to amphysema (human)
** R01HL-16463-05 Localization of airways obstruction and rasponses
P01HL-16878-05 0001 Control of ventilation in health and disaasa - Ability of asthmatics to detect added rasistiva and alastic loads
R01HL-17194-03 Comparison of two inherited forms of alpha-1-antitrypsin (human)
P60HL-17292-04 0003 Varmont Lung Canter - Subclinical pulmonary diseasa in a rural anvironment (human)
** P60HL-17292-04 0018 Vermont Lung Canter - Group patiant aducation–Braathing workshop project
** P60HL-17292-04 0021 Varmont Lung Cantar - School lung aducation projact
** P60HL-17292-04 0029 Varmont Lung Centar - Computer-assistad pra-oparativa evaluation (human)
** R01HL-17314-04 Effacts of anasthasia and loading on raspiration (human, cats)
P01HL-17417-05 0001 Experimantal lung transplantation - Machanisms and madiators of lung allograft rejaction (dogs, mica)
** P01HL-17417-05 0005 Experimantal lung transplantation - Lung transplantation in bilateral amphysema (dogs)
R01HL-17711-05 Machanism of hypoxic ragulation of lung circulation (rats, cats, guinaa pigs)
P01HL-17731-04 0001 Physiological basis of pulmonary disaasa - Machanisms of blood flow and ventilation (dogs)
P01HL-17731-04 0006 Physiological basis of pulmonary disaasa - Vantilation-parfusion ratios (human, dogs)
** R01HL-17768-04 Oavelopmant of collataral vantilation (dogs, fish, horsas)
** P01HL-17813-04 0006 Lung disaasa and tha oxyganation of blood and tissue - Assessmant of respiratory muscla contractila force (human, dogs)
** R01HL-18308-03 Comprehansiva studias of mucociliary transport (dogs)
** R01HL-18632-02 Epidemiologic study of chronic lung disaase
** R01HL-18931-02 Lung elastic tissua characteristics (swine, human)
** P50HL-19156-02 0002 Pulmonary SCOR–Chronic disaasas of airways - Early detection of emphysema and chronic airway obstruction (human, dog)
M P50HL-19170-02 Harvard pulmonary SCOR–Chronic disaases of the airways
** P50HL-19170-02 0003 Harvard pulmonary SCOR–Chronic diseases of tha airways - Machanisms of bronchial reactivity to acute and chronic airway challanga (dog)
** P50HL-19170-02 0004 Harvard pulmonary SCOR–Chronic diseasas of the airways - Exercise, increased ventilation effect on airway exposure and responses (rodent)
P50HL-19170-02 0005 Harvard pulmonary SCOR–Chronic disaases of tha airways - Pulmonary toxicology of plastics intarmediates and pyrolysis products (animal)
** P50HL-19170-02 0006 Harvard pulmonary SCOR–Chronic disaases of the airways - Mechanism of overdistansion (human, animal)
** P50HL-19170-02 0008 Harvard pulmonary SCOR–Chronic diseasas of tha airways - Multiple-transient artificial coughing (dogs, human)
** P50HL-19170-02 0009 Harvard pulmonary SCOR–Chronic diseases of tha airways - Ventilatory muscle training in chronic obstructive pulmonary disease (human)
P50HL-19171-02 0003 Pulmonary SCOR–Lung injury by childhood infections - Natural history, host defense defects--Children with chronic pulmonary disaase
P50HL-19171-02 0004 Pulmonary SCOR–Lung injury by childhood infections - Long-term affects of respiratory infections in aarly childhood
** P50HL-19171-02 0005 Pulmonary SCOR–Lung injury by childhood infections Chronic respiratory diseasa of childran in North Carolina
P50HL-19185-02 0009 Pulmonary SCOR–Neonatal respiratory distress syndromes - Nasal continuous positive airway pressura in hyalina membrane diseasa (human)
** R01HL-19237-03 Obstructiva lung diseasa and alveolar macrophages (human, animals)
P50HL-19362-02 0008 A/S SCOR–Atherosclerosis in nonhuman primates - Lung structura and function in cigaretta smoking (baboon)
R01HL-19685-03 Pathogenesis of inflammation of the lung (guinaa pigs)
M P01HL-19717-02 Response of tha lung to injury
P01HL-19717-02 0001 Responsa of the lung to injury - Lung elastic tissue (animals)
P01HL-19717-02 0002 Response of the lung to injury - Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)
** P01HL-19717-02 0003 Responsa of the lung to injury - Tha role of elastolysis in amphysema (hamsters, rabbits)
P01HL-19717-02 0005 Response of the lung to injury - Studies on proteolysis and lung disaase (human, animals)
P01HL-19717-02 0006 Response of the lung to injury - Glycosaminoglycans and protaoglycans of the lung (human, rats, hamstars)
P01HL-19717-02 0007 Response of the lung to injury - Cellular level studias of prostaglandin-lika molacules (cattle)
** P01HL-19717-02 0008 Response of the lung to injury - Experimantal modals of lung disaasa
** P01HL-19717-02 0010 Response of the lung to injury - Proteoglycans in lung function and structure (hamstars)
** P01HL-19717-02 0011 Rasponse of the lung to injury - Physiological characterization of tha elastase model (hamstars)
** P01HL-19717-02 0012 Rasponse of tha lung to injury - Connactive tissue biochemistry and anzyma injury of the lung (hamstars)
** P01HL-19717-02 0013 Rasponsa of tha lung to injury - Handling of biologically active substancas by the diseasad lung (guinaa pigs)
** P01HL-19717-02 0014 Rasponsa of tha lung to injury - Staraology of epithalializad bronchi in avolving elastasa amphysama (hamsters)
** P01HL-19717-02 0015 Rasponsa of the lung to injury - Chronic bronchitis and emphysama (hamstars)
** P01HL-19717-02 0016 Rasponse of the lung to injury - The alvaolar macrophage in elastasa emphysema (guinaa pigs, hamstars)
** P01HL-19717-02 0018 Rasponse of the lung to injury - Lung mechanics and connactive tissue composition in human emphysema
** P01HL-19717-02 0019 Response of the lung to injury - Animal modal of fibrosing alveolitis (hamstars, guinea pigs, rabbits)
** P01HL-19717-02 0020 Rasponse of tha lung to injury - Racording of lung sounds in animal models of diseasa (animals)
** P01HL-19717-02 0022 Rasponsa of tha lung to injury - Localization of enzymes and sites of action in axparimental amphysama (hamstars)
P01HL-19717-02 0028 Rasponsa of the lung to injury - Compensatory growth of the lung following pnaumonactomy (rabbits)
P01HL-19717-02 0037 Rasponsa of tha lung to injury - Catecholaminas, prostaglandins and nuclaotidas in pulmonary function (animals)
P01HL-19717-02 0038 Rasponsa of tha lung to injury - Intarstitial lung diseasa--Clinical, pathologic and apidemiologic
P01HL-19717-02 0041 Rasponsa of tha lung to injury - Cellular immunity in intarstitial lung diseasa (human)
P01HL-19717-02 0043 Rasponsa of tha lung to injury - Asbastosis as a model of usual interstitial pneumonia (human)
R01HL-19839-09 Factors in youth pradisposing to chronic diseases (former collega students)
R01HL-20070-02 Alpha-1-antitrypsin daficiency (human, hamstars)
R01HL-20347-02 Bolus-responsa maasurement of lung function (human)
R01HL-20783-02 Airway raactivity--B-adrenocaptors and prostaglandins (guinaa pigs)
R01HL-20847-02 Raspiratory neurochamical control (human, goats)
** R01HL-20875-02 Chronic obstructive pulmonary diseasa--Familial/genatic (human)
** R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
M P01HL-20994-02 Oynamics of neutrophil elastasa in the lung
** P01HL-20994-02 0001 Oynamics of nautrophil elastasa in tha lung - Oynamics of neutrophil elastase in normal animals (dogs, rabbits)
** P01HL-20994-02 0002 Oynamics of neutrophil elastase in the lung - Neutrophil and neutrophilic elastase in human lungs
** P01HL-20994-02 0003 Oynamics of neutrophil elastase in the lung - Nautrophil elastasa flux in models of lung disease (dogs)
** P01HL-20994-02 0004 Oynamics of neutrophil elastase in the lung Mechanism of enzyme inhibition by alpha 1 antitrypsin (cattle)
** P01HL-20994-02 0005 Oynamics of neutrophil elastase in the lung - Protease inhibitors in pulmonary inflammation and emphysema (rabbits)
** P01HL-20994-02 0006 Oynamics of neutrophil elastase in the lung - Protease inhibitors in human bronchial mucus
** P01HL-20994-02 0007 Dynamics of neutrophil elastase in the lung - Tha etiology of experimental emphysema (dogs)
** P01HL-20994-02 0008 Oynamics of nautrophil elastase in tha lung - Structure function correlation in experimental emphysema (human, dogs)
** P01HL-20994-02 0009 Oynamics of neutrophil elastase in the lung - Biosynthesis and degradation of elastin in emphysema (human, hamsters)
** P01HL-20994-02 9001 Oynamics of nautrophil elastase in the lung - Biochemistry and immunology core
** P01HL-20994-02 9002 Oynamics of neutrophil elastase in the lung - Ultrastructural core
** P01HL-20994-02 9003 Oynamics of neutrophil elastasa in tha lung - Autoradiography-Histology core
** R01HL-21095-02 Enzymes of M tuberculosis and obstructive lung disease (human, rodants)
** R01HL-21117-01 Altitude adaptation in chronic lung disaase (human)
R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
R23HL-21199-02 Sound transmission in lung (dog)
R23HL-21225-02 Connectiva tissue precursor moleculas in the lung (rabbits, hamsters)
** R01HL-21352-02 Community studies of obstructive lung diseasa (human)
** R23HL-21369-02 Trachaal mucin synthesis in experimental bronchitis (rats)
P01HL-21584-02 0002 Raspiratory mechanics in normal and abnormal states - Lung machanics–Ragional daformation and ventilation (dogs)
** P01HL-21584-02 0006 Respiratory mechanics in normal and abnormal states - Respiratory machanics in health and disaasa (human, pigs)
R01HL-21649-01 Biochemistry of lung proteoglycans (mammals)
** R01HL-22022-01 Respiratory muscle dysfunction in respiratory failura (human)
** R01HL-22313-01 Lung elastic recoil–Age and disaase (human)
** R01HL-22446-01 Chemical and functional studias of low copper in lung (pigs)
** R01HL-22528-02 Early risk pradictors for chronic pulmonary disease (human)
** R01HL-22622-01 Sleap apnea and desaturation-mechanisms and incidenca (human)
** R01HL-22723-01 Tha morphologic basis of airflow obstruction (human)
R23HL-22818-01 Biosynthesis of human respiratory mucous glycoprotain (also dog)
** R23HL-22932-01 Effact of carbon dioxida on local gas axchanga (dogs)
** R01HL-23595-01 Exparimantal emphysama--Oaprassion of proteasa inhibitors (rats, hamstars)
N01HR-32900-09 Pilot study to standardize tha maasuramant of 'closing voluma' (human)
N01HR-32902-07 Pilot study to standardize tha measurament of closing volume (human)
** N01HR-32903-11 Pilot study to standardiza the measuramant of 'closing volume' (human)
** N01HR-62910-02 Fibroprotain natworks of pulmonary alvaolar wall (human)
** N01HR-62931-02 Oevalopmant and evaluation of continuing aducation in pulmonary medicina
N01HR-62934-02 Evaluate continuing aducation in pulmonary madicina
** N01HR-72901-02 Study of intarmittent positive pressura breathing (data cantar)
** N01HR-72902-04 Study of intarmittent positiva prassura breathing
** N01HR-72903-05 Study of intermittant positive prassure breathing
** N01HR-72904-03 Study of intarmittent positiva pressura braathing
** N01HR-72905-03 Study of intermittent positive pressure braathing
** N01HR-72906-03 Study of intarmittent positiva pressura breathing
N01HV-53010-03 NAS-NRC twin registry

RESPIRATORY DISORDERS, BRONCHOSPASM

P01HL-10342-13 0028 Tha integrated function of raspiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
P50HL-14153-07 0012 Johns Hopkins Lung Center–Chronic diseases of airways - Aspirin intolerance in reversible lung disaase (human)
P50HL-19170-02 0007 Harvard pulmonary SCOR–Chronic diseases of the airways - Therapy effect on airway obstruction in acute asthma (human)
** R01HL-21126-02 Exercise-induced bronchospasm in children

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-21318-02 Mechanisms of emotions' asthma triggering effect (human)
N01HR-72972-01 Self-management for asthmatic children

RESPIRATORY DISORDERS, BYSSINOSIS

** P50HL-15092-07 0012 Immune and fibrotic response to occupational environments - Longitudinal evaluation of workers exposed to cotton dust
P50HL-15092-07 0014 Immune and fibrotic response to occupational environments - Clinical immunology core resource

RESPIRATORY DISORDERS, DYSPNEA

** P01HL-08899-14 0031 Tolerance to respiratory gases in health and disease - Studies in exercise (human, dogs)
P01HL-14985-07 0008 Adaptation to hypoxia - Ventilatory drive and exercise capacity (human, dogs)
P01HL-16878-05 0001 Control of ventilation in health and disease - Ability of asthmatics to detect added resistive and elastic loads
P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic
** R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)

RESPIRATORY DISORDERS, ENVIRNOMENTAL POLLUTANTS ASSOCIATED

SEE ALSO RESPIRATORY OISOROERS, BRONCHITIS CHRONIC ANO EMPHYSEMA
P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
** R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
R01HL-12833-09 Genetic and environmental influences on lung disease (human)
R01HL-13824-06 Oefense mechanisms in pathogenesis of emphysema (human, dogs)
** P50HL-14136-07 0016 Pulmonary SCOR--Airways obstructive diseases - Environmental factors in airways obstructive diseases (human)
P50HL-14153-07 0001 Johns Hopkins Lung Center--Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)
M P50HL-14212-07 Correlated studies of pulmonary fibrosis
P50HL-14212-07 0004 Correlated studies of pulmonary fibrosis - Collagen metabolism in lung tissue and lung cells (human, animal)
P50HL-14212-07 0007 Correlated studies of pulmonary fibrosis - Protein metabolism in alveolar macrophages (rabbits, guinea pigs, human)
** P50HL-14212-07 0012 Correlated studies of pulmonary fibrosis - Inorganic particulates in tobacco, smoke and lungs of cigarette smokers (human)
P50HL-14212-07 0013 Correlated studies of pulmonary fibrosis - Mechanism of beryllium pathogenicity in the lung (human, rabbit, guinea pig)
** P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
P50HL-14212-07 0016 Correlated studies of pulmonary fibrosis - Role of pulmonary alveolar macrophages in fibrosis (human, rabbit)
M P50HL-15092-07 Immune and fibrotic response to occupational environments
** P50HL-15092-07 0001 Immune and fibrotic response to occupational environments - X-ray diffraction study--Oust exposure in asbestos cement products manufacturing
** P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
** P50HL-15092-07 0005 Immune and fibrotic response to occupational environments - Respiratory and immunologic evaluation of toluene diisocyanate exposure (human)
** P50HL-15092-07 0006 Immune and fibrotic response to occupational environments - Immunologic studies in silicosis (human, rabbits, hamsters, guinea pigs)
** P50HL-15092-07 0007 Immune and fibrotic response to occupational environments - Asbestosis--Cellular immunity, structure and mineral localization (human)
** P50HL-15092-07 0008 Immune and fibrotic response to occupational environments - Animal models of asbestosis (hamsters)
** P50HL-15092-07 0010 Immune and fibrotic response to occupational environments - Characterization of toluene diisocyanate in industrial environments
** P50HL-15092-07 0011 Immune and fibrotic response to occupational environments - Respiratory and immunologic responses in coffee plant workers
** P50HL-15092-07 0012 Immune and fibrotic response to occupational environments - Longitudinal evaluation of workers exposed to cotton dust
** P50HL-15092-07 0013 Immune and fibrotic response to occupational environments - Epidemiology core resource
** P50HL-15092-07 0014 Immune and fibrotic response to occupational environments - Clinical immunology core resource
** R01HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
M P50HL-15389-07 Pulmonary SCOR--Hypersensitivity pneumonitis
** P50HL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
** P50HL-15389-07 0008 Pulmonary SCOR--Hypersensitivity pneumonitis - Milwaukee patient study--Hypersensitivity pneumonitis
P50HL-15389-07 0009 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies--Pulmonary mycotoxicosis
** P50HL-15389-07 0011 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits
** P50HL-15389-07 0013 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Pulmonary mycotoxicosis (rabbit, guinea pig)
** P50HL-15389-07 0014 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of pigeon antigens
** P50HL-15389-07 0015 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of thermophilic Actinomycete antigens
P50HL-15389-07 0019 Pulmonary SCOR--Hypersensitivity pneumonitis - Microbiology core (human, animal)
R01HL-16330-06 Aging-tissue injury and repair (rats)
R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)
P60HL-17292-04 0005 Vermont Lung Center - Mineral pneumoconioses--Pathogenesis and pathology (human)
M R01HL-17543-03 Magnetic tracers for diagnosis of lung disease
** R01HL-17543-03 0001 Magnetic tracers for diagnosis of lung disease - Chronic, interstitial lung disease (human, rabbits)
** R01HL-17543-03 0002 Magnetic tracers for diagnosis of lung disease - Magnetite as an index of asbestos exposure (human)
** R01HL-17543-03 0003 Magnetic tracers for diagnosis of lung disease - Occupationally accumulated magnetite for diagnosis of lung disease (human)
** R01HL-17543-03 0004 Magnetic tracers for diagnosis of lung disease - Magnetite retention, distribution, relaxation rate, viscosity (rabbits)
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)
** P50HL-19156-02 0001 Pulmonary SCOR--Chronic diseases of airways - Irritability of airways induced by epithelial damage in healthy subjects (human)
P50HL-19156-02 0005 Pulmonary SCOR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
M P50HL-19170-02 Harvard pulmonary SCOR--Chronic diseases of the airways
P50HL-19170-02 0003 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanisms of bronchial reactivity to acute and chronic airway challenge (dog)
** P50HL-19170-02 0004 Harvard pulmonary SCOR--Chronic diseases of the airways - Exercise, increased ventilation effect on airway exposure and responses (rodent)
** P50HL-19170-02 0005 Harvard pulmonary SCOR--Chronic diseases of the airways - Pulmonary toxicology of plastics intermediates and pyrolysis products (animal)
P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of cigarette smoking on atherosclerosis (baboon)
** P50HL-19362-02 0008 A/S SCOR--Atherosclerosis in nonhuman primates - Lung structure and function in cigarette smoking (baboon)
** R23HL-19584-01 Alveolar macrophage responses to toxic particle exposure (guinea pigs, human)
** R23HL-19619-01 Sem and x ray analysis in human pulmonary pathology
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
** R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-21120-02 Membrane dynamics in alveolar macrophages (rabbits)
R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)
** R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)
N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)
** N01HR-32903-11 Pilot study to standardize the measurement of 'closing volume' (human)

RESPIRATORY DISORDERS, LARYNGOTRACHEITIS

P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLO

RESPIRATORY DISORDERS, LUNG DISORDERS (GENERAL)

SEE ALSO BACTERIAL OISEASES, ACTINOMYCETALES INFECTIONS, TUBERCULOSIS
SEE ALSO CAROIOVASCULAR ANO PULMONARY RESEARCH STUOY SECTION
SEE ALSO OISEASES, SYNOROMES NOT LISTEO ELSEWHERE, GOOOPASTURE'S SYNOROME
SEE ALSO HYPERSENSITIVITY, RESPIRATORY HYPERSENSITIVITY, ASTHMA
SEE ALSO RESPIRATORY CIRCULATORY OISOROERS
** R01HL-01803-23 0022 Arteriosclerosis, glomerulonephritis, rheumatic fever - Cardiac and pulmonary anaphylaxis induced by tobacco glycoprotein (rabbits)
P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
** P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
** P01HL-10342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
** R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
M R01HL-13885-08 Cystic fibrosis and pulmonary disease
M P50HL-14153-07 Johns Hopkins Lung Center--Chronic diseases of airways
R01HL-14495-05 Solid and structural mechanics of lungs (mammals)
** P01HL-14580-07 0005 Program project in respiratory mechanics - Oevelopment and evaluation of tests of pulmonary function (human)
M P50HL-15061-07 Response of lung to injury
** P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
** P50HL-15061-07 0004 Response of lung to injury - Biochemical abnormalities in connective tissues (rats)
** P50HL-15061-07 0006 Response of lung to injury - Complement synthesis by pulmonary macrophages (guinea pigs, human)
P50HL-15061-07 0007 Response of lung to injury - Human factors for phagocytosis in normal and diseased lungs
** P50HL-15061-07 0009 Response of lung to injury - Alveolar macrophages (human, rabbits)
** P50HL-15061-07 0012 Response of lung to injury - Hyperbaric oxygen, carbon monoxide, and ozone or peroxide toxicity (rats)
** P60HL-15160-07 0015 Center for sickle cell disease - Lung function abnormalities in sickle cell hemoglobinopathies (human)
M P01HL-15832-06 Chemical-structural predispositions to lung injury
** P01HL-15832-06 0001 Chemical-structural predispositions to lung injury - Chemical composition of lung connective tissue proteins (human, animals)
** P01HL-15832-06 0004 Chemical-structural predispositions to lung injury - Proteolytic activity leucocytes in patients with obstructive lung disease
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
** P01HL-15832-06 0008 Chemical-structural predispositions to lung injury - Interstitial fibrosis--Connective tissue components in normal and diseased lungs
P01HL-15832-06 0009 Chemical-structural predispositions to lung injury - Immunology--Enzyme degradation products of human lung elastin and microfibril
** P01HL-15832-06 0010 Chemical-structural predispositions to lung injury - Kinin generating systems in pulmonary disease (human, animals)
P01HL-15832-06 0011 Chemical-structural predispositions to lung injury - Interaction of cell receptors with vasoactive agents in pulmonary vascular bed
P01HL-15832-06 9001 Chemical-structural predispositions to lung injury - Tissue culture studies of lung cell function--Core facility
M P01HL-16748-05 Cellular and immunological basis of pulmonary diseases
** P01HL-16748-05 0001 Cellular and immunological basis of pulmonary diseases - Mechanisms of alveolar macrophage function and dysfunction (human, rabbits)
** P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
M P01HL-16769-05 Pathobiologic and host defense reactions in the lung
M P01HL-16878-05 Control of ventilation in health and disease
P01HL-16878-05 0001 Control of ventilation in health and disease - Ability of asthmatics to detect added resistive and elastic loads
** R01HL-16920-02 Proteases in normal and immunologically injured lung (guinea pigs, rabbits)
** P60HL-17292-04 0003 Vermont Lung Center - Subclinical pulmonary disease in a rural environment (human)
R01HL-17314-04 Effects of anesthesia and loading on respiration (human, cats)
P01HL-17382-05 0003 Chemical mediators of acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
M P01HL-17731-04 Physiological basis of pulmonary disease
** P01HL-17731-04 0001 Physiological basis of pulmonary disease - Mechanisms of blood flow and ventilation (dogs)
P01HL-17731-04 0007 Physiological basis of pulmonary disease - Theoretical gas exchange

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
R01HL-17921-04 Peroxy radicals to prostaglandins in vessels and lung
** R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
** R01HL-18918-03 Characterization of lung elastins (rat, rabbit, chicken, Rhesus)
** P50HL-19153-02 0006 SCOR-Pulmonary edemas--Etiology, pathogenesis - Pulmonary vascular abnormalities in human lung diseases
** P50HL-19171-02 0003 Pulmonary SCOR--Lung injury by childhood infections - Natural history, host defense defects--Children with chronic pulmonary disease
** P50HL-19185-02 0011 Pulmonary SCOR--Neonatal respiratory distress syndromes - Complications and sequelae of neonatal respiratory distress (human)
** R23HL-19619-01 Sem and x ray analysis in human pulmonary pathology
R01HL-19684-03 Histotypic lung culture in circumfusion systems (mice)
** R01HL-19685-03 Pathogenesis of inflammation of the lung (guinea pigs)
** P01HL-19717-02 0005 Response of the lung to injury - Studies on proteolysis and lung disease (human, animals)
P01HL-19717-02 0007 Response of the lung to injury - Cellular level studies of prostaglandin-like molecules (cattle)
** R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
M P01HL-19737-02 Cellular and molecular aspects of respiratory physiology
P01HL-19737-02 0001 Cellular and molecular aspects of respiratory physiology - Fatty acid metabolism in type II alveolar cells (rats)
P01HL-19737-02 0002 Cellular and molecular aspects of respiratory physiology - Airway smooth muscle in health and disease (human, animals)
P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
** R01HL-19760-01 Cellular immune responses of the lung (mice, guinea pigs)
** R01HL-19873-03 Pulmonary responses to inhaled antigen (rabbits, guinea pigs)
** R01HL-20344-02 Regulation of protein turnover in lung tissue (rats)
** R01HL-20347-02 Bolus-response measurement of lung function (human)
R01HL-20566-02 Lactate metabolism in the lung (rats)
** R01HL-20764-02 Elastin and calcification in pulmonary and vascular disease (human, mammals)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-20787-02 Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human)
R01HL-20847-02 Respiratory neurochemical control (human, goats)
R01HL-21105-02 Organ specific drugs--Cardiovascular and renal effects (dogs)
R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)
** R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
** R01HL-22022-01 Respiratory muscle dysfunction in respiratory failure (human)
** R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)
** R01HL-22257-01 Leukokinesis enhancing factor and lung infections (human, rats)
R01HL-22371-01 Vascular changes in lung exposed to radiation
** R01HL-22976-01 Nonuniform ventilation and diffusing capacity (human)
** N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)

RESPIRATORY DISORDERS, PNEUMOCONIOSIS

P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
P50HL-14212-07 0007 Correlated studies of pulmonary fibrosis - Protein metabolism in alveolar macrophages (rabbits, guinea pigs, human)
P50HL-14212-07 0011 Correlated studies of pulmonary fibrosis - Pathology core (human, animal)
P50HL-14212-07 0012 Correlated studies of pulmonary fibrosis - Inorganic particulates in tobacco, smoke and lungs of cigarette smokers (human)
P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
M P50HL-15092-07 Immune and fibrotic response to occupational environments
** P50HL-15092-07 0001 Immune and fibrotic response to occupational environments - X ray diffraction study -Dust exposure in asbestos cement products manufacturing
** P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
** P50HL-15092-07 0006 Immune and fibrotic response to occupational environments - Immunologic studies in silicosis (human, rabbits, hamsters, guinea pigs)
** P50HL-15092-07 0007 Immune and fibrotic response to occupational environments - Asbestosis--Cellular immunity, structure and mineral localization (human)
** P50HL-15092-07 0008 Immune and fibrotic response to occupational environments - Animal models of asbestosis (hamsters)
P50HL-15092-07 0013 Immune and fibrotic response to occupational environments - Epidemiology core resource
P50HL-15092-07 0014 Immune and fibrotic response to occupational environments - Clinical immunology core resource
** P60HL-17292-04 0005 Vermont Lung Center - Mineral pneumoconioses--Pathogenesis and pathology (human)
R01HL-17543-03 0001 Magnetic tracers for diagnosis of lung disease - Chronic, interstitial lung disease (human, rabbits)
** R01HL 17543-03 0002 Magnetic tracers for diagnosis of lung disease - Magnetite as an index of asbestos exposure (human)
R23HL-19584-01 Alveolar macrophage responses to toxic particle exposure (guinea pigs, human)
** R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
M P01HL-19717-02 Response of the lung to injury
P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic
** P01HL-19717-02 0039 Response of the lung to injury - Lung scanning in alveolitis and asbestolic interstitial pneumonia (human, animal)
** P01HL-19717-02 0043 Response of the lung to injury - Asbestosis as a model of usual interstitial pneumonia (human)
** P01HL-19717-02 0044 Response of the lung to injury - Lung sound analysis (human)
** P01HL-19717-02 0045 Response of the lung to injury - Ultrasound studies (human, hamsters)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
** R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)

RESPIRATORY DISORDERS, PNEUMONIA

R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
** P60HL-17292-04 0009 Vermont Lung Center - Controlled clinical trials on a clinical core unit (human)
** P60HL-17292-04 0030 Vermont Lung Center - Hospital treatment of pneumonia
P01HL-17417-05 0001 Experimental lung transplantation - Mechanisms and mediators of lung allograft rejection (dogs, mice)
P50HL-19171-02 0003 Pulmonary SCOR--Lung injury by childhood infections - Natural history, host defense defects--Children with chronic pulmonary disease
R23HL-19619-01 Sem and x ray analysis in human pulmonary pathology
R01HL-19760-01 Cellular immune responses of the lung (mice, guinea pigs)
R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
R01HL-19836-03 Kinin inhibitors detected by use of receptors (cattle)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
** R01HL-20220-03 Anaphylatoxins as inflammatory and chemotactic agents (guinea pig, rabbit, human)
R01HL-20314-02 Host defense against S pneumoniae in sickle cell disease (human)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
P01HL-20994-02 0005 Dynamics of neutrophil elastase in the lung - Protease inhibitors in pulmonary inflammation and emphysema (rabbits)
P01HL-20994-02 0008 Dynamics of neutrophil elastase in the lung - Structure-function correlation in experimental emphysema (human, dogs)
R01HL-22257-01 Leukokinesis enhancing factor and lung infections (human, rats)

RESPIRATORY DISORDERS, PNEUMONIA ASPIRATION

R01HL-16916-04 0011 The role of albumins in lung water accumulation - Whole body distribution and exchange of albumin (rabbits, human, monkeys)

RESPIRATORY DISORDERS, PNEUMONIA BACTERIAL

SEE ALSO BACTERIA, MYCOPLASMATALES, MYCOPLASMA PNEUMONIAE*
SEE ALSO BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS PNEUMONIAE*
P01HL-14985-07 0011 Adaptation to hypoxia Prostaglandins in the control of the pulmonary circulation (animals)
M P01HL-16769-05 Pathobiologic and host defense reactions in the lung
** P01HL-16769-05 0004 Pathobiologic and host defense reactions in the lung - Pathogenesis of Pseudomonas and Serratia pneumonias (rabbits)
** P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
P01HL-16769-05 0009 Pathobiologic and host defense reactions in the lung - Electron microscopy and tissue culture core laboratory
R01HL-20002-03 Pulmonary complications of viral infections (children)
** R01HL-20170-02 Pulmonary infection in splenectomized animals (mice)
** R01HL-20963-01 Experimental lung abscess (rabbits)
P60HL-20985-01 0002 Northern California sickle cell center - Immunization with polyvalent pneumococcal polysaccharide vaccine (human)
P01HL-20994-02 0003 Dynamics of neutrophil elastase in the lung - Neutrophil elastase flux in models of lung disease (dogs)
** R23HL-21997-01 Pulmonary immunopathology in the compromised host (guinea pigs)
R23HL-22823-01 Phagocytic and immune defense mechanisms of the lung (mice)
P60HL-23282-01 0004 Comprehensive hospital/community sickle cell center - Bacterial, viral and mycoplasmal infections and sickle cell disease complications

RESPIRATORY DISORDERS, PNEUMONIA MYCOPLASMAL (PPLO)

SEE ALSO BACTERIA, MYCOPLASMATALES, MYCOPLASMA PNEUMONIAE*
P50HL-19171-02 0007 Pulmonary SCOR--Lung injury by childhood infections - Immunologic studies in models of lower respiratory tract infection (rodents)
** R01HL-19741-03 Murine CRO--A model of chronic pulmonary inflammation (mice, rats)
** R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
P60HL-23282-01 0004 Comprehensive hospital/community sickle cell center - Bacterial, viral and mycoplasmal infections and sickle cell disease complications

RESPIRATORY DISORDERS, PNEUMONIA PNEUMOCYSTIS

P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo--Capillary membrane in normal pulmonary hypertensive lung
P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic
** P01HL-19717-02 0039 Response of the lung to injury - Lung scanning in alveolitis and asbestolic interstitial pneumonia (human, animal)
** P01HL-19717-02 0040 Response of the lung to injury - Immunosuppressive drugs in usual interstitial pneumonia (human)
** P01HL-19717-02 0041 Response of the lung to injury - Cellular immunity in interstitial lung disease (human)

RESPIRATORY DISORDERS, PNEUMONIA VIRAL

P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLD
P50HL-14212-07 0004 Correlated studies of pulmonary fibrosis - Collagen metabolism in lung tissue and lung cells (human, animal)
R01HL-16916-04 0001 The role of albumins in lung water accumulation - Capillary permeability (dogs, human)
** R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)
P60HL-23282-01 0004 Comprehensive hospital/community sickle cell center - Bacterial, viral and mycoplasmal infections and sickle cell disease complications

RESPIRATORY DISORDERS, PNEUMONITIS ALLERGIC INTERSTITIAL

P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
P50HL-14212-07 0014 Correlated studies of pulmonary fibrosis - Pulmonary lavage cells, secretions in diffuse intersititial lung disease (human)
** R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
P50HL-15092-07 0011 Immune and fibrotic response to occupational environments - Respiratory and immunologic responses in coffee plant workers
M P50HL-15389-07 Pulmonary SCOR--Hypersensitivity pneumonitis

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P50HL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
** P50HL-15389-07 0008 Pulmonary SCOR--Hypersensitivity pneumonitis - Milwaukee patient study--Hypersensitivity pneumonitis
** P50HL-15389-07 0009 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies--Pulmonary mycotoxicosis
** P50HL-15389-07 0010 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical study--Pulmonary lesions due to non-invasive aspergillosis
** P50HL-15389-07 0011 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Hypersensitivity pneumonitis in rabbits
** P50HL-15389-07 0012 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Immunologic lung disease in guinea pigs
** P50HL-15389-07 0013 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Pulmonary mycotoxicosis (rabbit, guinea pig)
** P50HL-15389-07 0014 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of pigeon antigens
** P50HL-15389-07 0015 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of thermophilic Actinomycete antigens
** P50HL-15389-07 0016 Pulmonary SCOR--Hypersensitivity pneumonitis - Pulmonary physiology core (human)
** P50HL-15389-07 0017 Pulmonary SCOR--Hypersensitivity pneumonitis - Immunology core (human)
** P50HL-15389-07 0018 Pulmonary SCOR--Hypersensitivity pneumonitis - Pathology core (human, animal)
** P50HL-15389-07 0019 Pulmonary SCOR--Hypersensitivity pneumonitis - Microbiology core (human, animal)
P50HL-15389-07 0020 Pulmonary SCOR--Hypersensitivity pneumonitis - Computer applications and data analysis core
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
** P01HL-15832-06 0008 Chemical-structural predispositions to lung injury - Interstitial fibrosis--Connective tissue components in normal and diseased lungs
P01HL-15832-06 0010 Chemical-structural predispositions to lung injury - Kinin generating systems in pulmonary disease (human, animals)
P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
** R01HL-17543-03 0001 Magnetic tracers for diagnosis of lung disease - Chronic, interstitial lung disease (human, rabbits)
R01HL-19685-03 Pathogenesis of inflammation of the lung (guinea pigs)
R01HL-19731-03 Collagen in interstitial fibrosis of lung (human)
** R01HL-19819-03 Mitogen induced interstitial pneumonitis (rabbits)
R01HL-19873-03 Pulmonary responses to inhaled antigen (rabbits, guinea pigs)
** R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
** R23HL-21918-01 Hypersensitivity pneumonitis in guinea pigs
R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)
R01HL-22302-01 Immune responses in the human lung (also rabbits, monkeys)
** R01HL-22676-01 Pathogenesis in experimental interstitial pneumonitis (rabbits)
** N01HR-62935-02 Histocompatibility antigens--Evolution of respiratory hypersensitivity (human)

RESPIRATORY DISORDERS, PNEUMONITIS ALLERGIC INTERSTITIAL, FARMER'S LUNG

P50HL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
P50HL-15389-07 0009 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies--Pulmonary mycotoxicosis
P50HL-15389-07 0015 Pulmonary SCOR--Hypersensitivity pneumonitis - Fractionation and characterization of thermophilic Actinomycete antigens
R01HL-20815-02 Validation of indirect tests of small airways function (human, dogs, ponies)

RESPIRATORY DISORDERS, PULMONARY ALVEOLAR PROTEINOSIS

R01HL-13885-08 0005 Cystic fibrosis and pulmonary disease - Evaluation of lobar pulmonary lavage (human)
** R01HL-19628-03 Mechanisms of pulmonary alveolar proteinoses (human, rats)
** R01HL-20547-02 Glycoproteins in pulmonary alveolar proteinosis (human)
R23HL-21251-01 Metabolism of neutral lipids in the pulmonary alveolus (rabbits)
** R01HL-21480-01 Structure, source and functions of alveolar glycoproteins (human, rabbits)

RESPIRATORY DISORDERS, PULMONARY EDEMA

P01HL-06285-18 0145 Cardiovascular-respiratory physiology and biochemistry - Pulmonary, pleural and systemic microcirculation (animals)
** P01HL-06285-18 0146 Cardiovascular-respiratory physiology and biochemistry - Pathogenesis and detection of hypoxic pulmonary edema (human, animals)
P01HL-07896-15 0009 Environmental biomedical research program - Decompression sickness and computation of safe diving tables (human, animals)
** P01HL-07896-15 0045 Environmental biomedical research program - Extravascular lung water dynamics in pulmonary oxygen toxicity (human, baboons)
** P01HL-08805-15 0025 Regulation of ventilation and pulmonary circulation - Pulmonary edema (rabbits)
R01HL-10009-13 Regional lung function in man
** P01HL-10342-13 0006 The integrated function of respiration and circulation - Lung inflation effects on pulmonary vasculature and interstitial space (dogs)
** P01HL-10342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
P01HL-11678-11 0017 Cardiovascular dynamics and their control - Overall control of circulation--Mathematical analyses
** P01HL-11678-11 0020 Cardiovascular dynamics and their control - Circulatory and pulmonary fluid dynamics during pulmonary edema
** P01HL-11678-11 0036 Cardiovascular dynamics and their control - Pulmonary capillary dynamics and edema (dogs)
** P01HL-11678-11 0058 Cardiovascular dynamics and their control - Overall control of the circulation--Computer analysis
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
** R01HL-12879-09 0010 Pulmonary transport and metabolism in vivo - Lung morphometry in control and edematous lungs (dogs)
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
** R01HL-13596-07 Clearance of plasma proteins from alveoli
R01HL-13623-08 Atrial receptors (dogs)
** R01HL-13645-11 Tryptophan-induced pulmonary emphysema (cattle, goats, rabbits)
** P01HL-13738-08 0001 Cardiac assist devices and artificial hearts - Cardiac assist devices (human, sheep)
R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
P50HL-14187-07 0012 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
** P50HL-14214-07 0025 Newborn lung center for hyaline membrane disease - Pulmonary vascular permeability and lung water--Hyaline membrane disease (sheep)
** P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in RDS (sheep, cat)
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
P01HL-14388-07 0221 Regulation of the circulation in pathological states - Experimental myocardial infarction (dogs)
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
** P01HL-14985-07 0014 Adaptation to hypoxia - High altitude pulmonary edema (human, rats, dogs)
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
** R01HL-16784-03 Lung tissue and water volume (human, dogs)
M R01HL-16916-04 The role of albumins in lung water accumulation
R01HL-16916-04 0001 The role of albumins in lung water accumulation - Capillary permeability (dogs, human)
R01HL-16916-04 0002 The role of albumins in lung water accumulation - Lung water balance--Forces, models and albumin concentrations (rabbits, dogs)
R01HL-16916-04 0011 The role of albumins in lung water accumulation - Whole body distribution and exchange of albumin (rabbits, human, monkeys)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
P01HL-17417-05 0001 Experimental lung transplantation - Mechanisms and mediators of lung allograft rejection (dogs, mice)
P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
** R01HL-17800-04 Pulmonary reflexes--Central pathways (cats, dogs, rabbits)
** R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
** R01HL-19089-03 Diastolic properties of the left ventricle (human, dogs)
M P50HL-19153-02 SCOR--Pulmonary edemas--Eitology, pathogenesis
** P50HL-19153-02 0001 SCOR--Pulmonary edemas--Eitology, pathogenesis - Prostaglandins and the lung circulation (sheep)
** P50HL-19153-02 0002 SCOR--Pulmonary edemas--Eitology, pathogenesis - Lung fluid dynamics--Classical mediators and their inhibitors (sheep)
** P50HL-19153-02 0003 SCOR--Pulmonary edemas--Eitology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
P50HL-19153-02 0004 SCOR--Pulmonary edemas--Eitology, pathogenesis - Physical mechanisms in lung transvascular transport--Math models (sheep)
** P50HL-19153-02 0006 SCOR--Pulmonary edemas--Eitology, pathogenesis - Pulmonary vascular abnormalities in human lung diseases
** P50HL-19153-02 0007 SCOR--Pulmonary edemas--Eitology, pathogenesis - Core--Experimental laboratories and support facilities
P50HL-19153-02 0008 SCOR--Pulmonary edemas--Eitology, pathogenesis - Core--Biomedical engineering
M P50HL-19155-02 Pathophysiology of pulmonary edema
** P50HL-19155-02 0001 Pathophysiology of pulmonary edema - Pulmonary edema study unit (human, dog)
** P50HL-19155-02 0002 Pathophysiology of pulmonary edema - Non-invasive measurement of protein turnover in human lung (also sheep)
P50HL-19155-02 0004 Pathophysiology of pulmonary edema - Physical and chemical effects of multiple pulmonary emboli (sheep)
** P50HL-19155-02 0005 Pathophysiology of pulmonary edema - Protein exchange sites and lymph protein concentration in lung (mice, sheep)
P50HL-19155-02 0008 Pathophysiology of pulmonary edema - Core microscopy laboratory
P50HL-19170-02 0004 Harvard pulmonary SCOR--Chronic diseases of the airways - Exercise, increased ventilation effect on airway exposure and responses (rodent)
** R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)
** R01HL-19678-01 Quantification of intrathoracic fluid by impedance (human, dogs)
R01HL-20110-02 Microwave methods of lung water measurement (dogs, phantom models)
R01HL-20548-02 Innervation of the lung (rats, monkeys)
** R01HL-20612-02 Chronic animal model of pulmonary vascular injury (dogs)
** R01HL-20652-01 Sites of leakage in pulmonary edema (dogs)
** R01HL-20690-02 Pulmonary hemodynamics in lung edema during PEEP (dogs)
** R01HL-20773-02 Surfactant, pulmonary edema, and lung mechanics (rabbits)
** R01HL-20878-02 Cellular aspects of lung injury (rats, rabbits)
** R23HL-21050-02 Mechanisms of re-expansion pulmonary edema (rabbits)
** R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
R23HL-21199-02 Sound transmission in lung (dog)
** R01HL-21452-02 Pulmonary capillary filtration in myocardial ishemia (dogs)
** R01HL-21518-01 Improvement in regional ventilation-perfusion resolution (human)
** R23HL-21943-01 Capillary morphology in pulmonary edema (dogs)
** R01HL-21948-01 Capillary, tissue volume and lymph flow in lung edema (sheep, cattle)
** R01HL-22463-02 Pinocytotic vesicles and pulmonary edema (rats)
** R01HL-22549-02 Transport across alveolar capillary membrane (dogs)
** R01HL-22911-01 Mechanism of clearance of lung edema fluid (dogs)
** R23HL-22933-01 Transvascular fluid and protein exchange in the lung (sheep)
** R01HL-23015-01 Mechanisms of hypo-oncotic pulmonary edema (human, dogs)

RESPIRATORY DISORDERS, PULMONARY FIBROSIS AND GRANULOMAS

SEE ALSO METALS POISONING, BERYLLIOSIS
SEE ALSO RESPIRATORY DISORDERS, PNEUMOCONIOSIS
SEE ALSO RESPIRATORY DISORDERS, PNEUMONITIS ALLERGIC INTERSTITIAL
R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-14153-07 0004 Johns Hopkins Lung Center - Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)
M P50HL-14212-07 Correlated studies of pulmonary fibrosis
** P50HL-14212-07 0001 Correlated studies of pulmonary fibrosis - Clinical studies core
** P50HL-14212-07 0004 Correlated studies of pulmonary fibrosis - Collagen metabolism in lung tissue and lung cells (human, animal)
** P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
** P50HL-14212-07 0007 Correlated studies of pulmonary fibrosis - Protein metabolism in alveolar macrophages (rabbits, guinea pigs, human)
** P50HL-14212-07 0011 Correlated studies of pulmonary fibrosis - Pathology core (human, animal)
** P50HL-14212-07 0012 Correlated studies of pulmonary fibrosis - Inorganic particulates in tobacco, smoke and lungs of cigarette smokers (human)
** P50HL-14212-07 0013 Correlated studies of pulmonary fibrosis - Mechanism of beryllium pathogenicity in the lung (human, rabbit, guinea pig)
** P50HL-14212-07 0014 Correlated studies of pulmonary fibrosis - Pulmonary lavage cells, secretions in diffuse intersititial lung disease (human)
** P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
** P50HL-14212-07 0016 Correlated studies of pulmonary fibrosis - Role of pulmonary alveolar macrophages in fibrosis (human, rabbit)
** P50HL-14212-07 0017 Correlated studies of pulmonary fibrosis - Biometry core
R01HL-14456-07 Lung metabolism--Enzymes in the pulmonary circulation (human, animals)
R01HL-14663-07 Pulmonary oxygen toxicity in newborn lung (human, mice)
P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
P50HL-15061-07 0004 Response of lung to injury - Biochemical abnormalities in connective tissues (rats)
P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
P50HL-15092-07 0008 Immune and fibrotic response to occupational environments - Animal models of asbestosis (hamsters)
P50HL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
P01HL-15832-06 0005 Chemical-structural predispositions to lung injury - Pulmonary structure and stress-strain relationships (rats)
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
P01HL-16118-06 0003 Study of emphysema - Degradation of collagen and elastin (human, hamsters, mice)
P01HL-16118-06 0004 Study of emphysema - Metabolic activity of pulmonary connective tissue (human, hamsters)
R01HL-16784-03 Lung tissue and water volume (human, dogs)
P60HL-17292-04 0003 Vermont Lung Center - Subclinical pulmonary disease in a rural environment (human)
R01HL-17543-03 0004 Magnetic tracers for diagnosis of lung disease - Magnetite retention, distribution, relaxation rate, viscosity (rabbits)
R01HL-17551-04 Biosynthesis and metabolism of procollagen (human, monkeys, mice)
P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
M P01HL-17813-04 Lung disease and the oxygenation of blood and tissue
** P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)
** P01HL-17813-04 0002 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Ultrastructural abnormalities (human)
P01HL-17813-04 0006 Lung disease and the oxygenation of blood and tissue - Assessment of respiratory muscle contractile force (human, dogs)
** R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
** R01HL-19018-03 Etiologic factors in cryptogenic fibrosing alveolitis (human)
R01HL-19225-02 0004 Types and mechanims of pulmonary hypertension - Structural changes in human pulmonary circulation (human, animals)
R23HL-19584-01 Alveolar macrophage responses to toxic particle exposure (guinea pigs, human)
** R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
** R01HL-19668-03 Biochemistry of lung connective tissue (rats)
R01HL-19685-03 Pathogenesis of inflammation of the lung (guinea pigs)
** R01HL-19711-03 Lymphokines in pulmonary granulomas (guinea pigs)
M P01HL-19717-02 Response of the lung to injury
P01HL-19717-02 0002 Response of the lung to injury - Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)
P01HL-19717-02 0006 Response of the lung to injury - Glycosaminoglycans and proteoglycans of the lung (human, rats, hamsters)
P01HL-19717-02 0007 Response of the lung to injury - Cellular level studies of prostaglandin-like molecules (cattle)
** P01HL-19717-02 0008 Response of the lung to injury - Experimental models of lung disease
P01HL-19717-02 0013 Response of the lung to injury - Handling of biologically active substances by the diseased lung (guinea pigs)
** P01HL-19717-02 0019 Response of the lung to injury - Animal model of fibrosing alveolitis (hamsters, guinea pigs, rabbits)
** P01HL-19717-02 0020 Response of the lung to injury - Recording of lung sounds in animal models of disease (animals)
** P01HL-19717-02 0021 Response of the lung to injury - Gallium lung scans in fibrosing alveolitis (hamsters)
P01HL-19717-02 0037 Response of the lung to injury - Catecholamines, prostaglandins and nucleotides in pulmonary function (animals)
** P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic
P01HL-19717-02 0041 Response of the lung to injury - Cellular immunity in interstitial lung disease (human)
P01HL-19717-02 0044 Response of the lung to injury - Lung sound analysis (human)
P01HL-19717-02 0046 Response of the lung to injury - Bioengineering section
** R01HL-19720-03 Evaluation of anti-fibrotic agents in pulmonary fibrosis (rats)
** R01HL-19731-03 Collagen in interstitial fibrosis of lung (human)
** R01HL-19732-03 Lymphokines in pulmonary granulomatous inflammation (mice)
R01HL-19733-03 Absorption of antigen through inflamed lungs (rabbits)
R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)
** R01HL-19774-03 Pathogenesis of chronic lung disease (rats, mice, bacteria)
** R01HL-19819-03 Mitogen induced interstitial pneumonitis (rabbits)
** R01HL-20095-03 Role of lymphokines and monocytes in lung fibrosis (human, guinea pigs, rats)
** R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
R01HL-20815-02 Validation of indirect tests of small airways function (human, dogs, ponies)
R23HL-21134-02 Immune function and fibrogenesis in silicosis (guinea pigs)
R23HL-21199-02 Sound transmission in lung (dog)
** R23HL-21504-02 Collagen synthesis in pulmonary fibrosis cells (human)
** R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)
R01HL-22302-01 Immune responses in the human lung (also rabbits, monkeys)
R01HL-22371-01 Vascular changes in lung exposed to radiation
** R01HL-22676-01 Pathogenesis in experimental interstitial pneumonitis (rabbits)

RESPIRATORY DISORDERS, RESPIRATORY AIRFLOW DISORDERS

SEE ALSO CONGENITAL ABNORMALITIES, RESPIRATORY DISTRESS SYNDROME
SEE ALSO HYPERSENSITIVITY, RESPIRATORY HYPERSENSITIVITY, ASTHMA
SEE ALSO RESPIRATORY DISORDERS, BRONCHITIS CHRONIC AND EMPHYSEMA
SEE ALSO RESPIRATORY DISORDERS, BRONCHOSPASM
SEE ALSO RESPIRATORY DISORDERS, DYSPNEA
SEE ALSO RESPIRATORY DISORDERS, PULMONARY EDEMA
R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)
** P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
P01HL-06285-18 0189 Cardiovascular-respiratory physiology and biochemistry - Mucociliary clearance (cats, dogs)
** P01HL-06285-18 0190 Cardiovascular-respiratory physiology and biochemistry - Maximal (airway) flow (human, dogs)
** R01HL-08789-11 Respiratory muscles and ventilatory control in man (and dogs)
P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
P01HL-08899-14 0015 Tolerance to respiratory gases in health and disease - Respiratory adaptations to increases in breathing (human)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
** R01HL-12564-09 Control of respiration and blood gases (human, dog)
R01HL-13885-08 0005 Cystic fibrosis and pulmonary disease - Evaluation of lobar pulmonary lavage (human)
M P50HL-14153-07 Johns Hopkins Lung Center - Chronic diseases of airways
P50HL-14153-07 0001 Johns Hopkins Lung Center - Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)
** P50HL-14153-07 0010 Johns Hopkins Lung Center--Chronic diseases of airways - Risk factors for airways obstruction in a rural community (human)
P50HL-14153-07 0012 Johns Hopkins Lung Center--Chronic diseases of airways - Aspirin intolerance in reversible lung disease (human)
** P50HL-14153-07 0016 Johns Hopkins Lung Center - Chronic diseases of airways - Airways defense mechanisms (dogs)
** P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
P60HL-15160-07 0015 Center for sickle cell disease - Lung function abnormalities in sickle cell hemoglobinopathies (human)
R01HL-16784-03 Lung tissue and water volume (human, dogs)
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
P01HL-17417-05 0005 Experimental lung transplantation - Lung transplantation in bilateral emphysema (dogs)
** R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
R01HL-18632-02 Epidemiologic study of chronic lung disease
P50HL-19155-02 0002 Pathophysiology of pulmonary edema - Non-invasive measurement of protein turnover in human lung (also sheep)
M P50HL-19156-02 Pulmonary SCOR--Chronic diseases of airways
P50HL-19156-02 0001 Pulmonary SCOR--Chronic diseases of airways - Irritability of airways induced by epithelial damage in healthy subjects (human)
** P50HL-19156-02 0002 Pulmonary SCOR--Chronic diseases of airways - Early detection of emphysema and chronic airway obstruction (human, dog)
P50HL-19156-02 0003 Pulmonary SCOR--Chronic diseases of airways - Powdered tantalum to study airway morphology and mucociliary clearance (human)
P50HL-19156-02 0006 Pulmonary SCOR--Chronic diseases of airways - Core microscopy laboratory
M P50HL-19170-02 Harvard pulmonary SCOR--Chronic diseases of the airways
** P50HL-19170-02 0001 Harvard pulmonary SCOR--Chronic diseases of the airways - Natural history, reversibility of pulmonary abnormalities in smokers (human)
P50HL-19170-02 0003 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanisms of bronchial reactivity to acute and chronic airway challenge (dog)
** P50HL-19170-02 0007 Harvard pulmonary SCOR--Chronic diseases of the airways - Therapy effect on airway obstruction in acute asthma (human)
** P50HL-19170-02 0008 Harvard pulmonary SCOR--Chronic diseases of the airways - Multiple-transient artificial coughing (dogs, human)
** P50HL-19170-02 0009 Harvard pulmonary SCOR--Chronic diseases of the airways - Ventilatory muscle training in chronic obstructive pulmonary disease (human)
M P01HL-19717-02 Response of the lung to injury
P01HL-19717-02 0028 Response of the lung to injury - Compensatory growth of the lung following pneumonectomy (rabbits)
P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic
** R01HL-19806-03 Chemotactic control of airway phagocytes (human, rabbits)
R01HL-19975-02 Laryngeal biomechanics in pulmonary therapy (primates)
R01HL-20024-03 Therapeutic aerosols--Characteristics and retention (human, dogs)
R01HL-20548-02 Innervation of the lung (rats, monkeys)
** R23HL-20576-01 Airway turbulence and pulmonary oxygen exchange
** R01HL-20815-02 Validation of indirect tests of small airways function (human, dogs, ponies)
** R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
** R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
R01HL-21126-02 Exercise-induced bronchospasm in children
** R01HL-22418-01 Neural control of cardio-respiratory function (cats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-22528-02 Early risk predictors for chronic pulmonary disease (human)
** R01HL-22723-01 The morphologic basis of airflow obstruction (human)
R01HL-22844-01 Phrenic nerve pacing--Noninvasive diaphragm analysis (human, dogs)
** R23HL-22920-01 Oynamic airway behavior (dogs)
** N01HR-32903-11 Pilot study to standardize the measurement of 'closing volume' (human)

RESPIRATORY DISORDERS, RESPIRATORY INSUFFICIENCY (GENERAL)

SEE ALSO RESPIRATORY FUNCTION, HYPOVENTILATION, RESPIRATORY CENTER OYSFUNCTION

** R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)
** R01HL-08696-15 0020 Orthotopic heart transplantation - Complete cardiopulmonary transplantation (dogs)
R01HL-08789-11 Respiratory muscles and ventilatory control in man (and dogs)
P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
** R01HL-09609-11 Lung volume and breathing mechanics during anesthesia (human)
** P01HL-10342-13 0014 The integrated function of respiration and circulation - Oxygen and carbon monxide transfer (human, dogs, sheep)
** P01HL-10342-13 0025 The integrated function of respiration and circulation - Pulmonary gas exchange and metabolism (human, dogs, sheep)
** R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
P01HL-13738-08 0003 Cardiac assist devices and artificial hearts - Pathophysiological effects of the artificial heart (calves)
P50HL-14187-07 0015 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pathophysiologic responses of pulmonary capillary bed (dog, human)
P50HL-14214-07 0027 Newborn lung center for hyaline membrane disease - Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep)
P50HL-14214-07 0028 Newborn lung center for hyaline membrane disease - Relationship of trace metals to respiratory failure (dog, sheep, human)
** P50HL-14214-07 0030 Newborn lung center for hyaline membrane disease - Effects of ductal patency--Impedance cardiography and echocardiography (human)
P50HL-14214-07 0032 Newborn lung center for hyaline membrane disease - Evoked electroencephalographic potential in infants with HMO (human)
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
** P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
P01HL-15194-07 0011 Pathophysiology of cardiopulmonary dysfunction - Oistribution of ventilation--Oxygen effects on intrapulmonary shunting (human)
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
** R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
R01HL-16582-05 Artificial lungs (dogs)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
** P60HL-17292-04 0009 Vermont Lung Center - Controlled clinical trials on a clinical core unit (human)
P60HL-17292-04 0029 Vermont Lung Center - Computer-assisted pre-operative evaluation (human)
** R01HL-17314-04 Effects of anesthesia and loading on respiration (human, cats)
** R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)
P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
M P01HL-17813-04 Lung disease and the oxygenation of blood and tissue
** P01HL-17813-04 0006 Lung disease and the oxygenation of blood and tissue - Assessment of respiratory muscle contractile force (human, dogs)
** R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
P50HL-19170-02 0005 Harvard pulmonary SCOR--Chronic diseases of the airways - Pulmonary toxicology of plastics intermediates and pyrolysis products (animal)
** R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)
** R01HL-19449-03 Gas exchange in acute respiratory failure
R01HL-19678-01 Quantification of intrathoracic fluid by impedance (human, dogs)
R01HL-19993-02 Optical detection of platelet aggregates (human, baboons)
R01HL-20354-02 Oirect determination of oxygen tension in the clinical environment (human, dogs)
** R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
** R01HL-20612-02 Chronic animal model of pulmonary vascular injury (dogs)
** R01HL-20690-02 Pulmonary hemodynamics in lung edema during PEEP (dogs)
** R01HL-20847-02 Respiratory neurochemical control (human, goats)
** R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
** R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
R23HL-21405-01 Respiratory muscles in regulation of infant breathing (human)
R01HL-21444-02 Pulmonary mechanics during postnatal development (human)
R01HL-21500-02 Performance of respiratory muscles under stress (dogs)
** R01HL-21518-01 Improvement in regional ventilation-perfusion resolution (human)
** R01HL-22022-01 Respiratory muscle dysfunction in respiratory failure (human)
** R01HL-22259-01 Modification of susceptibility to oxygen poisoning (rats)
** R13HL-22525-01 International symposium on the diaphragm (Virginia)
** R01HL-22552-02 Abnormal alveolar permeability and lung disease (sheep)
** N01HR-62942-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (humam)
** N01HR-62943-05 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62944-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62945-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62946-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62947-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)

RESPIRATORY DISORDERS, RESPIRATORY INSUFFICIENCY, SHOCK LUNG

** P01HL-10342-13 0025 The integrated function of respiration and circulation - Pulmonary gas exchange and metabolism (human, dogs, sheep)
** R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
R01HL-13596-07 Clearance of plasma proteins from alveoli
P50HL-14187-07 0012 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
P01HL-14985-07 0007 Adaptation to hypoxia - Control of pulmonary circulation, histamine and the sympathetics (animals)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
** P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swine)
** P01HL-17812-04 0007 Thrombosis and plasma proteins - Blood components--Response to endotoxin (dogs, baboons)
** R01HL-18762-03 Post-traumatic pulmonary insufficiency (dogs)
P50HL-19155-02 0004 Pathophysiology of pulmonary edema - Physical and chemical effects of multiple pulmonary emboli (sheep)
P50HL-19187-02 0009 Pediatric pulmonary SCOR--Hyaline membrane disease - Non-invasive measurement and monitoring of arterial oxygen tension (dogs, sheep)
** R01HL-19225-02 0004 Types and mechanims of pulmonary hypertension - Structural changes in human pulmonary circulation (human, animals)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)
** R01HL-19725-03 Complement induced pulmonary injury (dogs, rabbits, sheep)
** R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)
** R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)
R01HL-23981-01 Acute alveolar injury (dogs)

RESPIRATORY DISORDERS, RESPIRATORY SYSTEM TOXINS

P01HL-10342-13 0011 The integrated function of respiration and circulation - Control of respiration 1--Peripheral chemoreceptor studies (cats)
P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
** P50HL-14212-07 0013 Correlated studies of pulmonary fibrosis - Mechanism of beryllium pathogenicity in the lung (human, rabbit, guinea pig)
** P50HL-15061-07 0012 Response of lung to injury - Hyperbaric oxygen, carbon monoxide, and ozone or peroxide toxicity (rats)
** P50HL-15389-07 0009 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies--Pulmonary mycotoxicosis
** P50HL-15389-07 0013 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Pulmonary mycotoxicosis (rabbit, guinea pig)
** R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
P01HL-16118-06 0004 Study of emphysema - Metabolic activity of pulmonary connective tissue (human, hamsters)
** R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)
R01HL-18028-03 Absorption of nonvolatile compounds from the lung
** P50HL-19170-02 0005 Harvard pulmonary SCOR--Chronic diseases of the airways - Pulmonary toxicology of plastics intermediates and pyrolysis products (animal)
** R23HL-19584-01 Alveolar macrophage responses to toxic particle exposure (guinea pigs, human)
** R01HL-21008-02 Effect of pollutants on organotypic lung cultures (rats)
** R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)
** R01HL-22520-01 Pulmonary vascular response to group B Streptococci (human, mammals)

RESPIRATORY DISORDERS CHEMOTHERAPY

SEE ALSO RESPIRATORY ORUGS, BRONCHOCONSTRICTORS
SEE ALSO RESPIRATORY ORUGS, BRONCHOOILATORS
SEE ALSO RESPIRATORY ORUGS, EXPECTORANTS ANO MUCOLYTICS
SEE ALSO RESPIRATORY SYSTEM PHARMACOLOGY

P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
R01HL-14865-07 Biochemical studies on the pathogenesis of emphysema (human, rats)
P01HL-14985-07 0002 Adaptation to hypoxia - Oxygen transport in man at high altitude
P01HL-14985-07 0013 Adaptation to hypoxia - Chronic mountain sickness (men)
P01HL-14985-07 0014 Adaptation to hypoxia - High altitude pulmonary edema (human, rats, dogs)
P50HL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
R01HL-15526-05 Respiratory mechanics in children
R01HL-15580-06 Humoral control of pulmonary and systemic circulation (animals)
R01HL-16463-05 Localization of airways obstruction and responses
R01HL-16916-04 0001 The role of albumins in lung water accumulation - Capillary permeability (dogs, human)
** P60HL-17292-04 0009 Vermont Lung Center - Controlled clinical trials on a clinical core unit (human)
P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Oiffuse interstitial lung disease--Pathophysiology (human, dogs)
R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P50HL-19170-02 0007 Harvard pulmonary SCOR -Chronic diseases of the airways - Therapy effect on airway obstruction in acute asthma (human)
P50HL-19185-02 0007 Pulmonary SCOR -Neonatal respiratory distress syndromes - Sodium bicarbonate and albumin in resuscitation of preterm infants (human)
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
M P01HL-19717-02 Response of the lung to injury
P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic
P01HL-19717-02 0039 Response of the lung to injury - Lung scanning in alveolitis and asbestolic interstitial pneumonia (human, animal)
** P01HL-19717-02 0040 Response of the lung to injury - Immunosuppressive drugs in usual interstitial pneumonia (human)
** R01HL-19720-03 Evaluation of anti-fibrotic agents in pulmonary fibrosis (rats)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
** R01HL-20963-01 Experimental lung abscess (rabbits)
R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
R01HL-21444-02 Pulmonary mechanics during postnatal development (human)
R01HL-22021-01 Asthma in families-- Behavior analysis of family interaction pattern
R01HL-22026-01 Endogenous prostaglandins in asthma
R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)
** R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)
N01HR-62934-02 Evaluate continuing education in pulmonary medicine

RESPIRATORY DISORDERS CONGENITAL

SEE CONGENITAL ABNORMALITIES, RESPIRATORY (GENERAL)

RESPIRATORY DISORDERS DIAGNOSIS*

SEE ALSO RESPIRATORY VISUALIZATION*

** P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
** P01HL-06285-18 0146 Cardiovascular-respiratory physiology and biochemistry - Pathogenesis and detection of hypoxic pulmonary edema (human, animals)
** P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
** P01HL-06370-17 0017 Cardiopulmonary and renal pathology research center - Detection of pulmonary lesions--Radiologic pathologic correlation
P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
R01HL-09609-11 Lung volume and breathing mechanics during anesthesia (human)
** R01HL-10009-13 Regional lung function in man
P01HL-10342-13 0025 The integrated function of respiration and circulation - Pulmonary gas exchange and metabolism (human, dogs, sheep)
R01HL-12833-09 Genetic and environmental influences on lung disease (human)
** R01HL-13824-06 Defense mechanisms in pathogenesis of emphysema (human, dogs)
R01HL-13885-08 0007 Cystic fibrosis and pulmonary disease - Alveolar macrophage defense mechanism (human, rabbits)
R01HL-13885-08 0009 Cystic fibrosis and pulmonary disease - Respiratory mucus glycoproteins (human, rabbits)
** R01HL-13885-08 9001 Cystic fibrosis and pulmonary disease - Pulmonary function core facility (infants, children)
** R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
R01HL-13885-08 9003 Cystic fibrosis and pulmonary disease - Fiberoptic bronchoscopy core facility (human, dogs, sheep)
P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLD
** P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
** P50HL-14136-07 9002 Pulmonary SCOR--Airways obstructive diseases - Physiology core (human, animal)
P50HL-14136-07 9005 Pulmonary SCOR--Airways obstructive diseases - Clinical core
** P50HL-14136-07 9006 Pulmonary SCOR--Airways obstructive diseases - Pediatric lung function core
** P50HL-14153-07 0018 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary function core
P50HL-14212-07 0001 Correlated studies of pulmonary fibrosis - Clinical studies core
P50HL-14212-07 0004 Correlated studies of pulmonary fibrosis - Collagen metabolism in lung tissue and lung cells (human, animal)
** P50HL-14214-07 0012 Newborn lung center for hyaline membrane disease - Pulmonary status of children who had HMD as infants
P50HL-14214-07 0030 Newborn lung center for hyaline membrane disease-- Effects of ductal patency-Impedance cardiography and echocardiography (human)
** P01HL-14580-07 0005 Program project in respiratory mechanics - Development and evaluation of tests of pulmonary function (human)
P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
P01HL-15194-07 0024 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Airflow limitation in COLD (human)
** P50HL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
P50HL-15389-07 0008 Pulmonary SCOR--Hypersensitivity pneumonitis - Milwaukee patient study--Hypersensitivity pneumonitis
** P50HL-15389-07 0016 Pulmonary SCOR--Hypersensitivity pneumonitis - Pulmonary physiology core (human)
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
** R01HL-16325-03 Breathing patterns in man
P01HL-16748-05 0006 Cellular and immunological basis of pulmonary diseases - Sarcoidosis--Studies with bronchial lavage (human)
R01HL-16916-04 0001 The role of albumins in lung water accumulation - Capillary permeability (dogs, human)
R01HL-16916-04 0002 The role of albumins in lung water accumulation - Lung water balance--Forces, models and albumin concentrations (rabbits, dogs)
P60HL-17292-04 0005 Vermont Lung Center - Mineral pneumoconioses--Pathogenesis and pathology (human)
** P60HL-17292-04 0031 Vermont Lung Center - Regional respiratory computer network
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
M P01HL-17417-05 Experimental lung transplantation
** P01HL-17417-05 0003 Experimental lung transplantation - Methods for detecting lung allograft rejection (dogs)
M R01HL-17543-03 Magnetic tracers for diagnosis of lung disease
** R01HL-17543-03 0001 Magnetic tracers for diagnosis of lung disease - Chronic, interstitial lung disease (human, rabbits)
** R01HL-17543-03 0002 Magnetic tracers for diagnosis of lung disease - Magnetite as an index of asbestos exposure (human)
** R01HL-17543-03 0003 Magnetic tracers for diagnosis of lung disease - Occupationally accumulated magnetite for diagnosis of lung disease (human)
** R01HL-17543-03 0004 Magnetic tracers for diagnosis of lung disease - Magnetite retention, distribution, relaxation rate, viscosity (rabbits)
** R01HL-17826-04 Oxygen delivery to tissue (rat, dog)
** R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
R01HL-18632-02 Epidemiologic study of chronic lung disease
R01HL-18968-03 Computer technology for transaxial tomography
** R01HL-19018-03 Etiologic factors in cryptogenic fibrosing alveolitis (human)
** P50HL-19155-02 0001 Pathophysiology of pulmonary edema - Pulmonary edema study unit (human, dog)
P50HL-19170-02 0010 Harvard pulmonary SCOR--Chronic diseases of the airways - Computer Core
P50HL-19171-02 0003 Pulmonary SCOR--Lung injury by childhood infections - Natural history, host defense defects--Children with chronic pulmonary disease
P50HL-19171-02 0005 Pulmonary SCOR--Lung injury by childhood infections - Chronic respiratory disease of children in North Carolina
** P50HL-19185-02 0006 Pulmonary SCOR--Neonatal respiratory distress syndromes - Evaluation of risk factors in neonatal respiratory distress (human, sheep)
** P50HL-19190-02 0009 Pulmonary SCOR--Pathophysiology, management of IRDS - Developing non-invasive neonatal pulmonary monitoring systems (rabbit, human)
R01HL-19352-03 Respiratory heat and water loss in neonates
R01HL-19449-03 Gas exchange in acute respiratory failure
** R23HL-19619-01 Sem and x ray analysis in human pulmonary pathology
** R01HL-19678-01 Quantification of intrathoracic fluid by impedance (human, dogs)
M P01HL-19717-02 Response of the lung to injury
** P01HL-19717-02 0021 Response of the lung to injury - Gallium lung scans in fibrosing alveolitis (hamsters)
** P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic
** P01HL-19717-02 0039 Response of the lung to injury - Lung scanning in alveolitis and asbestolic interstitial pneumonia (human, animal)
P01HL-19717-02 0040 Response of the lung to injury - Immunosuppressive drugs in usual interstitial pneumonia (human)
P01HL-19717-02 0043 Response of the lung to injury - Asbestosis as a model of usual interstitial pneumonia (human)
** P01HL-19717-02 0044 Response of the lung to injury Lung sound analysis (human)
** P01HL-19717-02 0045 Response of the lung to injury Ultrasound studies (human, hamsters)
P01HL-19717-02 0046 Response of the lung to injury Bioengineering section
** R01HL-19725-03 Complement induced pulmonary injury (dogs, rabbits, sheep)
** R01HL-20110-02 Microwave methods of lung water measurement (dogs, phantom models)
R01HL-20607-02 Tissue analysis by mass spectrometer (dogs)
** R01HL-20815-02 Validation of indirect tests of small airways function (human, dogs, ponies)
** R01HL-20847-02 Respiratory neurochemical control (human, goats)
** R01HL-21156-02 Antitrypsin and other causes of chronic lung disease
** R23HL-21168-01 Hypoxemic respiratory failure-Physiologic evaluation (human, dogs)
** R23HL-21199-02 Sound transmission in lung (dog)
R01HL-21518-01 Improvement in regional ventilation-perfusion resolution (human)
** R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
** P01HL-21584-02 0006 Respiratory mechanics in normal and abnormal states - Respiratory mechanics in health and disease (human, pigs)
R01HL-22026-01 Endogenous prostaglandins in asthma
** R01HL-22302-01 Immune responses in the human lung (also rabbits, monkeys)
** R01HL-22723-01 The morphologic basis of airflow obstruction (human)
** R01HL-22844-01 Phrenic nerve pacing--Noninvasive diaphragm analysis (human, dogs)
** R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)
** R01HL-22976-01 Nonuniform ventilation and diffusing capacity (human)
R01HL-23981-01 Acute alveolar injury (dogs)
N01HR-62934-02 Evaluate continuing education in pulmonary medicine

RESPIRATORY DISORDERS DIAGNOSIS, PNEUMOGRAPH*

P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)

RESPIRATORY DISORDERS DIAGNOSIS, RESPIRATORY AIRFLOW MEASUREMENTS*

P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
** P01HL-06285-18 0190 Cardiovascular-respiratory physiology and biochemistry - Maximal (airway) flow (human, dogs)
R01HL-07575-15 Analysis of time-coherent cardiovascular data
P01HL-08899-14 0057 Tolerance to respiratory gases in health and disease - Studies of intermittent exposure in man
R01HL-10009-13 Regional lung function in man
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
P50HL-14136-07 9002 Pulmonary SCOR--Airways obstructive diseases - Physiology core (human, animal)
P01HL-14414-07 0003 Environmental influences on cardiorespiratory and cellular functions - Exposure to abnormal gaseous environments (human, dogs, rabbits)
** P01HL-14580-07 0002 Program project in respiratory mechanics - Airway aerodynamics (human, dogs)
P01HL-14580-07 0005 Program project in respiratory mechanics - Development and evaluation of tests of pulmonary function (human)
P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
** P01HL-15194-07 0024 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Airflow limitation in COLD (human)
** R01HL-15526-05 Respiratory mechanics in children
R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
** R01HL-16325-03 Breathing patterns in man
R01HL-16463-05 Localization of airways obstruction and responses
** R01HL-16784-03 Lung tissue and water volume (human, dogs)
M P01HL-16878-05 Control of ventilation in health and disease
** P01HL-16878-05 0001 Control of ventilation in health and disease - Ability of asthmatics to detect added resistive and elastic loads
P01HL-16878-05 0003 Control of ventilation in health and disease - Brain stem respiratory neurons in response mechanical/chemical loading (animal)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
M P01HL-17731-04 Physiological basis of pulmonary disease
** P01HL-17731-04 0002 Physiological basis of pulmonary disease - Biomechanics of the lung (frogs, cats)
R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
** R01HL-19118-03 Measurement of airways mechanics (human, dog)
** P50HL-19156-02 0002 Pulmonary SCOR--Chronic diseases of airways - Early detection of emphysema and chronic airway obstruction (human, dog)
R01HL-19225-02 0003 Types and mechanims of pulmonary hypertension - Cardiopulmonary function in pigs and rats
** R01HL-19352-03 Respiratory heat and water loss in neonates
P01HL-19717-02 0008 Response of the lung to injury - Experimental models of lung disease
** R01HL-19827-02 Role of the upper airways in the control of breathing (human, cats, dogs)
** R01HL-20347-02 Bolus-response measurement of lung function (human)
R23HL-20576-01 Airway turbulence and pulmonary oxygen exchange
** R01HL-20815-02 Validation of indirect tests of small airways function (human, dogs, ponies)
R01HL-20847-02 Respiratory neurochemical control (human, goats)
P01HL-20994-02 0008 Dynamics of neutrophil elastase in the lung - Structure-function correlation in experimental emphysema (human, dogs)
R01HL-21500-02 Performance of respiratory muscles under stress (dogs)
** P01HL-21584-02 0006 Respiratory mechanics in normal and abnormal states - Respiratory mechanics in health and disease (human, pigs)
R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)
R01HL-22723-01 The morphologic basis of airflow obstruction (human)
** R23HL-22920-01 Dynamic airway behavior (dogs)
** N01HR-32900-09 Pilot study to standardize the measurement of 'closing volume' (human)
** N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)
** N01HR-32903-11 Pilot study to standardize the measurement of 'closing volume' (human)
** N01HR-62901-04 Measure pulmonary function in infants and children (also dogs, rabbits)

RESPIRATORY DISORDERS DIAGNOSIS, RESPIRATORY AIRFLOW MEASUREMENTS, ULTRASONIC*

R01HL-19019-03 Accurate transcutaneous Doppler blood flow monitoring
** R01HL-22413-01 Enhanced detection of bubbles in Doppler flow signals (human)
** R01HL-22517-01 Engineering development of an ultrasonic ventilometer (human)
R01HL-22852-01 Diagnostic techniques in venous thromboembolism (human)

RESPIRATORY DISORDERS DIAGNOSIS, SPIROMETRY*

R01HL-13885-08 9001 Cystic fibrosis and pulmonary disease - Pulmonary function core facility (infants, children)
R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
** P50HL-14153-07 0010 Johns Hopkins Lung Center--Chronic diseases of airways - Risk factors for airways obstruction in a rural community (human)
P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
P60HL-17292-04 0031 Vermont Lung Center - Regional respiratory computer network
R01HL-22528-02 Early risk predictors for chronic pulmonary disease (human)

RESPIRATORY DISORDERS EPIDEMIOLOGY

R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
M P50HL-14136-07 Pulmonary SCOR--Airways obstructive diseases
P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLD
P50HL-14136-07 0005 Pulmonary SCOR--Airways obstructive diseases - Radiographic studies of airways obstructive disease (human)
** P50HL-14136-07 0009 Pulmonary SCOR--Airways obstructive diseases - Tuscon epidemiological study of airways obstructive disease (human)
** P50HL-14136-07 0016 Pulmonary SCOR--Airways obstructive diseases - Environmental factors in airways obstructive diseases (human)
** P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
** P50HL-14136-07 9001 Pulmonary SCOR--Airways obstructive diseases - Biometrics core
** P50HL-14136-07 9005 Pulmonary SCOR--Airways obstructive diseases - Clinical core
P50HL-14136-07 9006 Pulmonary SCOR--Airways obstructive diseases - Pediatric lung function core
** P50HL-14153-07 0001 Johns Hopkins Lung Center--Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)
** P50HL-14153-07 0010 Johns Hopkins Lung Center--Chronic diseases of airways - Risk factors for airways obstruction in a rural community (human)
** P50HL-14153-07 0011 Johns Hopkins Lung Center--Chronic diseases of airways - Allergy, airways reactivity and asthma in human ragweed allergy
P50HL-14212-07 0001 Correlated studies of pulmonary fibrosis - Clinical studies core
R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
M P50HL-15092-07 Immune and fibrotic response to occupational environments
P50HL-15092-07 0001 Immune and fibrotic response to occupational environments - X-ray diffraction study--Dust exposure in asbestos cement products manufacturing
** P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
P50HL-15092-07 0010 Immune and fibrotic response to occupational environments - Characterization of toluene diisocyanate in industrial environments
** P50HL-15092-07 0011 Immune and fibrotic response to occupational environments - Respiratory and immunologic responses in coffee plant workers
** P50HL-15092-07 0012 Immune and fibrotic response to occupational environments - Longitudinal evaluation of workers exposed to cotton dust
** P50HL-15092-07 0013 Immune and fibrotic response to occupational environments - Epidemiology core resource
** P50HL-15389-07 0001 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies of hypersensitivity pneumonitis
P50HL-15389-07 0009 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies--Pulmonary mycotoxicosis
P50HL-15389-07 0010 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical study--Pulmonary lesions due to non-invasive aspergillosis
** R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
** P60HL-17292-04 0003 Vermont Lung Center - Subclinical pulmonary disease in a rural environment (human)
** P60HL-17292-04 0005 Vermont Lung Center - Mineral pneumoconioses--Pathogenesis and pathology (human)
P60HL-17292-04 0023 Vermont Lung Center - Health information resources
** R01HL-18632-02 Epidemiologic study of chronic lung disease
R01HL-19018-03 Etiologic factors in cryptogenic fibrosing alveolitis (human)
P50HL-19170-02 0001 Harvard pulmonary SCOR--Chronic diseases of the airways - Natural history, reversibility of pulmonary abnormalities in smokers (human)
** P50HL-19171-02 0001 Pulmonary SCOR--Lung injury by childhood infections - Longitudinal study--Respiratory infections and lung growth in normal children
P50HL-19171-02 0004 Pulmonary SCOR--Lung injury by childhood infections - Long-term effects of respiratory infections in early childhood
** P50HL-19171-02 0005 Pulmonary SCOR--Lung injury by childhood infections - Chronic respiratory disease of children in North Carolina
P50HL-19171-02 0011 Pulmonary SCOR--Lung injury by childhood infections - Clinical support core
** P50HL-19187-02 0012 Pediatric pulmonary SCOR--Hyaline membrane disease - Resource requirements, economic consequence of HMO and recurrent apnea
R23HL-19619-01 Sem and x ray analysis in human pulmonary pathology
** P01HL-19717-02 0038 Response of the lung to injury - Interstitial lung disease--Clinical, pathologic and epidemiologic
** P01HL-19717-02 0043 Response of the lung to injury - Asbestosis as a model of usual interstitial pneumonia (human)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
** R01HL-21352-02 Community studies of obstructive lung disease (human)
** R01HL-22472-01 Smoking risk-factor reduction--Maintenance strategies (human)
** R01HL-22528-02 Early risk predictors for chronic pulmonary disease (human)
R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)
** N01HR-32900-09 Pilot study to standardize the measurement of 'closing volume' (human)
N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)
N01HR-32903-11 Pilot study to standardize the measurement of 'closing volume' (human)
N01HR-62935-02 Histocompatibility antigens--Evolution of respiratory hypersensitivity (human)

RESPIRATORY DISTRESS SYNDROME

SEE CONGENITAL ABNORMALITIES, RESPIRATORY DISTRESS SYNDROME

RESPIRATORY DRUGS, BRONCHOCONSTRICTORS

P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
** P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
P01HL-06664-17 0043 Cardiopulmonary function in remediable vascular disease - Alveolar hypoxic vasoconstriction--Control and clinical significance (dog, human)
P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo--Capillary membrane in normal pulmonary hypertensive lung
R01HL-10009-13 Regional lung function in man
P50HL-14153-07 0011 Johns Hopkins Lung Center--Chronic diseases of airways - Allergy, airways reactivity and asthma in human ragweed allergy
R01HL-16463-05 Localization of airways obstruction and responses
P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
P50HL-19156-02 0005 Pulmonary SCOR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-22026-01 Endogenous prostaglandins in asthma

RESPIRATORY DRUGS, BRONCHODILATORS

P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
P50HL-14187-07 0012 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
R01HL-15526-05 Respiratory mechanics in children
R01HL-16463-05 Localization of airways obstruction and responses
P01HL-16878-05 0001 Control of ventilation in health and disease - Ability of asthmatics to detect added resistive and elastic loads
P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-19062-03 Pharmacologic control of mast cell phosphodiesterase (human, rats)
R01HL-19722-03 Aerosol growth in the respiratory system (models)
R01HL-20024-03 Therapeutic aerosols--Characteristics and retention (human, dogs)
R01HL-20184-02 Desensitization of tracheal muscle to isoproterenol (rats, rabbits)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
R01HL-21444-02 Pulmonary mechanics during postnatal development (human)
R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)
R23HL-22920-01 Dynamic airway behavior (dogs)
R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)

RESPIRATORY DRUGS, EXPECTORANTS AND MUCOLYTICS

R01HL-13824-06 Defense mechanisms in pathogenesis of emphysema (human, dogs)
R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)

RESPIRATORY ENZYMES

SEE RESPIRATORY PROTEINS, RESPIRATORY ENZYMES

RESPIRATORY EXAMINATIONS

SEE RESPIRATORY DISORDERS DIAGNOSIS*

RESPIRATORY FAILURE (GENERAL)

SEE RESPIRATORY DISORDERS, RESPIRATORY INSUFFICIENCY (GENERAL)

RESPIRATORY FUNCTION

R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)
M P01HL-04664-18 Cardiovascular and lung dynamics
P01HL-04664-18 0005 Cardiovascular and lung dynamics - Applications of current research, equipment and techniques
P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
M P01HL-06285-18 Cardiovascular-respiratory physiology and biochemistry
** P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
M P01HL-06296-18 Cardiovascular and pulmonary adaptation to stress
P01HL-06664-17 0043 Cardiopulmonary function in remediable vascular disease - Alveolar hypoxic vasoconstriction--Control and clinical significance (dog, human)
** P01HL-07896-15 0021 Environmental biomedical research program - Liquid breathing and lung lavage (human)
P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
M P01HL-08805-15 Regulation of ventilation and pulmonary circulation
P01HL-08805-15 0042 Regulation of ventilation and pulmonary circulation - Electron microscope core research laboratory
** P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
** P01HL-08899-14 0006 Tolerance to respiratory gases in health and disease - Effects of extreme pressures of inert gases in macaque monkey
P01HL-08899-14 0018 Tolerance to respiratory gases in health and disease - Effects of respiratory gases at extreme pressures (human)
P01HL-08899-14 0036 Tolerance to respiratory gases in health and disease - Chemical and neurogenic components of respiratory simulation in exercise (human)
P01HL-08899-14 0044 Tolerance to respiratory gases in health and disease - Influence of high oxygen pressures on cognition and performance
P01HL-08899-14 0064 Tolerance to respiratory gases in health and disease - Narcotic effects of inert gases on functional systems (rats)
P01HL-10342-13 0026 The integrated function of respiration and circulation - Control of respiration--Characterization of the aortic body (cats)
** P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)
P01HL-11678-11 0017 Cardiovascular dynamics and their control - Overall control of circulation--Mathematical analyses
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
P01HL-13738-08 0002 Cardiac assist devices and artificial hearts - Total replacement with artificial heart (calves, sheep, ponies)
R01HL-13824-06 Defense mechanisms in pathogenesis of emphysema (human, dogs)
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLD
** P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
** P50HL-14136-07 9002 Pulmonary SCOR--Airways obstructive diseases - Physiology core (human, animal)
** P50HL-14136-07 9006 Pulmonary SCOR--Airways obstructive diseases - Pediatric lung function core
P50HL-14153-07 0012 Johns Hopkins Lung Center--Chronic diseases of airways - Aspirin intolerance in reversible lung disease (human)
** P50HL-14153-07 0018 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary function core
P50HL-14187-07 0005 Pulmonary SCOR-Chemical mediators in pulmonary vascular responses Pulmonary hypertension and cardiac function (dogs, human)
** P50HL-14214-07 0012 Newborn lung center for hyaline membrane disease Pulmonary status of children who had HMD as infants
** P50HL-14218-07 0014 Pulmonary SCOR-Newborn lung center - Longitudinal study of ROS--Monitoring fetal breathing movements (human)
** P50HL-14218-07 0015 Pulmonary SCOR--Newborn lung center - Long term follow-up of infants surviving ROS--Neurological outcome (human)
M P01HL-14414-07 Environmental influences on cardiorespiratory and cellular functions
P01HL-14414-07 0003 Environmental influences on cardiorespiratory and cellular functions - Exposure to abnormal gaseous environments (human, dogs, rabbits)
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
P01HL-14414-07 0015 Environmental influences on cardiorespiratory and cellular functions - Control of the cardiovascular system (dogs)
R01HL-14495-05 Solid and structural mechanics of lungs (mammals)
M P01HL-14580-07 Program project in respiratory mechanics
P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
** P01HL-14580-07 0002 Program project in respiratory mechanics - Airway aerodynamics (human, dogs)
** P01HL-14580-07 0005 Program project in respiratory mechanics - Development and evaluation of tests of pulmonary function (human)
** R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
** P50HL-15061-07 0013 Response of lung to injury - Exchange transfusion in infants with respiratory distress syndrome (human, sheep)
P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
P50HL-15092-07 0005 Immune and fibrotic response to occupational environments - Respiratory and immunologic evaluation of toluene diisocyanate exposure (human)
P50HL-15092-07 0011 Immune and fibrotic response to occupational environments - Respiratory and immunologic responses in coffee plant workers
P60HL-15169-05 0015 Support for center for sickle cell disease - Pathophysiology of acute pulmonary infiltrates in sickle cell disease (human)
P50HL-15389-07 0008 Pulmonary SCOR--Hypersensitivity pneumonitis - Milwaukee patient study--Hypersensitivity pneumonitis
** P50HL-15389-07 0016 Pulmonary SCOR--Hypersensitivity pneumonitis - Pulmonary physiology core (human)
R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
M P01HL-15832-06 Chemical-structural predispositions to lung injury
P01HL-15832-06 0002 Chemical-structural predispositions to lung injury - Connective tissue in lung in development and repair of injury (human, rats, mice)
** P01HL-15832-06 9001 Chemical-structural predispositions to lung injury - Tissue culture studies of lung cell function--Core facility
M P01HL-16137-05 Alveolar biology
** R01HL-16430-05 Neural control of respiration (cats)
R01HL-16651-05 Evaluation of steroid therapy in sarcoidosis (human)
R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)
** R01HL-17246-03 Oxygen uptake at one minute of exercise (human)
** P60HL-17292-04 0008 Vermont Lung Center - Respiratory physiology--Teaching, learning and auditing problem-solving skills
P60HL-17292-04 0029 Vermont Lung Center - Computer-assisted pre-operative evaluation (human)
R01HL-17352-03 Physiological regulation during chronic hyperthermia (sheep)
** P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
** P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
R01HL-17437-03 'Perfusion lung'--Role of traumatized leukocytes (dogs, human)
R01HL-17543-03 0004 Magnetic tracers for diagnosis of lung disease - Magnetite retention, distribution, relaxation rate, viscosity (rabbits)
** R01HL-17689-06 Naurophysiologic studies of respiratory control (cats)
R01HL-17715-04 Respiratory muscle afferents in respiratory control (cats)
** R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
P01HL-17731-04 0002 Physiological basis of pulmonary disease - Biomechanics of the lung (frogs, cats)
** P01HL-17731-04 0003 Physiological basis of pulmonary disease Comparative physiology (vertebrates)
P01HL-17731-04 0007 Physiological basis of pulmonary disease - Theoretical gas exchange
R01HL-17944-03 Studies in lung preservation (dogs)
R01HL-18143-03 Surgery and pulmonary tissue alterations (dogs, rats, human)
M P50HL-19170-02 Harvard pulmonary SCOR--Chronic diseases of the airways
P50HL-19170-02 0007 Harvard pulmonary SCOR--Chronic diseases of the airways - Therapy effect on airway obstruction in acute asthma (human)
P50HL-19170-02 0009 Harvard pulmonary SCOR--Chronic diseases of the airways - Ventilatory muscle training in chronic obstructive pulmonary disease (human)
P50HL-19171-02 0001 Pulmonary SCOR--Lung injury by childhood infections - Longitudinal study--Respiratory infections and lung growth in normal children
P50HL-19171-02 0004 Pulmonary SCOR--Lung injury by childhood infections - Long-term effects of respiratory infections in early childhood
P50HL-19171-02 0011 Pulmonary SCOR--Lung injury by childhood infections - Clinical support core
P50HL-19185-02 0011 Pulmonary SCOR--Neonatal respiratory distress syndromes - Complications and sequelae of neonatal respiratory distress (human)
M P50HL-19190-02 Pulmonary SCOR--Pathophysiology, management of IRDS
** R01HL-19195-03 Hormonal regulation of lung function (rats)
M R01HL-19225-02 Types and mechanisms of pulmonary hypertension
** R01HL-19225-02 0003 Types and mechanisms of pulmonary hypertension - Cardiopulmonary function in pigs and rats
P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of cigarette smoking on atherosclerosis (baboon)
P50HL-19362-02 0007 A/S SCOR--Atherosclerosis in nonhuman primates - Behavior type, cigarette smoking and atherosclerosis (baboon)
R01HL-19379-03 Characterization of small-granule cells in the lung (mammals)
R23HL-19573-01 Studies on pulmonary serotonin (mice)
P01HL-19717-02 0006 Response of the lung to injury - Glycosaminoglycans and proteoglycans of the lung (human, rats, hamsters)
** P01HL-19717-02 0010 Response of the lung to injury - Proteoglycans in lung function and structure (hamsters)
P01HL-19717-02 0011 Response of the lung to injury - Physiological characterization of the elastase model (hamsters)
** P01HL-19717-02 0037 Response of the lung to injury - Catecholamines, prostaglandins and nucleotides in pulmonary function (animals)
M P01HL-19737-02 Cellular and molecular aspects of respiratory physiology
P01HL-19737-02 0001 Cellular and molecular aspects of respiratory physiology - Fatty acid metabolism in type II alveolar cells (rats)
** P01HL-19737-02 0011 Cellular and molecular aspects of respiratory physiology - Chemical and metabolic factors on peripheral chemoreceptor activity (cats)
R01HL-20105-02 Deposition of hygroscopic aerosols in bronchi (dogs, human, models)
R01HL-20192-02 Ciliary activity of the lung studied by laser scattering
R01HL-20347-02 Bolus-response measurement of lung function (human)
R01HL-20548-02 Innervation of the lung (rats, monkeys)
** R01HL-20773-02 Surfactant, pulmonary edema, and lung mechanics (rabbits)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-20800-17 Neural basis of respiratory and vasomotor activity (cats)
R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
R01HL-21126-02 Exercise-induced bronchospasm in children
** R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
R01HL-21352-02 Community studies of obstructive lung disease (human)
R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
P01HL-21584-02 9001 Respiratory mechanics in normal and abnormal states - Technical and equipment core
P01HL-21584-02 9002 Respiratory mechanics in normal and abnormal states - Computational and statistical core facility
R23HL-21954-01 Exercise conditioning in patients with cystic fibrosis
** R13HL-22159-01 Conference on non-ventilatory functions of the lungs (New Hampshire)
R01HL-22178-01 Lung airway properties by acoustic impulse reflection
** R01HL-22333-01 Cellular basis of small airways function (rats)
R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-22418-01 Neural control of cardio-respiratory function (cats)
R01HL-22517-01 Engineering development of an ultrasonic ventilometer (human)
R01HL-22520-01 Pulmonary vascular response to group B Streptococci (human, mammals)
** R01HL-22528-02 Early risk predictors for chronic pulmonary disease (human)
** R01HL-22636-01 Newborn lung function during mechanical ventilation (human)
R01HL-22661-01 Chronic total cardiopulhonary mechanical substitution (sheep)
R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))
** R01HL-22844-01 Phrenic nerve pacing--Noninvasive diaphragm analysis (human, dogs)
** R01HL-23601-01 Early hypoxia and development of respiratory control
** R01HL-23981-01 Acute alveolar injury (dogs)
N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)
N01HR-72972-01 Self-management for asthmatic children
N01HR-72974-01 Self-management systems for asthmatic children

RESPIRATORY FUNCTION, APNEA

P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
P50HL-14214-07 0027 Newborn lung center for hyaline membrane disease - Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep)
P50HL-14214-07 0029 Newborn lung center for hyaline membrane disease - The diving reflex--Perinatal asphyxia, pulmonary ischemia and HMO (sheep)
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
R01HL-15659-05 Oynamic isolation studies of control of respiration (human)
R01HL-18007-05 Neural mechanisms controling motor act of breathing (cats, human)
P50HL-19187-02 0009 Pediatric pulmonary SCOR--Hyaline membrane disease - Non-invasive measurement and monitoring of arterial oxygen tension (dogs, sheep)
P50HL-19187-02 0010 Pediatric pulmonary SCOR--Hyaline membrane disease - Treatment, outcome of HMO--Continuous positive airway pressure (human, monkey)
P50HL-19187-02 0012 Pediatric pulmonary SCOR--Hyaline membrane disease - Resource requirements, economic consequence of HMO and recurrent apnea
R01HL-22418-01 Neural control of cardio-respiratory function (cats)
R01HL-23601-01 Early hypoxia and development of respiratory control

RESPIRATORY FUNCTION, BRONCHOMOTION

** P01HL-06664-17 0043 Cardiopulmonary function in remediable vascular disease - Alveolar hypoxic vasoconstriction--Control and clinical significance (dog, human)
P50HL-14153-07 0017 Johns Hopkins Lung Center--Chronic diseases of airways - Collateral ventilation and pulmonary interdependence (pig, dog, human)
P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
P50HL-19156-02 0001 Pulmonary SCOR--Chronic diseases of airways - Irritability of airways induced by epithelial damage in healthy subjects (human)
P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
** P50HL-19156-02 0005 Pulmonary SCOR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
R01HL-20122-02 Operational mechanisms of airway receptors (dogs, pigs)
R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)
** R23HL-22920-01 Oynamic airway behavior (dogs)

RESPIRATORY FUNCTION, HYPERPNEA

P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
P01HL-11678-11 0009 Cardiovascular dynamics and their control - Control of respiration (cat, human)
** R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
R01HL-14967-06 Chemoreceptor function in dynamic ventilatory control (human, dogs)
P01HL-14985-07 0008 Adaptation to hypoxia - Ventilatory drive and exercise capacity (human, dogs)
R01HL-15659-05 Oynamic isolation studies of control of respiration (human)
R01HL-16022-05 Oeterminants of the ventilatory response to hypoxia (goats, cats)
P01HL-16118-06 0005 Study of emphysema - Mechanisms of elastase emphysema (mice)
R01HL-16390-05 Cardiopulmonary control coupling in exercise (dogs)
R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
** R01HL-19410-03 Oynamic interrelations underlying exercise hyperpnea (human)
R01HL-19827-02 Role of the upper airways in the control of breathing (human, cats, dogs)
R01HL-21318-02 Mechanisms of emotions' asthma triggering effect (human)
R23HL-21990-01 Accuracy of the ventilatory response to exercise (dogs)

RESPIRATORY FUNCTION, HYPOVENTILATION (GENERAL)

P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
P01HL-14985-07 0013 Adaptation to hypoxia - Chronic mountain sickness (men)
R01HL-22622-01 Sleep apnea and desaturation-mechanisms and incidence (human)

RESPIRATORY FUNCTION, HYPOVENTILATION, RESPIRATORY CENTER DYSFUNCTION

R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
** P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
** R01HL-16325-03 Breathing patterns in man
P50HL-19187-02 0011 Pediatric pulmonary SCOR--Hyaline membrane disease - Effects of hypoxia and hypercapnia on developing nervous system (monkey, human)
** R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
R01HL-21257-02 Breathing in sleep--Airway control and blood gases (cats)
** R01HL-22622-01 Sleep apnea and desaturation-mechanisms and incidence (human)

RESPIRATORY FUNCTION, LIQUIDS BREATHING

SEE ALSO RESPIRATORY ASSIST ANO OXYGEN AOMINISTRATION, FLUOROCARBON

M P01HL-07896-15 Environmental biomedical research program
** P01HL-07896-15 0021 Environmental biomedical research program - Liquid breathing and lung lavage (human)
P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
** R01HL-22843-01 Pulmonary physiology in liquid ventilation (lambs)

RESPIRATORY FUNCTION, PULMONARY DIFFUSION

SEE ALSO RESPIRATORY CIRCULATION, PULMONARY CIRCULATION

** P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
** P01HL-10342-13 0014 The integrated function of respiration and circulation - Oxygen and carbon monxide transfer (human, dogs, sheep)
** P01HL-10342-13 0023 The integrated function of respiration and circulation - Carbon dioxide transport and CSF acid base balance (hogs, pigs)
** P01HL-10342-13 0025 The integrated function of respiration and circulation - Pulmonary gas exchange and metabolism (human, dogs, sheep)
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
** R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
P50HL-14153-07 0018 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary function core
** P50HL-14187-07 0015 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pathophysiologic responses of pulmonary capillary bed (dog, human)
M P01HL-14414-07 Environmental influences on cardiorespiratory and cellular functions
** P01HL-14414-07 0003 Environmental influences on cardiorespiratory and cellular functions - Exposure to abnormal gaseous environments (human, dogs, rabbits)
** P01HL-14985-07 0002 Adaptation to hypoxia - Oxygen transport in man at high altitude
P50HL-15061-07 0004 Response of lung to injury - Biochemical abnormalities in connective tissues (rats)
P60HL-15160-07 0015 Center for sickle cell disease - Lung function abnormalities in sickle cell hemoglobinopathies (human)
** P01HL-15194-07 0006 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Velocity of Bohr effect in erythrocytes (human)
** P01HL-15194-07 0009 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Oiffusion and erythrocytes reaction rates (human, dogs)
** P01HL-15194-07 0022 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Pulmonary carbon dioxide exchange (dogs)
** P01HL-15194-07 0023 Pathophysiology of cardiopulmonary dysfunction - Oistribution of ventilation--Oiffusion and cardiogenic agitation (dogs)
P50HL-15389-07 0016 Pulmonary SCOR--Hypersensitivity pneumonitis - Pulmonary physiology core (human)
R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)
M P01HL-17731-04 Physiological basis of pulmonary disease
P01HL-17731-04 0001 Physiological basis of pulmonary disease - Mechanisms of blood flow and ventilation (dogs)
P01HL-17731-04 0003 Physiological basis of pulmonary disease - Comparative physiology (vertebrates)
** P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
** P01HL-17731-04 0007 Physiological basis of pulmonary disease - Theoretical gas exchange
P01HL-17731-04 0010 Physiological basis of pulmonary disease - Gas exchange kinetics (dogs)
P01HL-17731-04 0011 Physiological basis of pulmonary disease - Morphometric studies of the lung--Core
** P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Oiffuse interstitial lung disease--Pathophysiology (human, dogs)
** R01HL-18022-03 Role of multicomponent diffusion in gas exchange (avian eggs)
** R01HL-18028-03 Absorption of nonvolatile compounds from the lung
P50HL-19155-02 0002 Pathophysiology of pulmonary edema - Non-invasive measurement of protein turnover in human lung (also sheep)
P50HL-19155-02 0005 Pathophysiology of pulmonary edema - Protein exchange sites and lymph protein concentration in lung (mice, sheep)
P50HL-19156-02 0002 Pulmonary SCOR--Chronic diseases of airways - Early detection of emphysema and chronic airway obstruction (human, dog)
P50HL-19187-02 0001 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Changes in lung mechanics and gas exchange (monkeys)
P01HL-19717-02 0008 Response of the lung to injury - Experimental models of lung disease
** R01HL-19733-03 Absorption of antigen through inflamed lungs (rabbits)
** P01HL-19737-02 0010 Cellular and molecular aspects of respiratory physiology - Effects of pulsatile flow and volume on capillary exchanges (dogs, rats)
R23HL-20576-01 Airway turbulence and pulmonary oxygen exchange
R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
R01HL-21948-01 Capillary, tissue volume and lymph flow in lung edema (sheep, cattle)
** R23HL-22932-01 Effect of carbon dioxide on local gas exchange (dogs)
** R01HL-22976-01 Nonuniform ventilation and diffusing capacity (human)

RESPIRATORY FUNCTION, PULMONARY VENTILATION

R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
P01HL-07896-15 0036 Environmental biomedical research program - Respiratory heat loss in deep diving (infants, dogs)
** P01HL-07896-15 0048 Environmental biomedical research program - Respiratory performance in divers at 1400 FSW
P01HL-07896-15 0058 Environmental biomedical research program - Lung synthesis of disaturated phosphatidylcholine (rats, dogs, bats)
P01HL-07896-15 0063 Environmental biomedical research program - Oxygen toxicity (baboons)
** R01HL-08789-11 Respiratory muscles and ventilatory control in man (and dogs)
** P01HL-08805-15 0006 Regulation of ventilation and pulmonary circulation - Adaptation of lungfish--Estivation

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P01HL-08805-15 0025 Regulation of ventilation and pulmonary circulation - Pulmonary edema (rabbits)
P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
** P01HL-08805-15 0046 Regulation of ventilation and pulmonary circulation - Sites and modes of interaction of peripheral and central chemoreceptors
** P01HL-08805-15 0047 Regulation of ventilation and pulmonary circulation - Extracranial metabolic control of ventilation (dogs, goats)
P01HL-08899-14 0017 Tolerance to respiratory gases in health and disease - Pulmonary tolerance (human, dogs)
P01HL-08899-14 0020 Tolerance to respiratory gases in health and disease - Oxygen tolerance (human, rats, guinea pigs)
** P01HL-08899-14 0025 Tolerance to respiratory gases in health and disease - Effects of oxygen on cardiopulmonary gas transport functions (dogs)
** R01HL-10009-13 Regional lung function in man
P01HL-10342-13 0006 The integrated function of respiration and circulation - Lung inflation effects on pulmonary vasculature and interstitial space (dogs)
** P01HL-10342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
P01HL-10342-13 0014 The integrated function of respiration and circulation - Oxygen and carbon monxide transfer (human, dogs, sheep)
P01HL-10342-13 0023 The integrated function of respiration and circulation - Carbon dioxide transport and CSF acid base balance (hogs, pigs)
P01HL-10342-13 0025 The integrated function of respiration and circulation - Pulmonary gas exchange and metabolism (human, dogs, sheep)
P01HL-10436-13 0001 A multidisciplinary study of congenital heart disease - Assessment of the outlook for children with congenital heart disease
** P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
** P01HL-11678-11 0009 Cardiovascular dynamics and their control - Control of respiration (cat, human)
** R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
** R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
** R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
R01HL-12564-09 Control of respiration and blood gases (human, dog)
R01HL-13233-08 Cardiorespiratory control in exercise (human)
R01HL-13824-06 Defense mechanisms in pathogenesis of emphysema (human, dogs)
R01HL-13841-16 Respiration during altitude acclimatization (goats, dogs, rats, rabbits)
R01HL-13885-08 9001 Cystic fibrosis and pulmonary disease - Pulmonary function core facility (infants, children)
** R01HL-13888-15 Regulation of respiration
** R01HL-13921-07 The lung as a metabolic organ (animals)
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
** P50HL-14136-07 0001 Pulmonary SCOR--Airways obstructive diseases - Experimental airway obstructive disease (dogs)
P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
** P50HL-14153-07 0017 Johns Hopkins Lung Center--Chronic diseases of airways - Collateral ventilation and pulmonary interdependence (pig, dog, human)
** P50HL-14214-07 0030 Newborn lung center for hyaline membrane disease - Effects of ductal patency--Impedance cardiography and echocardiography (human)
P01HL-14414-07 0007 Environmental influences on cardiorespiratory and cellular functions - Neural control of respiration (human, cats)
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
** P01HL-14580-07 0003 Program project in respiratory mechanics - Chest wall mechanics and respiratory control (human, dogs)
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
** R01HL-14870-06 Dynamics of oxygen and carbon dioxide regulation (animals)
** R01HL-14967-06 Chemoreceptor function in dynamic ventilatory control (human, dogs)
M P01HL-14985-07 Adaptation to hypoxia
P01HL-14985-07 0002 Adaptation to hypoxia - Oxygen transport in man at high altitude
** P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
P01HL-14985-07 0005 Adaptatinn to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
** P01HL-14985-07 0008 Adaptation to hypoxia - Ventilatory drive and exercise capacity (human, dogs)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
P01HL-14985-07 0010 Adaptation to hypoxia - Pulmonary mast cell (animals)
P01HL-14985-07 0011 Adaptation to hypoxia - Prostaglandins in the control of the pulmonary circulation (animals)
P01HL-14985-07 0015 Adaptation to hypoxia - Pregnancy at high altitude (human, animals)
P50HL-15061-07 0013 Response of lung to injury - Exchange transfusion in infants with respiratory distress syndrome (human, sheep)
P60HL-15160-07 0015 Center for sickle cell disease - Lung function abnormalities in sickle cell hemoglobinopathies (human)
M P01HL-15194-07 Pathophysiology of cardiopulmonary dysfunction
** P01HL-15194-07 0011 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Oxygen effects on intrapulmonary shunting (human)
** P01HL-15194-07 0023 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Diffusion and cardiogenic agitation (dogs)
** P01HL-15194-07 0024 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Airflow limitation in COLD (human)
P50HL-15389-07 0016 Pulmonary SCOR--Hypersensitivity pneumonitis - Pulmonary physiology core (human)
R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
R01HL-15469-06 Human ventilatory adaptation (also, dogs, rats)
R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
R01HL-15694-06 Pulmonary factors in circulatory regulation
** R01HL-16022-05 Determinants of the ventilatory response to hypoxia (goats, cats)
R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
R01HL-16325-03 Breathing patterns in man
** R01HL-16390-05 Cardiopulmonary control coupling in exercise (dogs)
** R01HL-16463-05 Localization of airways obstruction and responses
P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
M P01HL-16878-05 Control of ventilation in health and disease
** P01HL-16878-05 0001 Control of ventilation in health and disease - Ability of asthmatics to detect added resistive and elastic loads
** P01HL-16878-05 0003 Control of ventilation in health and disease - Brain stem respiratory neurons in response mechanical/chemical loading (animal)
** P01HL-16878-05 0004 Control of ventilation in health and disease - Neurotransmitters in the respiratory system (cats)
R01HL-16916-04 0001 The role of albumins in lung water accumulation - Capillary permeability (dogs, human)
** R01HL-17314-04 Effects of anesthesia and loading on respiration (human, cats)
** R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
R01HL-17403-03 Metabolic control of cardiac output (dogs)
P01HL-17417-05 0005 Experimental lung transplantation - Lung transplantation in bilateral emphysema (dogs)
R01HL-17578-04 Exercise performance in children with heart disease
** P50HL-17682-04 0007 Study of ischemic heart disease - Mechanisms of hypoxemia in myocardial infarction (human)
R01HL-17689-06 Neurophysiologic studies of respiratory control (cats)
M P01HL-17731-04 Physiological basis of pulmonary disease
** P01HL-17731-04 0001 Physiological basis of pulmonary disease - Mechanisms of blood flow and ventilation (dogs)
P01HL-17731-04 0003 Physiological basis of pulmonary disease - Comparative physiology (vertebrates)
** P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
** P01HL-17731-04 0007 Physiological basis of pulmonary disease - Theoretical gas exchange
P01HL-17731-04 0011 Physiological basis of pulmonary disease - Morphometric studies of the lung--Core
** P01HL-17731-04 0012 Physiological basis of pulmonary disease - Statistics and computing--Core
** R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
M P01HL-17813-04 Lung disease and the oxygenation of blood and tissue
** P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)
** P01HL-17813-04 0006 Lung disease and the oxygenation of blood and tissue - Assessment of respiratory muscle contractile force (human, dogs)
R01HL-18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)
** R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
P50HL-19155-02 0001 Pathophysiology of pulmonary edema - Pulmonary edema study unit (human, dog)
P50HL-19156-02 0002 Pulmonary SCOR--Chronic diseases of airways - Early detection of emphysema and chronic airway obstruction (human, dog)
P50HL-19170-02 0003 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanisms of bronchial reactivity to acute and chronic airway challenge (dog)
** P50HL-19170-02 0004 Harvard pulmonary SCOR--Chronic diseases of the airways - Exercise, increased ventilation effect on airway exposure and responses (rodent)
** P50HL-19170-02 0009 Harvard pulmonary SCOR--Chronic diseases of the airways - Ventilatory muscle training in chronic obstructive pulmonary disease (human)
P50HL-19185-02 0003 Pulmonary SCOR--Neonatal respiratory distress syndromes - Factors affecting formation and release of pulmonary surfactant in fetal lambs
P50HL-19185-02 0009 Pulmonary SCOR--Neonatal respiratory distress syndromes - Nasal continuous positive airway pressure in hyaline membrane disease (human)
** P50HL-19187-02 0001 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Changes in lung mechanics and gas exchange (monkeys)
P50HL-19187-02 0011 Pediatric pulmonary SCOR--Hyaline membrane disease - Effects of hypoxia and hypercapnia on developing nervous system (monkey, human)
** P50HL-19190-02 0006 Pulmonary SCOR--Pathophysiology, management of IROS - Asphyxia--Respiratory control (dogs)
P50HL-19190-02 0009 Pulmonary SCOR--Pathophysiology, management of IROS - Developing non-invasive neonatal pulmonary monitoring systems (rabbit, human)
R01HL-19225-02 0003 Types and mechanims of pulmonary hypertension - Cardiopulmonary function in pigs and rats
R01HL-19248-03 Breathing pattern variation and mechanical influences
R01HL-19410-03 Dynamic interrelations underlying exercise hyperpnea (human)
R01HL-19449-03 Gas exchange in acute respiratory failure
P01HL-19717-02 0046 Response of the lung to injury - Bioengineering section
** P01HL-19737-02 0005 Cellular and molecular aspects of respiratory physiology - Interaction of respiratory exchanges and blood gas parameters (human, animals)
P01HL-19737-02 0010 Cellular and molecular aspects of respiratory physiology - Effects of pulsatile flow and volume on capillary exchanges (dogs, rats)
R01HL-20344-02 Regulation of protein turnover in lung tissue (rats)
R01HL-20347-02 Bolus-response measurement of lung function (human)
R01HL-20354-02 Direct determination of oxygen tension in the clinical environment (human, dogs)
R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
R01HL-20548-02 Innervation of the lung (rats, monkeys)
R01HL-20568-03 Respiration during prolonged hypercapnia (rats)
R01HL-20574-03 Brain stem integration of chemoreceptor activity (cats)
R23HL-20576-01 Airway turbulence and pulmonary oxygen exchange
R01HL-20652-01 Sites of leakage in pulmonary edema (dogs)
R01HL-20719-02 Cold induced pulmonary hypertension (cattle)
** R01HL-20847-02 Respiratory neurochemical control (human, goats)
** R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
** P01HL-20994-02 0008 Dynamics of neutrophil elastase in the lung - Structure-function correlation in experimental emphysema (human, dogs)
R01HL-21117-01 Altitude adaptation in chronic lung disease (human)
R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
R23HL-21405-01 Respiratory muscles in regulation of infant breathing (human)
R23HL-21409-02 Perinatal control of the ductus arteriosus (sheep)
R01HL-21500-02 Performance of respiratory muscles under stress (dogs)
** R01HL-21518-01 Improvement in regional ventilation-perfusion resolution (human)
R23HL-21539-02 Mechanical properties of isolated small bronchioles (rabbits)
M P01HL-21584-02 Respiratory mechanics in normal and abnormal states
** P01HL-21584-02 0001 Respiratory mechanics in normal and abnormal states - Engineering analysis of lung deformation (human, animals)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-21584-02 0002 Respiratory mechanics in normal and abnormal states - Lung mechanics–Regional deformation and ventilation (dogs)
** P01HL-21584-02 0003 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on ventilation and respiratory mechanics in man
P01HL-21584-02 0004 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on respiratory mechanics (dogs)
** R23HL-21990-01 Accuracy of the ventilatory response to exercise (dogs)
R01HL-22022-01 Respiratory muscle dysfunction in respiratory failure (human)
R01HL-22552-02 Abnormal alveolar permeability and lung disease (sheep)
R01HL-22622-01 Sleep apnea and desaturation-mechanisms and incidence (human)
** R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)
** R01HL-22843-01 Pulmonary physiology in liquid ventilation (lambs)
R01HL-22844-01 Phrenic nerve pacing–Noninvasive diaphragm analysis (human, dogs)
R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)
** R23HL-22932-01 Effect of carbon dioxide on local gas exchange (dogs)
** R01HL-22976-01 Nonuniform ventilation and diffusing capacity (human)
R01HL-23601-01 Early hypoxia and development of respiratory control
** R01HL-23985-01 Role of the diaphragm in regional lung mechanics (dogs)

RESPIRATORY FUNCTION, RESPIRATION

SEE ALSO RESPIRATORY SYSTEM, COLLATERAL RESPIRATION
SEE ALSO RESPIRATORY SYSTEM REFLEXES

** R01HL-02228-24 Respiration, circulation, and heat regulation in exercise (bird, mammals)
** R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
P01HL-04664-18 0003 Cardiovascular and lung dynamics - X-ray projection image videometry (human, dogs)
** P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration–Role of vagus nerve (dogs)
** P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
** P01HL-07896-15 0033 Environmental biomedical research program - Breathing mechanism in birds
** P01HL-07896-15 0061 Environmental biomedical research program - Oxygen cost of breathing during graded exercise (human)
P01HL-08682-15 0037 Regulation of the cardiovascular system - Central nervous regulation of cardiopulmonary mechanisms (cats)
** P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
** P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
P01HL-08805-15 0046 Regulation of ventilation and pulmonary circulation - Sites and modes of interaction of peripheral and central chemoreceptors
P01HL-08805-15 0047 Regulation of ventilation and pulmonary circulation - Extracranial metabolic control of ventilation (dogs, goats)
** P01HL-08899-14 0015 Tolerance to respiratory gases in health and disease - Respiratory adaptations to increases in breathing (human)
** P01HL-08899-14 0020 Tolerance to respiratory gases in health and disease - Oxygen tolerance (human, rats, guinea pigs)
P01HL-08899-14 0024 Tolerance to respiratory gases in health and disease - Effects of oxygen pressures on physiological control systems (human, dogs)
** P01HL-08899-14 0030 Tolerance to respiratory gases in health and disease - Dynamic characteristics of respiratory control components (human, cats)
** P01HL-08899-14 0032 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures upon respiratory control
** P01HL-08899-14 0034 Tolerance to respiratory gases in health and disease - Hyperoxygenation and respiratory response to acid-base stimuli (human, dog)
** P01HL-08899-14 0036 Tolerance to respiratory gases in health and disease - Chemical and neurogenic components of respiratory simulation in exercise (human)
P01HL-08899-14 0041 Tolerance to respiratory gases in health and disease - Blood gas transport and brain circulatory control (human)
M P01HL-10342-13 The integrated function of respiration and circulation
** P01HL-10342-13 0011 The integrated function of respiration and circulation - Control of respiration 1–Peripheral chemoreceptor studies (cats)
P01HL-10342-13 0014 The integrated function of respiration and circulation - Oxygen and carbon monxide transfer (human, dogs, sheep)
** P01HL-10342-13 0026 The integrated function of respiration and circulation - Control of respiration–Characterization of the aortic body (cats)
** P01HL-10342-13 0027 The integrated function of respiration and circulation - Control of respiration–Cardiovascular adjustment to hypoxia and carbon monoxide
P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
** P01HL-11678-11 0009 Cardiovascular dynamics and their control - Control of respiration (cat, human)
** R01HL-12564-09 Control of respiration and blood gases (human, dog)
R01HL-13134-07 Mechanism of chemoreceptor discharge (cats)
** R01HL-13233-08 Cardiorespiratory control in exercise (human)
** R01HL-13841-16 Respiration during altitude acclimatization (goats, dogs, rats, rabbits)
** R01HL-13888-15 Regulation of respiration
P50HL-14153-07 0016 Johns Hopkins Lung Center–Chronic diseases of airways - Airways defense mechanisms (dogs)
** P01HL-14414-07 0007 Environmental influences on cardiorespiratory and cellular functions - Neural control of respiration (human, cats)
** P01HL-14580-07 0003 Program project in respiratory mechanics - Chest wall mechanics and respiratory control (human, dogs)
** R01HL-14870-06 Dynamics of oxygen and carbon dioxide regulation (animals)
R01HL-14903-07 A new index of cardiac contractility (human, dogs, baboons)
** P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
** P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
P01HL-15194-07 0023 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation–Diffusion and cardiogenic agitation (dogs)
R01HL-15526-05 Respiratory mechanics in children
** R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
** R01HL-16325-03 Breathing patterns in man
P01HL-16878-05 0001 Control of ventilation in health and disease - Ability of asthmatics to detect added resistive and elastic loads
** R01HL-17314-04 Effects of anesthesia and loading on respiration (human, cats)
P50HL-17682-04 0007 Study of ischemic heart disease - Mechanisms of hypoxemia in myocardial infarction (human)
** R01HL-17689-06 Neurophysiologic studies of respiratory control (cats)
** R01HL-18007-05 Neural mechanisms controling motor act of breathing (cats, human)
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
P50HL-19155-02 0001 Pathophysiology of pulmonary edema - Pulmonary edema study unit (human, dog)
P50HL-19187-02 0001 Pediatric pulmonary SCOR–Hyaline membrane disease - Hyaline membrane disease–Changes in lung mechanics and gas exchange (monkeys)
P50HL-19190-02 0006 Pulmonary SCOR–Pathophysiology, management of IRDS - Asphyxia–Respiratory control (dogs)
** R01HL-19248-03 Breathing pattern variation and mechanical influences
** R01HL-19827-02 Role of the upper airways in the control of breathing (human, cats, dogs)
** R01HL-19829-02 Power output of breathing (human)
R01HL-20328-01 Noninvasive assessment of autonomic cardiac control (dogs)
** R01HL-20568-03 Respiration during prolonged hypercapnia (rats)
R01HL-20574-03 Brain stem integration of chemoreceptor activity (cats)
R23HL-20576-01 Airway turbulence and pulmonary oxygen exchange
R01HL-20847-02 Respiratory neurochemical control (human, goats)
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)
R23HL-21042-01 Cardiopulmonary reflexes and their anatomical basis (dogs)
** R01HL-21257-02 Breathing in sleep–Airway control and blood gases (cats)
R01HL-22296-01 Autonomic mechanisms in man
R01HL-22418-01 Neural control of cardio-respiratory function (cats)
R13HL-22525-01 International symposium on the diaphragm (Virginia)
R01HL-22546-02 Baroreceptor reflex mechanisms in man
R01HL-22622-01 Sleep apnea and desaturation-mechanisms and incidence (human)
** R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)
** R23HL-22920-01 Dynamic airway behavior (dogs)
N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)

RESPIRATORY FUNCTION, RESPIRATION, THORACIC PRESSURE

R01HL-13885-08 9001 Cystic fibrosis and pulmonary disease - Pulmonary function core facility (infants, children)

RESPIRATORY FUNCTION, RESPIRATORY AIRWAY CLEARANCE

** P01HL-06285-18 0189 Cardiovascular-respiratory physiology and biochemistry - Mucociliary clearance (cats, dogs)
** R01HL-13596-07 Clearance of plasma proteins from alveoli
P50HL-14153-07 0016 Johns Hopkins Lung Center–Chronic diseases of airways - Airways defense mechanisms (dogs)
** R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
P50HL-19156-02 0003 Pulmonary SCOR–Chronic diseases of airways - Powdered tantalum to study airway morphology and mucociliary clearance (human)
** P50HL-19157-02 0003 Studies in cystic fibrosis and bronchiolitis - Nasal mucosal function in patients with cystic fibrosis
** P50HL-19170-02 0008 Harvard pulmonary SCOR–Chronic diseases of the airways - Multiple-transient artificial coughing (dogs, human)
P50HL-19190-02 0005 Pulmonary SCOR–Pathophysiology, management of IROS - Glycoproteins in mucous secretions (human, cattle)
** R01HL-19431-03 Regional mucociliary transport in the human lung
** R01HL-19975-02 Laryngeal biomechanics in pulmonary therapy (primates)
R01HL-21115-01 Prevention of 02 toxicity with superoxide dismutase (rats)
** R01HL-22928-01 Systematic study of bronchial circulation (sheep)
N01HR-62901-04 Measure pulmonary function in infants and children (also dogs, rabbits)

RESPIRATORY FUNCTION, RESPIRATORY AIRWAY PRESSURES

P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration–Role of vagus nerve (dogs)
P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
R01HL-08789-11 Respiratory muscles and ventilatory control in man (and dogs)
P01HL-08805-15 0025 Regulation of ventilation and pulmonary circulation - Pulmonary edema (rabbits)
P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
P01HL-08899-14 0015 Tolerance to respiratory gases in health and disease - Respiratory adaptations to increases in breathing (human)
R01HL-10009-13 Regional lung function in man
** P01HL-10342-13 0006 The integrated function of respiration and circulation - Lung inflation effects on pulmonary vasculature and interstitial space (dogs)
P01HL-10342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
P01HL-10342-13 0011 The integrated function of respiration and circulation - Control of respiration 1–Peripheral chemoreceptor studies (cats)
P50HL-14136-07 0001 Pulmonary SCOR–Airways obstructive diseases - Experimental airway obstructive disease (dogs)
P50HL-14136-07 0004 Pulmonary SCOR–Airways obstructive diseases - Morphometric studies of developing emphysema (human)
P50HL-14136-07 0017 Pulmonary SCOR–Airways obstructive diseases - Pediatric airways obstructive disease (human)
P50HL-14153-07 0013 Johns Hopkins Lung Center–Chronic diseases of airways - Pulmonary mechanics and mediators of allergic reactions (guinea pigs, human)
P50HL-14153-07 0017 Johns Hopkins Lung Center–Chronic diseases of airways - Collateral ventilation and pulmonary interdependence (pig, dog, human)
P50HL-14153-07 0018 Johns Hopkins Lung Center–Chronic diseases of airways - Pulmonary function core
P50HL-14214-07 0030 Newborn lung center for hyaline membrane disease - Effects of ductal patency–Impedance cardiography and echocardiography (human)
P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
P01HL-14580-07 0002 Program project in respiratory mechanics - Airway aerodynamics (human, dogs)
R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
P50HL-15061-07 0004 Response of lung to injury - Biochemical abnormalities in connective tissues (rats)
P01HL-15194-07 0024 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation–Airflow limitation in COLD (human)
P50HL-15389-07 0016 Pulmonary SCOR–Hypersensitivity pneumonitis - Pulmonary physiology core (human)

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**Oriented significantly to above subject.

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R01HL-16463-05 Localization of airways obstruction and responses
R01HL-17314-04 Effects of anesthesia and loading on respiration (human, cats)
R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
P50HL-17655-04 0003 Study of ischemic haart disease Cardiopulmonary resuscitation (human, dog)
R01HL-17944-03 Studies in lung preservation (dogs)
R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
R01HL-19118-03 Measurement of airways mechanics (human, dog)
P50HL-19156-02 0001 Pulmonary SCOR--Chronic diseases of airways - Irritability of airways induced by epithelial damage in healthy subjects (human)
P50HL-19157-02 0003 Studies in cystic fibrosis and bronchiolitis - Nasal mucosal function in patients with cystic fibrosis
P50HL-19170-02 0006 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanism of overdistension (human, animal)
P50HL-19187-02 0001 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Changes in lung mechanics and gas exchange (monkeys)
P50HL-19187-02 0002 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Alterations in surface active material (monkeys)
P50HL-19190-02 0009 Pulmonary SCOR--Pathophysiology, management of IROS - Oeveloping non-invasive neonatal pulmonary monitoring systems (rabbit, human)
P50HL-19362-02 0008 A/S SCOR--Atherosclerosis in nonhuman primates - Lung structure and function in cigarette smoking (baboon)
P01HL-19717-02 0018 Response of the lung to injury - Lung mechanics and connective tissue composition in human emphysema
** R01HL-19829-02 Power output of breathing (human)
R01HL-20568-03 Respiration during prolonged hypercapnia (rats)
** R01HL-20652-01 Sites of leakage in pulmonary edema (dogs)
R01HL-20773-02 Surfactant, pulmonary edema, and lung mechanics (rabbits)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
R23HL-21050-02 Mechanisms of re-expansion pulmonary edema (rabbits)
R01HL-21115-01 Prevention of 02 toxicity with superoxide dismutase (rats)
R01HL-21257-02 Breathing in sleep--Airway control and blood gases (cats)
R23HL-21405-01 Respiratory muscles in regulation of infant breathing (human)
R01HL-21444-02 Pulmonary mechanics during postnatal development (human)
M P01HL-21584-02 Respiratory mechanics in normal and abnormal states
P01HL-21584-02 0001 Respiratory mechanics in normal and abnormal states - Engineering analysis of lung deformation (human, animals)
P01HL-21584-02 0002 Respiratory mechanics in normal and abnormal states - Lung mechanics--Regional deformation and ventilation (dogs)
P01HL-21584-02 0006 Respiratory mechanics in normal and abnormal states - Respiratory mechanics in health and disease (human, pigs)
R01HL-22313-01 Lung elastic recoil--Age and disease (human)
R01HL-22446-01 Chemical and functional studies of low copper in lung (pigs)
R01HL-22723-01 The morphologic basis of airflow obstruction (human)
R01HL-22843-01 Pulmonary physiology in liquid ventilation (lambs)
** R23HL-22920-01 Dynamic airway behavior (dogs)
R01HL-23985-01 Role of the diaphragm in regional lung mechanics (dogs)
N01HR-62910-02 Fibroprotein networks of pulmonary alveolar wall (human)

RESPIRATORY FUNCTION, RESPIRATORY AIRWAY VOLUME

P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
P01HL-04664-18 0016 Cardiovascular and lung dynamics - Computerized roentgenographic determination of total lung capacity
P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
** P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
P01HL-07896-15 0009 Environmental biomedical research program - Decompression sickness and computation of safe diving tables (human, animals)
P01HL-07896-15 0014 Environmental biomedical research program Mechanisms of respiration and circulation (human, dogs)
P01HL-07896-15 0058 Environmental biomedical research program - Lung synthesis of disaturated phosphatidylcholine (rats, dogs, bats)
P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation Neurochemical interactions in respiratory control (human, dogs, goats)
P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation Integrated description of neurochemical respiratory control system
P01HL-08899-14 0031 Tolerance to respiratory gases in health and disease - Studies in exercise (human, dogs)
R01HL-10009-13 Regional lung function in man
** P01HL-10342-13 0006 The integrated function of respiration and circulation - Lung inflation effects on pulmonary vasculature and interstitial space (dogs)
P01HL-10342-13 0008 The integrated function of respiration and circulation - Respiratory mechanics and the circulation (human, dogs)
P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
R01HL-13885-08 9001 Cystic fibrosis and pulmonary disease - Pulmonary function core facility (infants, children)
P50HL-14136-07 0001 Pulmonary SCOR--Airways obstructive diseases - Experimental airway obstructive disease (dogs)
P50HL-14136-07 0004 Pulmonary SCOR--Airways obstructive diseases - Morphometric studies of developing emphysema (human)
P50HL-14136-07 0005 Pulmonary SCOR--Airways obstructive diseases - Radiographic studies of airways obstructive disease (human)
P50HL-14153-07 0013 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary mechanics and mediators of allergic reactions (guinea pigs, human)
P50HL-14153-07 0017 Johns Hopkins Lung Center--Chronic diseases of airways - Collateral ventilation and pulmonary interdependence (pig, dog, human)
P50HL-14153-07 0018 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary function core
P50HL-14214-07 0030 Newborn lung center for hyaline membrane disease - Effects of ductal patency--Impedance cardiography and echocardiography (human)
P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
P01HL-14580-07 0003 Program project in respiratory mechanics - Chest wall mechanics and respiratory control (human, dogs)
P01HL-14580-07 0005 Program project in respiratory mechanics - Oevelopment and evaluation of tests of pulmonary function (human)
R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
** R01HL-14967-06 Chemoreceptor function in dynamic ventilatory control (human, dogs)
P60HL-15160-07 0015 Center for sickle cell disease - Lung function abnormalities in sickle cell hemoglobinopathies (human)
P01HL-15194-07 0009 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Diffusion and erythrocytes reaction rates (human, dogs)
P01HL-15194-07 0011 Pathophysiology of cardiopulmonary dysfunction - Oistribution of ventilation--Oxygen effects on intrapulmonary shunting (human)
** P01HL-15194-07 0022 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Pulmonary carbon dioxide exchange (dogs)
P01HL-15194-07 0023 Pathophysiology of cardiopulmonary dysfunction - Oistribution of ventilation--Oiffusion and cardiogenic agitation (dogs)
P01HL-15194-07 0024 Pathophysiology of cardiopulmonary dysfunction - Oistribution of ventilation--Airflow limitation in COLO (human)
P50HL-15389-07 0016 Pulmonary SCOR--Hypersensitivity pneumonitis - Pulmonary physiology core (human)
R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
R01HL-15526-05 Respiratory mechanics in children
R01HL-16463-05 Localization of airways obstruction and responses
** R01HL-16784-03 Lung tissue and water volume (human, dogs)
P01HL-16878-05 0001 Control of ventilation in health and disease - Ability of asthmatics to detect added resistive and elastic loads
R01HL-17314-04 Effects of anesthesia and loading on respiration (human, cats)
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
R01HL-17543-03 0001 Magnetic tracers for diagnosis of lung disease - Chronic, interstitial lung disease (human, rabbits)
P50HL-17655-04 0003 Study of ischemic heart disease Cardiopulmonary resuscitation (human, dog)
R01HL-17689-06 Neurophysiologic studies of respiratory control (cats)
P01HL-17731-04 0001 Physiological basis of pulmonary disease Mechanisms of blood flow and ventilation (dogs)
P01HL-17731-04 0003 Physiological basis of pulmonary disease - Comparative physiology (vertebrates)
R01HL-17768-04 Oevelopment of collateral ventilation (dogs, fish, horses)
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Oiffuse interstitial lung disease--Pathophysiology (human, dogs)
P01HL-17813-04 0006 Lung disease and the oxygenation of blood and tissue Assessment of respiratory muscle contractile force (human, dogs)
R01HL-18351-03 Brain metabolism, acid-base balance, and respiration
R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
P50HL-19155-02 0001 Pathophysiology of pulmonary edema - Pulmonary edema study unit (human, dog)
P50HL-19156-02 0003 Pulmonary SCOR--Chronic diseases of airways - Powdered tantalum to study airway morphology and mucociliary clearance (human)
P50HL-19170-02 0001 Harvard pulmonary SCOR--Chronic diseases of the airways - Natural history, reversibility of pulmonary abnormalities in smokers (human)
P50HL-19170-02 0003 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanisms of bronchial reactivity to acute and chronic airway challenge (dog)
** P50HL-19170-02 0006 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanism of overdistension (human, animal)
P50HL-19185-02 0004 Pulmonary SCOR--Neonatal respiratory distress syndromes - Fluid and protein transport in fetal and newborn lung (sheep, rabbits)
P50HL-19185-02 0009 Pulmonary SCOR--Neonatal respiratory distress syndromes - Nasal continuous positive airway pressure in hyaline membrane disease (human)
P50HL-19187-02 0001 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Changes in lung mechanics and gas exchange (monkeys)
P50HL-19187-02 0002 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Alterations in surface active material (monkeys)
P50HL-19190-02 0006 Pulmonary SCOR--Pathophysiology, management of IROS - Asphyxia--Respiratory control (dogs)
P50HL-19190-02 0009 Pulmonary SCOR--Pathophysiology, management of IROS - Oeveloping non-invasive neonatal pulmonary monitoring systems (rabbit, human)
R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)
P50HL-19362-02 0008 A/S SCOR--Atherosclerosis in nonhuman primates - Lung structure and function in cigarette smoking (baboon)
R01HL-19449-03 Gas exchange in acute respiratory failure
** P01HL-19717-02 0011 Response of the lung to injury - Physiological characterization of the elastase model (hamsters)
P01HL-19717-02 0018 Response of the lung to injury - Lung mechanics and connective tissue composition in human emphysema
** R01HL-19829-02 Power output of breathing (human)
R01HL-20344-02 Regulation of protein turnover in lung tissue (rats)
R01HL-20568-03 Respiration during prolonged hypercapnia (rats)
R23HL-20576-01 Airway turbulence and pulmonary oxygen exchange
** R01HL-20652-01 Sites of leakage in pulmonary edema (dogs)
R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
R01HL-21117-01 Altitude adaptation in chronic lung disease (human)
R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
** R23HL-21405-01 Respiratory muscles in regulation of infant breathing (human)
R01HL-21444-02 Pulmonary mechanics during postnatal development (human)
M P01HL-21584-02 Respiratory mechanics in normal and abnormal states
P01HL-21584-02 0001 Respiratory mechanics in normal and abnormal states - Engineering analysis of lung deformation (human, animals)
P01HL-21584-02 0002 Respiratory mechanics in normal and abnormal states - Lung mechanics--Regional deformation and ventilation (dogs)
P01HL-21584-02 0003 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on ventilation and respiratory mechanics in man
** P01HL-21584-02 0004 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on respiratory mechanics (dogs)
P01HL-21584-02 0006 Respiratory mechanics in normal and abnormal states - Respiratory mechanics in health and disease (human, pigs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R23HL-21943-01 Capillary morphology in pulmonary edema (dogs)
R01HL-21948-01 Capillary, tissue volume and lymph flow in lung edema (sheep, cattle)
R01HL-22022-01 Respiratory muscle dysfunction in respiratory failure (human)
** R01HL-22178-01 Lung airway properties by acoustic impulse reflection
R01HL-22313-01 Lung elastic recoil--Age and disease (human)
R01HL-22415-01 Mechanisms responsible for disease severity in asthma (human)
R01HL-22446-01 Chemical and functional studies of low copper in lung (pigs)
R01HL-22622-01 Sleep apnea and desaturation-mechanisms and incidence (human)
R01HL-22723-01 The morphologic basis of airflow obstruction (human)
R01HL-22844-01 Phrenic nerve pacing--Noninvasive diaphragm analysis (human, dogs)
** R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)
** R23HL-22920-01 Dynamic airway behavior (dogs)
** R23HL-22933-01 Transvascular fluid and protein exchange in the lung (sheep)
R01HL-23015-01 Mechanisms of hypo-oncotic pulmonary edema (human, dogs)
R01HL-23981-01 Acute alveolar injury (dogs)
R01HL-23985-01 Role of the diaphragm in regional lung mechanics (dogs)
** N01HR-32900-09 Pilot study to standardize the measurement of 'closing volume' (human)
** N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)
N01HR-32903-11 Pilot study to standardize the measurement of 'closing volume' (human)
N01HR-62901-04 Measure pulmonary function in infants and children (also dogs, rabbits)
N01HR-62910-02 Fibroprotein networks of pulmonary alveolar wall (human)

RESPIRATORY FUNCTION, VALSALVA'S MANEUVER

P50HL-19170-02 0008 Harvard pulmonary SCOR--Chronic diseases of the airways - Multiple-transient artificial coughing (dogs, human)
R01HL-19827-02 Role of the upper airways in the control of breathing (human, cats, dogs)
R01HL-22506-01 Hemodynamics of the clinical hypertensions

RESPIRATORY GAS ANALYZERS*

** P50HL-14218-07 0013 Pulmonary SCOR--Newborn lung center - Longitudinal study of ROS--Monitoring fetal PO2 and PCO2 during labor (human)
R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
P01HL-17731-04 0006 Physiological basis of pulmonary disease - Ventilation-perfusion ratios (human, dogs)
P50HL-19187-02 0009 Pediatric pulmonary SCOR--Hyaline membrane disease - Non-invasive measurement and monitoring of arterial oxygen tension (dogs, sheep)
** R01HL-20351-02 A self-calibrating in vivo blood gas monitor (dogs, infants)
R01HL-22636-01 Newborn lung function during mechanical ventilation (human)

RESPIRATORY GAS ANALYZERS, OXIMETRY*

SEE ALSO HEART DISORDERS DIAGNOSIS, FICK METHOD*
** R01HL-18710-02 Non-invasive reflection oximetry in peripheral tissue (dogs)

RESPIRATORY GAS CONSUMPTION, OXYGEN CONSUMPTION

R01HL-02228-24 Respiration, circulation, and heat regulation in exercise (bird, mammals)
R01HL-03181-21 0025 Hemodynamics as applied to surgical problems - Vascular stenosis (dogs)
R01HL-05806-18 Analysis of antiarrhythmic agents (dogs, rabbits)
** R01HL-05883-18 0008 Reflex control of resistance and capacitance vessels - Oxygen consumption of the chronically denervated dog heart
** P01HL-06285-18 0134 Cardiovascular-respiratory physiology and biochemistry - Placental transfer in growth retarded fetuses (lambs)
P01HL-07896-15 0009 Environmental biomedical research program - Decompression sickness and computation of safe diving tables (human, animals)
P01HL-07896-15 0048 Environmental biomedical research program - Respiratory performance in divers at 1400 FSW
P01HL-07896-15 0050 Environmental biomedical research program - Fundamental decompression concepts using the rat animal model
P01HL-07896-15 0052 Environmental biomedical research program - Effects of hypoxia on cerebral function
P01HL-07896-15 0058 Environmental biomedical research program - Lung synthesis of disaturated phosphatidylcholine (rats, dogs, bats)
** P01HL-07896-15 0061 Environmental biomedical research program - Oxygen cost of breathing during graded exercise (human)
P01HL-07896-15 0063 Environmental biomedical research program - Oxygen toxicity (baboons)
R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
P01HL-08805-15 0047 Regulation of ventilation and pulmonary circulation - Extracranial metabolic control of ventilation (dogs, goats)
** P01HL-10436-13 0002 A multidisciplinary study of congenital heart disease - Myocardial performance, metabolism and ultrastructure (human, cats, rats)
P01HL-10539-12 0064 Pathophysiology of circulation - Exercise physiology and pathophysiology (human)
P01HL-10539-12 0065 Pathophysiology of circulation - Physiologic correlates of relaxation (human)
P01HL-10539-12 0068 Pathophysiology of circulation - Acute and chronic cardiomyopathies (mice, dogs, hamsters, human)
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
** P01HL-11310-12 0068 Mechanisms of cardiovascular disease - Pharmacological intervention and myocarcial oxygen consuption (human, dogs)
P01HL-11351-12 0006 Cellular and molecular mechanisms of myocardial function - Molecular physiology and energetics of muscle (frogs)
** P01HL-11351-12 0021 Cellular and molecular mechanisms of myocardial function - Muscle energetics (frogs)
P01HL-11351-12 0022 Cellular and molecular mechanisms of myocardial function - Energetic sequelae of shortening--Myothermal and biochemical (frogs)
P01HL-11351-12 0023 Cellular and molecular mechanisms of myocardial function - Energetics of mammalian muscle (rats)
R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
P01HL-12738-10 0069 Physiologic pharmacology and its clinical applications - Blood rheology in coronary heart disease (dogs)
P01HL-12738-10 0122 Physiologic pharmacology and its clinical applications - Coronary perfusion of beating and fibrillating hearts (dogs)
R01HL-12777-09 Mechanisms in cardiac performance (dogs, human)
R01HL-12997-07 Myocardial defects induced by potassium depletion (human, rats, cats)
P01HL-13108-09 0020 Clinical heart transplantation - Autonomic neural studies in the denervated heart (human)
R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
P01HL-13330-08 0059 Mechanical circulatory support - Physiologic evaluation of circulatory assistance (cattle)
R01HL-13634-08 Renal hypertension in pregnancy (sheep)
P01HL-13737-07 0027 Assisted circulation - Optimization of cardiac assistance (dogs)
R01HL-13921-07 The lung as a metabolic organ (animals)
P50HL-14187-07 0015 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pathophysiologic responses of pulmonary capillary bed (dog, human)
P50HL-14217-08 0057 Specialized center of research in thrombosis - Pharmacology--Platelet biochemistry (human, animal)
P01HL-14388-07 0154 Regulation of the circulation in pathological states - Energetics of smooth muscle contraction (rats)
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
P01HL-14985-07 0008 Adaptation to hypoxia - Ventilatory drive and exercise capacity (human, dogs)
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
P01HL-15835-06 0018 Study of muscles related to heart disease - Pharmacology of excitation coupling in muscle (frog, barnacles)
** R01HL-15983-04 Regional myocardial blood flow (dogs)
R01HL-16292-05 0002 Surgery and non-obstructive coronary insufficiency - Effects of hypothermia during cardiopulmonary bypass (dogs)
** R01HL-16292-05 0009 Surgery and non-obstructive coronary insufficiency - Exercise and supply-demand balance (human)
** R01HL-16292-05 0018 Surgery and non-obstructive coronary insufficiency - Unavoidable subendocardial perfusion caused by venting and hypothermia (dogs)
R01HL-16292-05 0019 Surgery and non-obstructive coronary insufficiency - Distortion of subendocardial vessels in infant hearts (dogs)
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
P01HL-16851-04 0009 Human red cell membrane in health and disease - Blood cell properties in circulatory regulation (dogs, rabbits)
P01HL-16910-05 0002 Regulation of the peripheral circulation - Coronary circulation (dogs)
P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)
R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
R01HL-17403-03 Metabolic control of cardiac output (dogs)
R01HL-17459-03 Myocardial ischemia (dogs)
R01HL-17628-03 Pulsatile pressure-flow dynamics (dogs)
P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human)
P50HL-17667-04 0012 Study of ischemic heart disease - Biochemistry of normal and ischemic heart--Glycolysis (rats)
P50HL-17670-04 0022 Study of ischemic heart disease - Myocardial metabolism in hypoxia and recover (rabbit, toad, dog)
P50HL-17682-04 0005 Study of ischemic heart disease - Regional myocardial perfusion deficits and segmental contraction disorders in man
P50HL-17682-04 0018 Study of ischemic heart disease - Biochemistry of ischemia--Heart cell and organ culture (mice, rats, cattle)
R01HL-17736-04 Metabolic change during cardiac ischemia (rats, dogs)
R01HL-17808-03 Effect of altered oxygen affinity on oxygen transport (human, rats)
** P01HL-17813-04 0007 Lung disease and the oxygenation of blood and tissue - Studies on the function of myoglobin (dogs)
R01HL-17932-04 Blood flow regulation in muscle (cats)
R01HL-17967-04 Limiting factors in oxygen uptake in the lung
** P01HL-18708-03 0009 Oxygen, energy and contractility in cardiac tissue - Regulation of oxygen utilization of cardiac tissue (rats, rabbits)
** P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-18933-03 Energy output and efficiency of left ventricle (dog)
R01HL-18976-03 Blood pressure control--Relation to behavioral stress (human, dog)
P50HL-19170-02 0004 Harvard pulmonary SCOR--Chronic diseases of the airways - Exercise, increased ventilation effect on airway exposure and responses (rodent)
** P50HL-19190-02 0007 Pulmonary SCOR--Pathophysiology, management of IROS - Asphyxia--Cerebral metabolism (dog, rat)
** R01HL-19299-03 Myoglobin and oxygen supply to heart and muscle cells (rats, pigeons)
R01HL-19461-03 Myocardial energetics in hypertrophy and heart failure (rabbits)
P01HL-19737-02 0006 Cellular and molecular aspects of respiratory physiology - Tissue oxygenation and mitochondrial respiratory activity (sheep)
R01HL-20080-02 Surgically induced myocardial edema (dogs)
R01HL-20226-02 Cardiac bypass and coronary collateral physiology (dogs)
R01HL-20286-02 Interventions to improve cardiac function in ischemia (dogs)
R01HL-20388-03 Regulation of protein turnover in diabetic heart (rat)
R01HL-20401-03 Relationship of insulin to catechol cardiomyopathy (rabbit, pig)
R01HL-20476-03 Effects of diabetes on cardiac performance (rat)
R01HL-20484-03 Effects of diabetes on cardiac function and metabolism (rats)
P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
R01HL-20607-02 Tissue analysis by mass spectrometer (dogs)
R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
** R01HL-20782-01 Coronary flow regulation by adenosine (rats, dogs)
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)
P60HL-20985-01 0006 Northern California sickle cell center - Antisickling properties of imidoesters (human, rats)
R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
** R01HL-21172-02 Regional oxygen consumption of heart and other organs (animals)
R01HL-21245-02 Influence of chronic exercise on hypertension (rats, primates)
R23HL-21393-01 Cardiac adaptation to aging and stress (rats)
R23HL-21396-02 Isolation, growth and metabolism of type 1 pneumocytes (rabbits)
R01HL-21482-01 Cardiac function and metabolism in diabetes (rats)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-21500-02 Performance of respiratory muscles under stress (dogs)
** R01HL-21570-01 The mechanical basis of myocardial energetics (cats)
R23HL-21783-01 Ionic control of contractility in anoxic myocardium (rabbits, rats)
R01HL-21851-01 Cerebral microcirculation in experimental hypertension (cats, rabbits)
R23HL-21990-01 Accuracy of the ventilatory response to exercise (dogs)
R01HL-22154-01 Cardiac adaptation to physical training (dog)
** R01HL-22315-01 Intraoperative cardiac oxygen supply-demand (dogs, rabbits, rats)
R01HL-22329-01 Active prosthetic myocardium--Effects on LV function (dogs)
** R01HL-22517-01 Engineering development of an ultrasonic ventilometer (human)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
** P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R23HL-22621-01 Blood cell-mediated pulmonary (human)
R01HL-22661-01 Chronic total cardiopulhonary mechanical substitution (sheep)
R01HL-22828-01 Adenosine and catecholamine interaction in the heart (rats)
R01HL-23166-01 Pathology of mitochondria in ischemic myocardium (rats, cattle)
R01HL-23205-01 Contraction of pulmonary vascular smooth muscle (cat)
R01HL-23206-01 Repetitive exercise and cardiac enlargement (dogs)
R01HL-23240-01 Pulmonary vascular muscle metabolism and contractility (rats, cattle)

RESPIRATORY GAS LEVELS

SEE ALSO ENVIRONMENTAL CHAMBER CONTROLLED, HYPERBARIC FACILITY
SEE ALSO INJURIES, OYSBARISM
SEE ALSO RESPIRATORY GAS ANALYZERS*
P01HL-06285-18 0136 Cardiovascular-respiratory physiology and biochemistry - Fetal microcirculation in utero (rabbits, lambs)
P01HL-07896-15 0009 Environmental biomedical research program - Decompression sickness and computation of safe diving tables (human, animals)
P01HL-07896-15 0033 Environmental biomedical research program - Breathing mechanism in birds
P01HL-08682-15 0038 Regulation of the cardiovascular system - Control of pulmonary circulation (dogs)
M P01HL-08805-15 Regulation of ventilation and pulmonary circulation
P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
P01HL-08899-14 0029 Tolerance to respiratory gases in health and disease - Isobaric gas counter diffusion phenomena (human, pigs)
** P01HL-08899-14 0040 Tolerance to respiratory gases in health and disease - Metabolic gas influence on brain vascular tissue (animals)
** P01HL-08899-14 0041 Tolerance to respiratory gases in health and disease - Blood gas transport and brain circulatory control (human)
P01HL-08899-14 0052 Tolerance to respiratory gases in health and disease - Oxygen effects on auditory and vestibular function (human, guinea pigs)
P01HL-08899-14 0074 Tolerance to respiratory gases in health and disease - Biomathematical analysis of isobaric gas exchange and bubble formation
R01HL-09609-11 Lung volume and breathing mechanics during anesthesia (human)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
R01HL-12564-09 Control of respiration and blood gases (human, dog)
R01HL-12614-09 Microcirculatory control mechanisms and hypertension (bats, rats)
R01HL-13233-08 Cardiorespiratory control in exercise (human)
R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)
P01HL-14414-07 0003 Environmental influences on cardiorespiratory and cellular functions - Exposure to abnormal gaseous environments (human, dogs, rabbits)
** P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
R01HL-14495-05 Solid and structural mechanics of lungs (mammals)
P01HL-14985-07 0015 Adaptation to hypoxia - Pregnancy at high altitude (human, animals)
P01HL-14985-07 0017 Adaptation to hypoxia - Core laboratories
R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
R01HL-16390-05 Cardiopulmonary control coupling in exercise (dogs)
P60HL-17292-04 0029 Vermont Lung Center Computer assisted pre-operative evaluation (human)
P60HL-17292-04 0031 Vermont Lung Center Regional respiratory computer network
R01HL-17355-04 Pulmonary vascular adjustments in circulatory collapse (dogs, rats)
R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
R01HL-17503-03 Vascular bubbles in decompression sickness (minipig, dog, goat)
R01HL-17578-04 Exercise performance in children with heart disease
P50HL-17655-04 0003 Study of ischemic heart disease - Cardiopulmonary resuscitation (human, dog)
** P50HL-17655-04 0014 Study of ischemic heart disease - Blood flow and gas tension in myocardial ischemia and infarction (dog, monkey)
P50HL-17667-04 0039 Study of ischemic heart disease - Core human investigative laboratories
R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
R01HL-18022-03 Role of multicomponent diffusion in gas exchange (avian eggs)
R01HL-18371-03 Pulmonary hypertension and ventilation pathophysiology (dogs)
R01HL-18762-03 Post-traumatic pulmonary insufficiency (dogs)
P50HL-19185-02 0009 Pulmonary SCOR--Neonatal respiratory distress syndromes - Nasal continuous positive airway pressure in hyaline membrane disease (human)
** R01HL-19352-03 Respiratory heat and water loss in neonates
R01HL-19410-03 Dynamic interrelations underlying exercise hyperpnea (human)
** P01HL-19737-02 0005 Cellular and molecular aspects of respiratory physiology - Interaction of respiratory exchanges and blood gas parameters (human, animals)
** P01HL-19737-02 0011 Cellular and molecular aspects of respiratory physiology - Chemical and metabolic factors on peripheral chemoreceptor activity (cats)
** R01HL-20607-02 Tissue analysis by mass spectrometer (dogs)
P01HL-20994-02 0009 Dynamics of neutrophil elastase in the lung - Biosynthesis and degradation of elastin in emphysema (human, hamsters)
R23HL-21539-02 Mechanical properties of isolated small bronchioles (rabbits)
R23HL-21943-01 Capillary morphology in pulmonary edema (dogs)
R01HL-22327-01 Transport of arterial blood gases through skin (swine)
** R01HL-22636-01 Newborn lung function during mechanical ventilation (human)
R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))
R01HL-22843-01 Pulmonary physiology in liquid ventilation (lambs)
R01HL-23239-01 Functional characteristics of pulmonary vascular smooth muscle (dogs)

RESPIRATORY GAS LEVELS, BOHR EFFECT

R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
R01HL-13531-06 Coboglobins--Cobalt substituted myo- and hemoglobins
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
P60HL-15157-07 0012 Comprehensive center for sickle cell disease - Sickling and intracellular pH (human)
** P01HL-15194-07 0006 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Velocity of Bohr effect in erythrocytes (human)
P01HL-16833-04 0003 Hemoglobin and red cell system in hemoglobinopathies - Oxygen binding curves and equilibria (human)
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase

RESPIRATORY GAS LEVELS, CARBON DIOXIDE TENSION

SEE ALSO RESPIRATORY GAS LEVELS, BOHR EFFECT
SEE ALSO RESPIRATORY GAS LEVELS, HYPERCAPNIA
SEE ALSO RESPIRATORY GAS LEVELS, HYPOCAPNIA
P01HL-06285-18 0128 Cardiovascular-respiratory physiology and biochemistry - Pulmonary circulation in fetal lambs in utero
P01HL-06285-18 0129 Cardiovascular-respiratory physiology and biochemistry - Pulmonary microcirculation in the fetus and neonate (lambs)
P01HL-06285-18 0147 Cardiovascular-respiratory physiology and biochemistry - Metabolic regulation of cerebral microcirculation (cats)
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry Structure and function of vascular chemoreceptors (cats, rats)
P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry Renal tubular secretion of hydrogen ion (animals)
P01HL-07896-15 0030 Environmental biomedical research program - Narcosis caused by inert gases at raised pressures (human, animals)
P01HL-07896-15 0043 Environmental biomedical research program - Effect of hyperbaric oxygen on the lung (human, rabbits)
P01HL-07896-15 0048 Environmental biomedical research program - Respiratory performance in divers at 1400 FSW
P01HL-07896-15 0055 Environmental biomedical research program - Cerebral blood flow by Xenon-133 inhalation (human)
P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
** P01HL-08899-14 0018 Tolerance to respiratory gases in health and disease - Effects of respiratory gases at extreme pressures (human)
P01HL-08899-14 0023 Tolerance to respiratory gases in health and disease - Hypoxia and hyperoxia in respiratory response in regards to PCO2 (human)
P01HL-08899-14 0038 Tolerance to respiratory gases in health and disease - Brain vessels change in alveolar arterial gas tensions (human, monkeys)
** P01HL-08899-14 0039 Tolerance to respiratory gases in health and disease - Dose-response studies of oxygen on CO2 reactivity in brain vessels (human)
P01HL-08899-14 0055 Tolerance to respiratory gases in health and disease - Oxygen effects on organ functions--Extension of tolerance
P01HL-10342-13 0011 The integrated function of respiration and circulation - Control of respiration 1--Peripheral chemoreceptor studies (cats)
P01HL-10342-13 0026 The integrated function of respiration and circulation - Control of respiration--Characterization of the aortic body (cats)
P01HL-11678-11 0009 Cardiovascular dynamics and their control - Control of respiration (cat, human)
** P01HL-12738-10 0124 Physiologic pharmacology and its clinical applications - Counterpulsation on myocardial ischemia measured by carbon dioxide tension (dogs)
P50HL-14153-07 0017 Johns Hopkins Lung Center--Chronic diseases of airways - Collateral ventilation and pulmonary interdependence (pig, dog, human)
P50HL-14218-07 0013 Pulmonary SCOR--Newborn lung center - Longitudinal study of RDS--Monitoring fetal PO2 and PCO2 during labor (human)
P50HL-14218-07 0018 Pulmonary SCOR--Newborn lung center - Whole body buffering in acute hypercapnia (dogs)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
** P01HL-14414-07 0004 Environmental influences on cardiorespiratory and cellular functions - Role of diffusion in gas exchange (chicken egg)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
P01HL-14580-07 0003 Program project in respiratory mechanics - Chest wall mechanics and respiratory control (human, dogs)
** R01HL-14870-06 Dynamics of oxygen and carbon dioxide regulation (animals)
P01HL-14985-07 0002 Adaptation to hypoxia - Oxygen transport in man at high altitude
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
P50HL-15061-07 0013 Response of lung to injury - Exchange transfusion in infants with respiratory distress syndrome (human, sheep)
P01HL-15194-07 0009 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Diffusion and erythrocytes reaction rates (human, dogs)
** P01HL-15194-07 0018 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation, metabolic demand and vasodilatory reserve (human, dogs)
P01HL-15194-07 0020 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation in arteriographically normal arteries (human)
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
R01HL-15810-06 Electrolyte physiology and respiratory acid-base (dogs)
P60HL-15999-05 0021 Miami comprehensive sickle cell center - Diphosphonates--Erythrocyte calcium loading, maturation (human, chick embryo)
R01HL-16463-05 Localization of airways obstruction and responses
P01HL-16833-04 0009 Hemoglobin and red cell system in hemoglobinopathies - Rheological studies of sickled cells (human)
P01HL-16878-05 0001 Control of ventilation in health and disease - Ability of asthmatics to detect added resistive and elastic loads
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P50HL-17655-04 0014 Study of ischemic heart disease - Blood flow and gas tension in myocardial ischemia and infarction (dog, monkey)
P50HL-17670-04 0022 Study of ischemic heart disease - Myocardial metabolism in hypoxia and recover (rabbit, toad, dog)
P01HL-17731-04 0010 Physiological basis of pulmonary disease - Gas exchange kinetics (dogs)
P50HL-19187-02 0001 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Changes in lung mechanics and gas exchange (monkeys)
R01HL-19410-03 Dynamic interrelations underlying exercise hyperpnea (human)
R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
P01HL-19737-02 0011 Cellular and molecular aspects of respiratory physiology - Chemical and metabolic factors on peripheral chemoreceptor activity (cats)
R01HL-20122-02 Operational mechanisms of airway receptors (dogs, pigs)
R01HL-20399-03 Vascular control in experimental diabetes mellitus (dog)
P01HL-21016-02 0007 Sickle cell anemia and other hemoglobinopathies - Cellular determinants of red cell sickling
R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
R01HL-21851-01 Cerebral microcirculation in experimental hypertension (cats, rabbits)
R23HL-21901-01 Hypertension, microvascular control and exercise (rats)
R01HL-22622-01 Sleep apnea and desaturation-mechanisms and incidence (human)
** R23HL-22932-01 Effect of carbon dioxide on local gas exchange (dogs)
R23HL-22975-01 Dynamics of autoregulation of muscle blood flow (dogs)
R01HL-23140-01 Determinants of irreversible ischemic injury in heart (dog, rat)
R01HL-23604-01 Hepatic microvascular regulatory mechanisms (rat)
** R01HL-23982-01 Control of coronary flow by carbon dioxide tension (dogs)

RESPIRATORY GAS LEVELS, CYANOSIS

SEE ALSO HEMOPROTEINS, METHEMOGLOBINEMIA
P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
R01HL-18328-03 Hemoglobin function and tissue oxygenation (human, dogs)
P01HL-21016-02 0015 Sickle cell anemia and other hemoglobinopathies - EPR study of NO derivatives of Hb Beth Israel (human)

RESPIRATORY GAS LEVELS, HYPERCAPNIA

R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
P01HL-06285-18 0125 Cardiovascular-respiratory physiology and biochemistry - Myocardial function in the fetal and neonatal lamb
P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
R01HL-08789-11 Respiratory muscles and ventilatory control in man (and dogs)
P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
** P01HL-08899-14 0014 Tolerance to respiratory gases in health and disease - Cellular and renal responses to hypercapnia and hypocapnia (dogs)
R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
P01HL-10342-13 0011 The integrated function of respiration and circulation - Control of respiration 1--Peripheral chemoreceptor studies (cats)
P01HL-10342-13 0026 The integrated function of respiration and circulation - Control of respiration--Characterization of the aortic body (cats)
R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys)
R01HL-12564-09 Control of respiration and blood gases (human, dog)
R01HL-12614-09 Microcirculatory control mechanisms and hypertension (bats, rats)
R01HL-13233-08 Cardiorespiratory control in exercise (human)
R01HL-13885-08 9001 Cystic fibrosis and pulmonary disease - Pulmonary function core facility (infants, children)
R01HL-13888-15 Regulation of respiration
** P50HL-14218-07 0018 Pulmonary SCOR--Newborn lung center - Whole body buffering in acute hypercapnia (dogs)
P01HL-14388-07 0155 Regulation of the circulation in pathological states - Cardiopulmonary afferent activity, carotid chemo-baroreceptor reflexes
P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
P01HL-14985-07 0013 Adaptation to hypoxia - Chronic mountain sickness (men)
** R01HL-15810-06 Electrolyte physiology and respiratory acid-base (dogs)
R01HL-16022-05 Determinants of the ventilatory response to hypoxia (goats, cats)
R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
R01HL-17314-04 Effects of anesthesia and loading on respiration (human, cats)
R01HL-17711-05 Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs)
P01HL-17813-04 0006 Lung disease and the oxygenation of blood and tissue - Assessment of respiratory muscle contractile force (human, dogs)
R01HL-17903-03 Regional circulatory responses to hypoxia (rats, cats, rabbits)
R01HL-18007-05 Neural mechanisms controling motor act of breathing (cats, human)
R01HL-18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)
R01HL-18489-03 Hemodynamic interactions of vasoactive chemicals (rats)
P50HL-19185-02 0007 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sodium bicarbonate and albumin in resuscitation of preterm infants (human)
** P50HL-19187-02 0011 Pediatric pulmonary SCOR--Hyaline membrane disease - Effects of hypoxia and hypercapnia on developing nervous system (monkey, human)
** P50HL-19190-02 0006 Pulmonary SCOR--Pathophysiology, management of IROS - Asphyxia--Respiratory control (dogs)
P50HL-19190-02 0007 Pulmonary SCOR--Pathophysiology, management of IRDS - Asphyxia--Cerebral metabolism (dog, rat)
R01HL-19248-03 Breathing pattern variation and mechanical influences
R01HL-19275-03 Characterization of collateral blood vessels (dogs)
** R01HL-20568-03 Respiration during prolonged hypercapnia (rats)
R01HL-20574-03 Brain stem integration of chemoreceptor activity (cats)
R01HL-20719-02 Cold induced pulmonary hypertension (cattle)
R01HL-20847-02 Respiratory neurochemical control (human, goats)
R01HL-20864-01 Postnatal maturation of cardiovascular regulatory system (minipig)
R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
** R01HL-22022-01 Respiratory muscle dysfunction in respiratory failure (human)
R01HL-22259-01 Modification of susceptibility to oxygen poisoning (rats)
R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)
R01HL-22650-01 Regulatory mechanisms of erythropoietin production (human, rats, mice)
R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)
R01HL-23601-01 Early hypoxia and development of respiratory control

RESPIRATORY GAS LEVELS, HYPOCAPNIA

** R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
** P01HL-08899-14 0014 Tolerance to respiratory gases in health and disease - Cellular and renal responses to hypercapnia and hypocapnia (dogs)
P01HL-08899-14 0039 Tolerance to respiratory gases in health and disease - Dose-response studies of oxygen on CO2 reactivity in brain vessels (human)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
** P01HL-14985-07 0002 Adaptation to hypoxia - Oxygen transport in man at high altitude
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
R01HL-15469-06 Human ventilatory adaptation (also, dogs, rats)
** R01HL-15810-06 Electrolyte physiology and respiratory acid-base (dogs)
R01HL-16463-05 Localization of airways obstruction and responses
R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
R01HL-21318-02 Mechanisms of emotions' asthma triggering effect (human)

RESPIRATORY GAS LEVELS, HYPOXIA

SEE ALSO CEREBROVASCULAR DISORDERS, BRAIN ISCHEMIA AND HYPOXIA
SEE ALSO HEART DISORDERS, CORONARY, MYOCARDIAL ISCHEMIA AND HYPOXIA
SEE ALSO HEMOPROTEINS, METHEMOGLOBINEMIA
SEE ALSO KIDNEY-CIRCULATORY DISORDERS, RENAL ISCHEMIA AND HYPOXIA
SEE ALSO RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION
SEE ALSO RESPIRATORY CIRCULATORY DISORDERS, PULMONARY ISCHEMIA AND HYPOXIA
SEE ALSO RESPIRATORY GAS LEVELS, CYANOSIS
R01HL-02228-24 Respiration, circulation, and heat regulation in exercise (bird, mammals)
R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
R01HL-05883-18 0002 Reflex control of resistance and capacitance vessels - Adenosine, adenine nucleotides and vascular smooth muscle (dog)
R01HL-05883-18 0007 Reflex control of resistance and capacitance vessels - Prostaglandins and skeletal muscle blood flow (dogs)
P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
** P01HL-06664-17 0036 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
** P01HL-06664-17 0043 Cardiopulmonary function in remediable vascular disease - Alveolar hypoxic vasoconstriction--Control and clinical significance (dog, human)
P01HL-08805-15 0006 Regulation of ventilation and pulmonary circulation - Adaptation of lungfish--Estivation
P01HL-08805-15 0025 Regulation of ventilation and pulmonary circulation - Pulmonary edema (rabbits)
P01HL-08805-15 0039 Regulation of ventilation and pulmonary circulation - Carotid body (cats)
** P01HL-08899-14 0033 Tolerance to respiratory gases in health and disease - Acid-base related influences of hypoxia (human)
R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
M P01HL-10342-13 The integrated function of respiration and circulation
** P01HL-10342-13 0011 The integrated function of respiration and circulation - Control of respiration 1--Peripheral chemoreceptor studies (cats)
P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
** P01HL-10342-13 0026 The integrated function of respiration and circulation - Control of respiration--Characterization of the aortic body (cats)
** P01HL-10342-13 0027 The integrated function of respiration and circulation - Control of respiration--Cardiovascular adjustment to hypoxia and carbon monoxide
P01HL-10436-13 0005 A multidisciplinary study of congenital heart disease - Pulmonary physiology in congenital heart disease (human)
P01HL-11678-11 0009 Cardiovascular dynamics and their control - Control of respiration (cat, human)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
R01HL-12564-09 Control of respiration and blood gases (human, dog)
R01HL-12614-09 Microcirculatory control mechanisms and hypertension (bats, rats)
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
R01HL-13029-09 Metabolic regulation of sugar transport (pigeons, rats)
R01HL-13134-07 Mechanism of chemoreceptor discharge (cats)
R01HL-13233-08 Cardiorespiratory control in exercise (human)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
R01HL-13841-16 Respiration during altitude acclimatization (goats, dogs, rats, rabbits)
R01HL-13885-08 9001 Cystic fibrosis and pulmonary disease - Pulmonary function core facility (infants, children)
R01HL-13888-15 Regulation of respiration
** P50HL-14138-05 0015 Center for research on atherosclerosis - Arterial wall--Intermediary metabolism, enzyme activity and bioenergetics
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
** P01HL-14414-07 0015 Environmental influences on cardiorespiratory and cellular functions - Control of the cardiovascular system (dogs)
** R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
P60HL-15160-07 0011 Center for sickle cell disease - Study of human sickle cells in an animal model (rats)
** R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
** R01HL-15469-06 Human ventilatory adaptation (also, dogs, rats)
R01HL-15498-06 Effects of physical training on heart (rats)
R01HL-15614-04 Heredity and oxygen--Effects on health of heart-lungs (South America)
R01HL-15810-06 Electrolyte physiology and respiratory acid-base (dogs)
P01HL-15832-06 0001 Chemical-structural predispositions to lung injury - Chemical composition of lung connective tissue proteins (human, animals)
P60HL-15999-05 0021 Miami comprehensive sickle cell center - Diphosphonates--Erythrocyte calcium loading, maturation (human, chick embryo)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number

P60HL-16008-06 0014 Wayne State University comprehensive sickle cell center - Zinc and red blood cell metabolism in sickle cell anemia (rats, human)
** R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
R01HL-16828-04 Gradient and transport of oxygen in tissue and organs (mammals)
R01HL-17403-03 Metabolic control of cardiac output (dogs)
R01HL-17452-04 Depolarization induced cardiac automaticity (human, animals)
** R01HL-17517-03 Arterial wall oxygen transport in atherosclerosis (rabbits, dogs)
** P50HL-17682-04 0007 Study of ischemic heart disease - Mechanisms of hypoxemia in myocardial infarction (human)
P01HL-17813-04 0007 Lung disease and the oxygenation of blood and tissue - Studies on the function of myoglobin (dogs)
R01HL-17826-04 Oxygen delivery to tissue (rat, dog)
** R01HL-17903-03 Regional circulatory responses to hypoxia (rats, cats, rabbits)
R01HL-18080-03 Extrinsic control of intestinal microcirculation (dogs)
R01HL-18206-04 Regulation of metabolism in oxygen deficient hearts (rats)
R01HL-18599-02 Cardiovascular pharmacology of ionophores (dogs)
R01HL-18601-01 Regulation of neurotransmitter release by adenosine (rats)
R01HL-18969-02 Arterial wall oxygenation (rabbits, dogs)
R01HL-19000-03 Irreversible myocardial injury (rats)
** R01HL-19082-01 Hypoxia-induced relaxation of vascular smooth muscle
R01HL-19248-03 Breathing pattern variation and mechanical influences
R01HL-19270-03 Effects of erythropoiesis on platelets and hemostasis (rats)
R01HL-19275-03 Characterization of collateral blood vessels (dogs)
R01HL-19298-03 Pulmonary hemodynamics (dogs, cats)
** R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
P01HL-19717-02 0004 Response of the lung to injury - Regulatory and physical-chemical properties of lung lysyl oxidase (animals)
P01HL-19717-02 0028 Response of the lung to injury - Compensatory growth of the lung following pneumonectomy (rabbits)
P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
P01HL-19737-02 0013 Cellular and molecular aspects of respiratory physiology - Cell metabolism analytical facility
R01HL-20153-02 Intracellular pH and myocardial electropharmacology (dogs, guinea pigs)
R01HL-20429-03 Study of effects of diabetes reactivity (miniature pigs, rats)
P01HL-20552-02 0003 The development and regression of cardiac hypertrophy - Muscle mechanics of the hypertrophied left ventricle (rats)
R01HL-20568-03 Respiration during prolonged hypercapnia (rats)
R01HL-20574-03 Brain stem integration of chemoreceptor activity (cats)
R01HL-20920-01 Control of hemoglobin synthesis (baboon)
R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
R01HL-21032-02 Injury, wall thickness, and arterial wall oxygenation (dogs, rabbits)
R01HL-21117-01 Altitude adaptation in chronic lung disease (human)
R01HL-21126-02 Exercise-induced bronchospasm in children
R01HL-21172-02 Regional oxygen consumption of heart and other organs (animals)
R01HL-21179-01 Volume regulation--Role of the membrane potential (amphiuma)
R23HL-21559-01 Oxygen supply and blood flow through aortic vasa vasorum (dogs)
R01HL-22231-02 Modulation of calcium control of cardiac myofibrils (rats)
** R23HL-22383-01 Biosynthesis--Response to oxygen depletion (human, primates, rats)
R01HL-22546-02 Baroreceptor reflex mechanisms in man
R01HL-22623-01 Polyamines cellular mediators of atherogenesis (human)
R01HL-22650-01 Regulatory mechanisms of erythropoietin production (human, rats, mice)
R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))
R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)
R01HL-22928-01 Systematic study of bronchial circulation (sheep)
R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)
** R01HL-23128-01 Cardiac contractility--Ischemia and hypoxia (rabbits, rats)
** R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)
** R01HL-23232-01 Effect of hypoxia on PVSM and its precursor cells
** R01HL-23601-01 Early hypoxia and development of respiratory control

RESPIRATORY GAS LEVELS, HYPOXIA, RESPIRATORY

SEE ALSO CONGENITAL ABNORMALITIES, RESPIRATORY DISTRESS SYNDROME
SEE ALSO ENVIRONMENT, STRESS, ALTITUDE
SEE ALSO INJURIES, ACCIDENTS, SUFFOCATION
SEE ALSO RESPIRATORY DISORDERS, RESPIRATORY INSUFFICIENCY (GENERAL)
SEE ALSO RESPIRATORY FUNCTION, HYPOVENTILATION (GENERAL)
SEE ALSO RESPIRATORY FUNCTION, HYPOVENTILATION, RESPIRATORY CENTER DYSFUNCTION
SEE ALSO RESPIRATORY GAS LEVELS, HYPOXIA NEONATORUM
SEE ALSO TOXICOLOGY, GAS POISONING, CARBON MONOXIDE
R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)
** P01HL-06664-17 0043 Cardiopulmonary function in remediable vascular disease - Alveolar hypoxic vasoconstriction--Control and clinical significance (dog, human)
** P01HL-08899-14 0008 Tolerance to respiratory gases in health and disease - Hypoxia in regards to respiratory and brain circulatory control (goats)
** P01HL-08899-14 0023 Tolerance to respiratory gases in health and disease - Hypoxia and hyperoxia in respiratory response in regards to PCO2 (human)
** P01HL-08899-14 0030 Tolerance to respiratory gases in health and disease - Dynamic characteristics of respiratory control components (human, cats)
P01HL-10342-13 0023 The integrated function of respiration and circulation - Carbon dioxide transport and CSF acid base balance (hogs, pigs)
** P01HL-10342-13 0024 The integrated function of respiration and circulation - Cytochrome P450 and physiological response to hypoxia (rats)
P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
P50HL-14187-07 0015 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pathophysiologic responses of pulmonary capillary bed (dog, human)
P01HL-14414-07 0003 Environmental influences on cardiorespiratory and cellular functions - Exposure to abnormal gaseous environments (human, dogs, rabbits)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
P60HL-15160-07 0015 Center for sickle cell disease - Lung function abnormalities in sickle cell hemoglobinopathies (human)
P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
R01HL-16022-05 Determinants of the ventilatory response to hypoxia (goats, cats)
R01HL-16784-03 Lung tissue and water volume (human, dogs)
** P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
R01HL-17314-04 Effects of anesthesia and loading on respiration (human, cats)
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
** R01HL-17711-05 Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs)
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)
R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
** R01HL-18145-03 Oxygen transport mechanisms in hypoxia (dogs, rats, rabbits)
R01HL-18191-04 Models of hypoxic pulmonary hypertension (cattle, minipigs)
R01HL-18630-03 Pulmonary hemodynamics in atelectasis and hypoxia (dogs)
** P50HL-19187-02 0011 Pediatric pulmonary SCOR--Hyaline membrane disease - Effects of hypoxia and hypercapnia on developing nervous system (monkey, human)
R01HL-19225-02 0001 Types and mechanims of pulmonary hypertension - Structural changes (human, animals)
R01HL-19225-02 0004 Types and mechanims of pulmonary hypertension - Structural changes in human pulmonary circulation (human, animals)
** R01HL-19449-03 Gas exchange in acute respiratory failure
P01HL-19717-02 0025 Response of the lung to injury - Role of oxygen in regulation of lung growth and development (rats)
** R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
R01HL-20122-02 Operational mechanisms of airway receptors (dogs, pigs)
R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
R01HL-20719-02 Cold induced pulmonary hypertension (cattle)
R01HL-20847-02 Respiratory neurochemical control (human, goats)
R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
** R01HL-21159-02 Pathophysiological effects of hypoxia (rats)
** R23HL-21168-01 Hypoxemic respiratory failure--Physiologic evaluation (human, dogs)
R01HL-21376-02 Blood-gas barrier solute and water transport (rabbits)
P01HL-21584-02 0003 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on ventilation and respiratory mechanics in man
R01HL-22296-01 Autonomic mechanisms in man
** R23HL-22621-01 Blood cell-mediated pulmonary (human)
R01HL-23209-01 Autonomic receptors of the pulmonary vasculature (mammals)
R01HL-23210-01 Biology of normal and hypertrophied pulmonary vessels (cat, human)
** R01HL-23224-01 Hypoxia and pulmonary vascular smooth muscle (rat, cat)
** N01HR-62942-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (humam)
** N01HR-62943-05 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62944-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62945-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62946-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62947-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)

RESPIRATORY GAS LEVELS, HYPOXIA FETAL

R01HL-01755-25 Fetal and neonatal cardiovascular function (sheep)
R01HL-03357-21 Humoral control of blood cell formation and release (rats, mice)
P01HL-06285-18 0132 Cardiovascular-respiratory physiology and biochemistry - Umbilical-placental circulatory responses (lambs)
P01HL-06285-18 0133 Cardiovascular-respiratory physiology and biochemistry - Decreased uterine blood flow and fetal development (lambs)
P01HL-06285-18 0136 Cardiovascular-respiratory physiology and biochemistry - Fetal microcirculation in utero (rabbits, lambs)
P01HL-06296-18 0005 Cardiovascular and pulmonary adaptation to stress - Regulation of ventricular performance (animals)
P01HL-10436-13 0015 A multidisciplinary study of congenital heart disease - Fetal and neonatal cardiovascular physiology (sheep)
R01HL-10834-09 Fetal and neonatal pulmonary circulation (goats)
R01HL-13634-08 Renal hypertension in pregnancy (sheep)
P50HL-14214-07 0029 Newborn lung center for hyaline membrane disease - The diving reflex--Perinatal asphyxia, pulmonary ischemia and HMO (sheep)
P50HL-14218-07 0006 Pulmonary SCOR--Newborn lung center - Biochemical characteristics of the lung in RDS (human, sheep)
P50HL-14218-07 0014 Pulmonary SCOR--Newborn lung center - Longitudinal study of RDS--Monitoring fetal breathing movements (human)
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
P50HL-17682-04 0010 Study of ischemic heart disease - Core clinical enzyme laboratory (human, mice, dogs, rats)
P50HL-17682-04 0018 Study of ischemic heart disease - Biochemistry of ischemia--Heart cell and organ culture (mice, rats, cattle)
P50HL-17682-04 0023 Study of ischemic heart disease - Core cell and organ culture laboratory (mice)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
P50HL-19185-02 0003 Pulmonary SCOR--Neonatal respiratory distress syndromes - Factors affecting formation and release of pulmonary surfactant in fetal lambs
P50HL-19185-02 0006 Pulmonary SCOR--Neonatal respiratory distress syndromes - Evaluation of risk factors in neonatal respiratory distress (human, sheep)
P50HL-19185-02 0007 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sodium bicarbonate and albumin in resuscitation of preterm infants (human)
** P50HL-19190-02 0007 Pulmonary SCOR--Pathophysiology, management of IRDS - Asphyxia--Cerebral metabolism (dog, rat)
P01HL-19737-02 0006 Cellular and molecular aspects of respiratory physiology - Tissue oxygenation and mitochondrial respiratory activity (sheep)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-23601-01 Early hypoxia and development of respiratory control

RESPIRATORY GAS LEVELS, HYPOXIA NEONATORUM

SEE ALSO CONGENITAL ABNORMALITIES, RESPIRATORY DISTRESS SYNORME

R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
P01HL-10436-13 0015 A multidisciplinary study of congenital heart disease - Fetal and neonatal cardiovascular physiology (sheep)
R01HL-10834-09 Fetal and neonatal pulmonary circulation (goats)
P50HL-14214-07 0032 Newborn lung center for hyaline membrane disease - Evoked electroencephalographic potential in infants with HM0 (human)
R01HL-16022-05 Oeterminants of the ventilatory response to hypoxia (goats, cats)
** P50HL-19185-02 0006 Pulmonary SCOR--Neonatal respiratory distress syndromes - Evaluation of risk factors in neonatal respiratory distress (human, sheep)
P50HL-19185-02 0007 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sodium bicarbonate and albumin in resuscitation of preterm infants (human)
M P50HL-19190-02 Pulmonary SCOR--Pathophysiology, management of IROS
** P50HL-19190-02 0006 Pulmonary SCOR--Pathophysiology, management of IROS - Asphyxia--Respiratory control (dogs)
** P50HL-19190-02 0007 Pulmonary SCOR--Pathophysiology, management of IROS - Asphyxia--Cerebral metabolism (dog, rat)
** R01HL-19352-03 Respiratory heat and water loss in neonates
R01HL-19752-03 Phospholipid synthesis by fetal lung in organ culture (rats)
R01HL-21176-02 Phospholipid exchange proteins in lung tissue (lambs)
R01HL-22636-01 Newborn lung function during mechanical ventilation (human)

RESPIRATORY GAS LEVELS, OXYGEN TENSION

SEE ALSO RESPIRATORY ASSIST ANO OXYGEN AOMINISTRATION, HYPERBARIC OXYGENATION
SEE ALSO RESPIRATORY ASSIST ANO OXYGEN AOMINISTRATION, HYPEROXIA
SEE ALSO RESPIRATORY GAS ANALYZERS, OXIMETRY*
SEE ALSO RESPIRATORY GAS LEVELS, BOHR EFFECT
SEE ALSO RESPIRATORY GAS LEVELS, CYANOSIS
SEE ALSO RESPIRATORY GAS LEVELS, HYPOXIA

R01HL-04612-20 Feedback between red cell production and oxygen transport (rabbits, rats)
P01HL-06285-18 0128 Cardiovascular-respiratory physiology and biochemistry - Pulmonary circulation in fetal lambs in utero
P01HL-06285-18 0129 Cardiovascular-respiratory physiology and biochemistry - Pulmonary microcirculation in the fetus and neonate (lambs)
P01HL-06285-18 0130 Cardiovascular-respiratory physiology and biochemistry - Ouctus arteriosus--Morphological development (human, lambs)
P01HL-06285-18 0145 Cardiovascular-respiratory physiology and biochemistry - Pulmonary, pleural and systemic microcirculation (animals)
** P01HL-06285-18 0178 Cardiovascular-respiratory physiology and biochemistry - Biochemical regulation of hypertrophy (rats, rabbits)
** P01HL-06285-18 0179 Cardiovascular-respiratory physiology and biochemistry - Regulation of myocardial cell growth (rats, chick embryo)
P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
P01HL-06664-17 0010 Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
P01HL-07896-15 0019 Environmental biomedical research program - Hyperoxic myopia (human)
P01HL-07896-15 0030 Environmental biomedical research program - Narcosis caused by inert gases at raised pressures (human, animals)
P01HL-07896-15 0043 Environmental biomedical research program - Effect of hyperbaric oxygen on the lung (human, rabbits)
P01HL-07896-15 0062 Environmental biomedical research program - Vectorcardiograms during diving (human, dogs)
P01HL-08899-14 0033 Tolerance to respiratory gases in health and disease - Acid-base related influences of hypoxia (human)
** P01HL-08899-14 0038 Tolerance to respiratory gases in health and disease - Brain vessels change in alveolar arterial gas tensions (human, monkeys)
P01HL-08899-14 0055 Tolerance to respiratory gases in health and disease - Oxygen effects on organ functions--Extension of tolerance
P01HL-11678-11 0020 Cardiovascular dynamics and their control - Circulatory and pulmonary fluid dynamics during pulmonary edema
R01HL-11876-11 Regional myocardial blood flow and metabolism (dogs, swine)
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
** R01HL-13134-07 Mechanism of chemoreceptor discharge (cats)
P50HL-14153-07 0017 Johns Hopkins Lung Center--Chronic diseases of airways - Collateral ventilation and pulmonary interdependence (pig, dog, human)
** P50HL-14218-07 0013 Pulmonary SCOR--Newborn lung center - Longitudinal study of ROS--Monitoring fetal P02 and PC02 during labor (human)
P01HL-14388-07 0220 Regulation of the circulation in pathological states - Pharmacology of the coronary circulation in man
** P01HL-14414-07 0004 Environmental influences on cardiorespiratory and cellular functions - Role of diffusion in gas exchange (chicken egg)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)
** R01HL-14870-06 Oynamics of oxygen and carbon dioxide regulation (animals)
P01HL-14985-07 0013 Adaptation to hypoxia - Chronic mountain sickness (men)
P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
P50HL-15061-07 0013 Response of lung to injury - Exchange transfusion in infants with respiratory distress syndrome (human, sheep)
P60HL-15157-07 0011 Comprehensive center for sickle cell disease - Oevelopment of specific anti-sickling compound (human)
P60HL-15157-07 0012 Comprehensive center for sickle cell disease - Sickling and intracellular pH (human)
P60HL-15158-07 0016 Comprehensive sickle cell center - Biochemical studies in sickle cell anemia (human)
P60HL-15160-07 0011 Center for sickle cell disease - Study of human sickle cells in an animal model (rats)
P60HL-15160-07 0015 Center for sickle cell disease - Lung function abnormalities in sickle cell hemoglobinopathies (human)
P60HL-15162-07 0019 Comprehensive sickle cell center - RBC-Blood rheology in sickle cell anemia and related disorders (human, animal)
P60HL-15169-05 0018 Support for center for sickle cell disease - Studies on sickle cell disease (human, rats, dogs)
P01HL-15194-07 0009 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Oiffusion and erythrocytes reaction rates (human, dogs)
P01HL-15194-07 0020 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation in arteriographically normal arteries (human)
R01HL-15390-12 Regulation of blood flow in the microcirculation
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
** P60HL-15996-06 0010 Cincinnati comprehensive sickle cell center - Whole blood viscosity in sickle cell anemia (human)
P60HL-15999-05 0021 Miami comprehensive sickle cell center - Oiphosphonates--Erythrocyte calcium loading, maturation (human, chick embryo)
P01HL-16137-05 0008 Alveolar biology - Macromolecular events in pulmonary cells in toxic environments (animals)
R01HL-16643-02 Fluorocarbon emulsions as artificial blood (animals)
R01HL-16760-05 Oynamic control of coronary blood flow (dogs)
R01HL-16828-04 Gradient and transport of oxygen in tissue and organs (mammals)
P01HL-16833-04 0008 Hemoglobin and red cell system in hemoglobinopathies - Membrane associated phenomena in SS disease
P01HL-16833-04 0009 Hemoglobin and red cell system in hemoglobinopathies - Rheological studies of sickled cells (human)
P01HL-16833-04 0016 Hemoglobin and red cell system in hemoglobinopathies - Calcium-indiced membrane damage in Hb SS disease (human, animals)
R01HL-17091-05 Anesthetics and microvascular response to hemorrhage (rats)
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
P01HL-17421-05 0002 Regulation and exchange in the microcirculation - Metabolic and myogenic blood flow regulation in microcirculation (animals)
P01HL-17421-05 0004 Regulation and exchange in the microcirculation - Localization of flow regulation in the microcirculation (cats, human)
R01HL-17517-03 Arterial wall oxygen transport in atherosclerosis (rabbits, dogs)
P50HL-17655-04 0014 Study of ischemic heart disease - Blood flow and gas tension in myocardial ischemia and infarction (dog, monkey)
P50HL-17682-04 0007 Study of ischemic heart disease - Mechanisms of hypoxemia in myocardial infarction (human)
R01HL-18082-03 Erythrocyte phosphates and vertebrate gas transport (amphibians, reptiles)
P01HL-18208-04 0005 Center for the study of blood cell rheology - RBC deformability and capillary flow interrelations (human, mice)
R01HL-18292-04 Vasodilation and microvascular oxygen delivery (dog, hamster)
R01HL-18489-03 Hemodynamic interactions of vasoactive chemicals (rats)
P01HL-18708-03 0007 Oxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
R01HL-18969-02 Arterial wall oxygenation (rabbits, dogs)
R01HL-18984-01 P50 effect on exercise limit in stable angina (human)
R01HL-19082-01 Hypoxia-induced relaxation of vascular smooth muscle
P50HL-19187-02 0001 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Changes in lung mechanics and gas exchange (monkeys)
** P50HL-19187-02 0009 Pediatric pulmonary SCOR--Hyaline membrane disease - Non-invasive measurement and monitoring of arterial oxygen tension (dogs, sheep)
P50HL-19187-02 0010 Pediatric pulmonary SCOR--Hyaline membrane disease - Treatment, outcome of HMO--Continuous positive airway pressure (human, monkey)
R01HL-19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
R01HL-19218-03 Local regulation of coronary flow by prostaglandins (rabbits)
P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
R01HL-19270-03 Effects of erythropoiesis on platelets and hemostasis (rats)
R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
R01HL-19449-03 Gas exchange in acute respiratory failure
** P01HL-19737-02 0007 Cellular and molecular aspects of respiratory physiology - Average oxygen tension of tissue using radioisotopes (dogs)
** P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
P01HL-19737-02 0011 Cellular and molecular aspects of respiratory physiology - Chemical and metabolic factors on peripheral chemoreceptor activity (cats)
R01HL-20177-02 Effects of erythrocyte deformability on tissue perfusion (rats)
** R01HL-20354-02 Oirect determination of oxygen tension in the clinical environment (human, dogs)
R01HL-20605-02 Microvascular responses during intestinal absorption (rats)
P60HL-20985-01 0003 Northern California sickle cell center - Kinetics of sickling and clinical manifestations in sickling disorders (human)
R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)
** R01HL-21032-02 Injury, wall thickness, and arterial wall oxygenation (dogs, rabbits)
R01HL-21140-01 Studies of pulmonay alveolar macrophage function (rabbits)
R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
R23HL-21234-02 The regulation of cardiac hypertrophy (rabbits)
R23HL-21332-02 Pulsatile regulation of flow in the microcirculation (cats)
R23HL-21409-02 Perinatal control of the ductus arteriosus (sheep)
R01HL-21657-01 Regional non-ischemic myocardial hypoxia (dogs)
R23HL-21901-01 Hypertension, microvascular control and exercise (rats)
R01HL-22008-01 Left ventrivular calcium content and contractility (rats)
** R01HL-22113-02 Micro/macrovasculature in healing of foot lesions (human)
R01HL-22259-01 Modification of susceptibility to oxygen poisoning (rats)
** R01HL-22664-01 Regulation of myocardial cell growth (rats, guinea pigs)
R01HL-22815-01 Regional myocardial function after revascularization (dogs)
R23HL-22975-01 Oynamics of autoregulation of muscle blood flow (dogs)
R01HL-23140-01 Oeterminants of irreversible ischemic injury in heart (dog, rat)
R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)
R01HL-23604-01 Hepatic microvascular regulatory mechanisms (rat)
** R01HL-23982-01 Control of coronary flow by carbon dioxide tension (dogs)

RESPIRATORY GAS TRANSPORT

SEE ALSO CHEMICAL TRANSFER, HYOROGEN TRANSPORT

P01HL-08805-15 0006 Regulation of ventilation and pulmonary circulation - Adaptation of lungfish--Estivation

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
** P01HL-08899-14 0025 Tolerance to respiratory gases in health and disease - Effects of oxygen on cardiopulmonary gas transport functions (dogs)
P01HL-08899-14 0028 Tolerance to respiratory gases in health and disease - Inert gas exchange, oxygen influences-organs and tissues (human, rabbits, dogs)
P01HL-08899-14 0073 Tolerance to respiratory gases in health and disease - Biophysical mechanisms involved in isobaric gas counterdiffusion syndrome
** R01HL-12174-11 Ventilation/pertusion distribution in the lung (human, mammals)
R01HL-12879-09 0007 Pulmonary transport and metabolism in vivo - Effects of temperature changes on pulmonary transport
M P01HL-14414-07 Environmental influences on cardiorespiratory and cellular functions
** P01HL-14414-07 0003 Environmental influences on cardiorespiratory and cellular functions - Exposure to abnormal gaseous environments (human, dogs, rabbits)
** P01HL-14414-07 0004 Environmental influences on cardiorespiratory and cellular functions - Role of diffusion in gas exchange (chicken egg)
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
R01HL-15520-06 Total blood replacement by fluorocarbons and polyols (rats)
** R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
R01HL-16582-05 Artificial lungs (dogs)
R01HL-16916-04 0001 The role of albumins in lung water accumulation - Capillary permeability (dogs, human)
** R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
M P01HL-17731-04 Physiological basis of pulmonary disease
R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
** R01HL-19449-03 Gas exchange in acute respiratory failure
M P01HL-19737-02 Cellular and molecular aspects of respiratory physiology
** P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport
R23HL-21990-01 Accuracy of the ventilatory response to exercise (dogs)
** R01HL-22327-01 Transport of arterial blood gases through skin (swine)
** R01HL-22552-02 Abnormal alveolar permeability and lung disease (sheep)

RESPIRATORY GAS TRANSPORT, CARBON DIOXIDE TRANSPORT

** P01HL-10342-13 0014 The integrated function of respiration and circulation - Oxygen and carbon monxide transfer (human, dogs, sheep)
** P01HL-10342-13 0023 The integrated function of respiration and circulation - Carbon dioxide transport and CSF acid base balance (hogs, pigs)
P01HL-10342-13 0024 The integrated function of respiration and circulation - Cytochrome P450 and physiological response to hypoxia (rats)
** R01HL-14967-06 Chemoreceptor function in dynamic ventilatory control (human, dogs)
** P01HL-15194-07 0006 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Velocity of Bohr effect in erythrocytes (human)
R01HL-16390-05 Cardiopulmonary control coupling in exercise (dogs)
** P01HL-17731-04 0010 Physiological basis of pulmonary disease - Gas exchange kinetics (dogs)
** R01HL-19008-02 Carbon dioxide diffusion in lung and muscle tissues (dogs)

RESPIRATORY GAS TRANSPORT, OXYGEN TRANSPORT

R01HL-02228-24 Respiration, circulation, and heat regulation in exercise (bird, mammals)
R01HL-02799-22 Abnormal hemoglobins (human)
** R01HL-03290-22 Controls of cardiac and vascular smooth muscles (cats, rats, dogs)
** R01HL-04612-20 Feedback between red cell production and oxygen transport (rabbits, rats)
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
P01HL-06285-18 0145 Cardiovascular-respiratory physiology and biochemistry - Pulmonary, pleural and systemic microcirculation (animals)
** P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
R01HL-06950-17 Red cell metabolism (human, vertebrates)
** P01HL-07896-15 0033 Environmental biomedical research program - Breathing mechanism in birds
R01HL-08299-16 Molecular biology of hemerythrin and hemocyanin (invertebrates)
** P01HL-10342-13 0014 The integrated function of respiration and circulation - Oxygen and carbon monxide transfer (human, dogs, sheep)
P01HL-11310-12 0061 Mechanisms of cardiovascular disease - Computer simulation of transposition of great arteries in infants
** R01HL-11901-12 0017 Effects of metabolic surgery on the hyperlipidemias - Membrane permeability, blood viscosity, oxygen uptake-Rheology studies (rabbits)
R01HL-11906-11 Comparative study of heart function (cats, rats, hedgehogs, squirrels)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
** R01HL-12395-10 X-ray study of oxygen-carrying cobalt complexes
P01HL-12738-10 0069 Physiologic pharmacology and its clinical applications - Blood rheology in coronary heart disease (dogs)
R01HL-12792-09 Local control of the microcirculation (hamsters, rats)
** R01HL-13157-09 Molecular oxygen carriers--Synthesis, structure, bonding
** R01HL-13412-17 Synthetic oxygen carriers
R01HL-13989-05 Role of water in respiratory protein structure
R01HL-14127-16 Methemoglobinemia and antihypertensive drugs (cats, mice, rats)
P01HL-14414-07 0015 Environmental influences on cardiorespiratory and cellular functions - Control of the cardiovascular system (dogs)
R01HL-14508-10 Structure and function of respiratory hemoproteins
** P01HL-14985-07 0002 Adaptation to hypoxia - Oxygen transport in man at high altitude
** P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
P60HL-15168-07 0010 Comprehensive sickle cell disease center - Sickle cell center project (children)
** P01HL-15194-07 0023 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Diffusion and cardiogenic agitation (dogs)
R01HL-15284-06 Hemoglobin and myoglobin kinetic studies (human, animals)
R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)
** R01HL-15640-06 Thermodynamic studies on model oxygen carriers
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
** P60HL-16008-06 0017 Wayne State University comprehensive sickle cell center - Oxygen transport kinetics of pre- and post-sickling cells (human)
R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
R01HL-16292-05 0009 Surgery and non-obstructive coronary insufficiency - Exercise and supply-demand balance (human)
R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
R01HL-16582-05 Artificial lungs (dogs)
** R01HL-16828-04 Gradient and transport of oxygen in tissue and organs (mammals)
** P01HL-16833-04 0003 Hemoglobin and red cell system in hemoglobinopathies - Oxygen binding curves and equilibria (human)
R01HL-16931-04 Red cell storage and transfusion (human, animals)
** R01HL-17246-03 Oxygen uptake at one minute of exercise (human)
** P01HL-17421-05 0002 Regulation and exchange in the microcirculation - Metabolic and myogenic blood flow regulation in microcirculation (animals)
** R01HL-17517-03 Arterial wall oxygen transport in atherosclerosis (rabbits, dogs)
R01HL-17578-04 Exercise performance in children with heart disease
R01HL-17794-03 Chelating agents as blood substitutes
** R01HL-17808-03 Effect of altered oxygen affinity on oxygen transport (human, rats)
P01HL-17813-04 0007 Lung disease and the oxygenation of blood and tissue - Studies on the function of myoglobin (dogs)
** R01HL-17826-04 Oxygen delivery to tissue (rat, dog)
** R01HL-17828-04 Kinetic studies of hemerythrin reactions (marine worms)
** R01HL-17967-04 Limiting factors in oxygen uptake in the lung
** R01HL-18080-03 Extrinsic control of intestinal microcirculation (dogs)
** R01HL-18082-03 Erythrocyte phosphates and vertebrate gas transport (amphibians, reptiles)
R01HL-18096-04 Vasoactive agents in splanchnic viscera (primates, dogs)
** R01HL-18145-03 Oxygen transport mechanisms in hypoxia (dogs, rats, rabbits)
P01HL-18208-04 0006 Center for the study of blood cell rheology - Analysis of flow in arterioles and capillaries (human)
** R01HL-18226-04 Mechanism of oxygen supply to tissue (human, animals)
R01HL-18292-04 Vasodilation and microvascular oxygen delivery (dog, hamster)
** R01HL-18309-04 Oxygen transport--Hemoglobins with modified hemes (horse)
M P01HL-18708-03 Oxygen, energy and contractility in cardiac tissue
P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
** R01HL-19065-02 Molecular oxygen in biological fluids
R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
P50HL-19190-02 0009 Pulmonary SCOR-Pathophysiology, management of IRDS - Developing non-invasive neonatal pulmonary monitoring systems (rabbit, human)
R01HL-19449-03 Gas exchange in acute respiratory failure
R01HL-19824-02 Mass transfer in the microcirculation
R01HL-20253-02 Effects of exercise on the heart and its blood supply (dogs)
** R23HL-20576-01 Airway turbulence and pulmonary oxygen exchange
** R01HL-20895-03 0006 Cineangiographic studies of cardiovascular system - Cardiomyopathy-Hemodynamic, radiologic, morphologic abnormalities (dog, rabbit)
P60HL-20985-01 0003 Northern California sickle cell center - Kinetics of sickling and clinical manifestations in sickling disorders (human)
** P01HL-21016-02 0014 Sickle cell anemia and other hemoglobinopathies - Human hemoglobin mutants with abnormal oxygen binding
P01HL-21016-02 0015 Sickle cell anemia and other hemoglobinopathies - EPR study of NO derivatives of Hb Beth Israel (human)
** R23HL-21559-01 Oxygen supply and blood flow through aortic vasa vasorum (dogs)
** R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)
R01HL-22327-01 Transport of arterial blood gases through skin (swine)
** R01HL-23120-01 Chelating agents as blood substitutes

RESPIRATORY GASES

** P01HL-07896-15 0032 Environmental biomedical research program - Fluorometry study of brain exposed to hyperbaric oxygen (dogs, cats)
** P01HL-08899-14 0075 Tolerance to respiratory gases in health and disease - Gas diffusion rates and bubble formation across membranes (animals)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
R01HL-16093-05 Functional properties of hemoglobin and erythrocytes
R01HL-16784-03 Lung tissue and water volume (human, dogs)
** R01HL-18630-03 Pulmonary hemodynamics in atelectasis and hypoxia (dogs)
** R01HL-21257-02 Breathing in sleep--Airway control and blood gases (cats)
R23HL-21990-01 Accuracy of the ventilatory response to exercise (dogs)

RESPIRATORY GASES, CARBON DIOXIDE

R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
R01HL-05556-19 Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals)
P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
** P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)
P01HL-08899-14 0012 Tolerance to respiratory gases in health and disease - High oxygen for normal brain metabolism and circulation in man
** P01HL-08899-14 0013 Tolerance to respiratory gases in health and disease - Oxygen and carbon dioxide effects upon human brain metabolism
P01HL-08899-14 0019 Tolerance to respiratory gases in health and disease - High oxygen pressure upon carotid chemoreceptor (cats)
P01HL-08899-14 0024 Tolerance to respiratory gases in health and disease - Effects of oxygen pressures on physiological control systems (human, dogs)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
R01HL-12564-09 Control of respiration and blood gases (human, dog)
P01HL-14414-07 0003 Environmental influences on cardiorespiratory and cellular functions - Exposure to abnormal gaseous environments (human, dogs, rabbits)
** P01HL-15194-07 0022 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Pulmonary carbon dioxide exchange (dogs)
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
R01HL-16927-05 Structure and function of normal and abnormal hemoglobin (human)
R01HL-17571-03 Study of membrane permeability by NMR relaxation (human)
R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
R01HL-17963-04 Human erythrocyte carbonic anhydrase
R01HL-18309-04 Oxygen transport--Hemoglobins with modified hemes (horse)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-19248-03 Breathing pattern variation and mechanical influences
R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport
P01HL-19737-02 0008 Cellular and molecular aspects of respiratory physiology - Kinetics of movement of acid metabolites from cell to capillary blood (dogs)
P01HL-21016-02 0006 Sickle cell anemia and other hemoglobinopathies - Analysis of the oxygen dissociation curve of Hb S-containing red cells
R23HL-21434-02 Intrinsic control of coronary blood flow by chemicals (guinea pigs)
R01HL-21860-18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)

RESPIRATORY GASES, OXYGEN

SEE ALSO GAS ELEMENTS, OZONE
SEE ALSO RADIOISOTOPES, OXYGEN
R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
P01HL-08899-14 0006 Tolerance to respiratory gases in health and disease - Effects of extreme pressures of inert gases in macaque monkey
** P01HL-08899-14 0013 Tolerance to respiratory gases in health and disease - Oxygen and carbon dioxide effects upon human brain metabolism
P01HL-08899-14 0019 Tolerance to respiratory gases in health and disease - High oxygen pressure upon carotid chemoreceptor (cats)
P01HL-08899-14 0024 Tolerance to respiratory gases in health and disease - Effects of oxygen pressures on physiological control systems (human, dogs)
** P01HL-08899-14 0028 Tolerance to respiratory gases in health and disease - Inert gas exchange, oxygen influences-organs and tissues (human, rabbits, dogs)
P01HL-08899-14 0029 Tolerance to respiratory gases in health and disease - Isobaric gas counter diffusion phenomena (human, pigs)
P01HL-08899-14 0076 Tolerance to respiratory gases in health and disease - Bubble formation during gas counterdiffusion (hamsters)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
R01HL-13157-09 Molecular oxygen carriers--Synthesis, structure, bonding
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
** R01HL-13581-11 Reactions of oxygen with heme proteins
P01HL-14414-07 0003 Environmental influences on cardiorespiratory and cellular functions - Exposure to abnormal gaseous environments (human, dogs, rabbits)
R01HL-17844-04 Artificial blood substitutes--02-binding iron chelates (human, mammals)
R01HL-18489-03 Hemodynamic interactions of vasoactive chemicals (rats)
R01HL-18647-03 Ischemic myocardial injury in cultured heart cells (rats)
P01HL-19737-02 0004 Cellular and molecular aspects of respiratory physiology - Rapid reactions and erythrocyte exchanges of blood during respiratory transport
R23HL-21434-02 Intrinsic control of coronary blood flow by chemicals (guinea pigs)
R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)

RESPIRATORY GASES, OXYGENATION

SEE ALSO OXIDATION-REDUCTION, OXIDATION
SEE ALSO RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, HYPERBARIC OXYGENATION
R01HL-05791-18 Structure and function in hemoglobins (human)
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
P01HL-08899-14 0025 Tolerance to respiratory gases in health and disease - Effects of oxygen on cardiopulmonary gas transport functions (dogs)
** P01HL-08899-14 0031 Tolerance to respiratory gases in health and disease - Studies in exercise (human, dogs)
P01HL-08899-14 0039 Tolerance to respiratory gases in health and disease - Dose-response studies of oxygen on CO2 reactivity in brain vessels (human)
R01HL-10383-12 Physical-chemical studies of hemoglobins and erythrocyte (human)
P01HL-10539-12 0067 Pathophysiology of circulation - Mechanical, electrophysiological studies--Isolated heart muscle (dog, rat)
R01HL-12524-10 Reaction of hemoglobin with ligands and antibodies (human, carp)
R01HL-12526-09 Raman spectra of heme proteins and related molecules
R01HL-13164-07 Interaction of the alpha and beta chains of human hemoglobin
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
** R01HL-13531-06 Cobaglobins--Cobalt substituted myo- and hemoglobins
R01HL-13581-11 Reactions of oxygen with heme proteins
P60HL-15162-07 0020 Comprehensive sickle cell center - Biophysical studies of normal and sickle red cells (human)
P01HL-15194-07 0006 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Velocity of Bohr effect in erythrocytes (human)
R01HL-15520-06 Total blood replacement by fluorocarbons and polyols (rats)
R01HL-15627-06 X-ray and chemical studies of metalloporphyrins
R01HL-15640-06 Thermodynamic studies on model oxygen carriers
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
P60HL-16008-06 0017 Wayne State University comprehensive sickle cell center - Oxygen transport kinetics of pre- and post-sickling cells (human)
P60HL-16008-06 0018 Wayne State University comprehensive sickle cell center - Hemoglobin S and RBC membranes--Pathogenesis of irreversibly sickled cells
R01HL-16580-04 Mathematical models for studying sickle-cell disease
R01HL-16686-04 Properties of cytochrome oxidase (cattle, bacteria)
P01HL-16833-04 0011 Hemoglobin and red cell system in hemoglobinopathies - Relationship between hemoglobin and RBC membrane in sickling cells (human, rats)
** R01HL-16860-05 Mossbauer studies of respiratory hemoproteins
R01HL-16927-05 Structure and function of normal and abnormal hemoglobin (human)
R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
R01HL-17494-07 Mechanism of ligand binding to hemoglobin (human)
** P01HL-17731-04 0010 Physiological basis of pulmonary disease - Gas exchange kinetics (dogs)
M P01HL-17813-04 Lung disease and the oxygenation of blood and tissue
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)
** P01HL-17813-04 0007 Lung disease and the oxygenation of blood and tissue - Studies on the function of myoglobin (dogs)
R01HL-18226-04 Mechanism of oxygen supply to tissue (human, animals)
** R01HL-18292-04 Vasodilation and microvascular oxygen delivery (dog, hamster)
** R01HL-18328-03 Hemoglobin function and tissue oxygenation (human, dogs)
R01HL-18660-03 Neurotransmitter receptors in human erythrocytes
R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)
** R01HL-18969-02 Arterial wall oxygenation (rabbits, dogs)
R01HL-18984-01 P50 effect on exercise limit in stable angina (human)
P50HL-19187-02 0010 Pediatric pulmonary SCOR--Hyaline membrane disease - Treatment, outcome of HMO--Continuous positive airway pressure (human, monkey)
R01HL-19488-03 Picosecond laser studies of heme-proteins
** P01HL-19737-02 0006 Cellular and molecular aspects of respiratory physiology - Tissue oxygenation and mitochondrial respiratory activity (sheep)
P60HL-20985-01 0003 Northern California sickle cell center - Kinetics of sickling and clinical manifestations in sickling disorders (human)
P01HL-21016-02 0004 Sickle cell anemia and other hemoglobinopathies - Kinetics of sickling
P01HL-21016-02 0005 Sickle cell anemia and other hemoglobinopathies - Ligand kinetics in normal and Hb S containing erythrocytes (human)
P01HL-21016-02 0006 Sickle cell anemia and other hemoglobinopathies - Analysis of the oxygen dissociation curve of Hb S-containing red cells
R23HL-21405-01 Respiratory muscles in regulation of infant breathing (human)
R01HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin
R01HL-22325-01 Thermodynamics in respiratory protein binding (human, trout)
** R01HL-22622-01 Sleep apnea and desaturation-mechanisms and incidence (human)
R01HL-22780-01 Factors modifying the reaction properties of HgS (human)
** R23HL-22972-01 Microcirculatory function in hypotension (rats, hamsters)

RESPIRATORY HYPERSENSITIVITY

SEE HYPERSENSITIVITY, RESPIRATORY HYPERSENSITIVITY

RESPIRATORY HYPOXIA

SEE RESPIRATORY GAS LEVELS, HYPOXIA, RESPIRATORY

RESPIRATORY INFECTIONS

SEE ALSO BACTERIAL DISEASES, ACTINOMYCETALES INFECTIONS, TUBERCULOSIS
SEE ALSO MYCOSES, ASPERGILLOSIS
SEE ALSO RESPIRATORY DISORDERS, LARYNGOTRACHEITIS
SEE ALSO RESPIRATORY DISORDERS, PNEUMONIA
SEE ALSO VIRUS DISEASES, MYXOVIRUS, INFLUENZA
SEE ALSO VIRUSES, RESPIRATORY (GENERAL)
** P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
** P01HL-08805-15 0049 Regulation of ventilation and pulmonary circulation - Pulmonary hypertension produced by Dirofilaria immitis in the dog
R01HL-13596-07 Clearance of plasma proteins from alveoli
R01HL-13824-06 Defense mechanisms in pathogenesis of emphysema (human, dogs)
** R01HL-13885-08 0006 Cystic fibrosis and pulmonary disease - Cell mediated immunity and Pseudomonas infections in cystic fibrosis (human)
** R01HL-13885-08 0007 Cystic fibrosis and pulmonary disease - Alveolar macrophage defense mechanism (human, rabbits)
R01HL-13885-08 0008 Cystic fibrosis and pulmonary disease - Pseudomonas specific activation of alveolar macrophages (human, rabbits)
** P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLD
P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
P50HL-14136-07 9006 Pulmonary SCOR--Airways obstructive diseases - Pediatric lung function core
P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
** P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
** P50HL-14218-07 0005 Pulmonary SCOR--Newborn lung center - Prevention of infection in infants with respiratory distress (human)
P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in ROS (sheep, cat)
P50HL-15061-07 0006 Response of lung to injury - Complement synthesis by pulmonary macrophages (guinea pigs, human)
** P50HL-15061-07 0007 Response of lung to injury - Human factors for phagocytosis in normal and diseased lungs
** P50HL-15061-07 0010 Response of lung to injury - An animal model system for the study of bronchiolitis and its sequellae (dogs)
P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
** P60HL-15169-05 0015 Support for center for sickle cell disease - Pathophysiology of acute pulmonary infiltrates in sickle cell disease (human)
P60HL-15996-06 0003 Cincinnati comprehensive sickle cell center - Prophylactic penicillin in treatment of sickle cell anemia (human)
R01HL-16463-05 Localization of airways obstruction and responses
R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)
R01HL-19018-03 Etiologic factors in cryptogenic fibrosing alveolitis (human)
** P50HL-19156-02 0001 Pulmonary SCOR--Chronic diseases of airways - Irritability of airways induced by epithelial damage in healthy subjects (human)
M P50HL-19157-02 Studies in cystic fibrosis and bronchiolitis
** P50HL-19157-02 0002 Studies in cystic fibrosis and bronchiolitis - Clinical core
P50HL-19157-02 0003 Studies in cystic fibrosis and bronchiolitis - Nasal mucosal function in patients with cystic fibrosis
** P50HL-19157-02 0011 Studies in cystic fibrosis and bronchiolitis - Pathogenesis of bronchiolitis (children)
M P50HL-19171-02 Pulmonary SCOR--Lung injury by childhood infections
** P50HL-19171-02 0001 Pulmonary SCOR--Lung injury by childhood infections - Longitudinal study--Respiratory infections and lung growth in normal children
** P50HL-19171-02 0003 Pulmonary SCOR--Lung injury by childhood infections - Natural history, host defense defects--Children with chronic pulmonary disease
** P50HL-19171-02 0004 Pulmonary SCOR--Lung injury by childhood infections - Long-term effects of respiratory infections in early childhood
** P50HL-19171-02 0005 Pulmonary SCOR--Lung injury by childhood infections - Chronic respiratory disease of children in North Carolina
** P50HL-19171-02 0006 Pulmonary SCOR--Lung injury by childhood infections - Development of model systems (bacteria, viruses, hamsters)
** P50HL-19171-02 0007 Pulmonary SCOR--Lung injury by childhood infections - Immunologic studies in models of lower respiratory tract infection (rodents)
** P50HL-19171-02 0008 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Electron microscopy, radioautography, histochemistry

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P50HL-19171-02 0009 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Scanning electron microscopy, freeze-fracture methods
** P50HL-19171-02 0010 Pulmonary SCOR--Lung injury by childhood infections - Metabolic pathways of normal and injured respiratory cells
** P50HL-19171-02 0011 Pulmonary SCOR--Lung injury by childhood infections - Clinical support core
** P50HL-19171-02 0012 Pulmonary SCOR--Lung injury by childhood infections - Laboratory support core
R01HL-19741-03 Murine CRD--A model of chronic pulmonary inflammation (mice, rats)
** R01HL-20002-03 Pulmonary complications of viral infections (children)
** R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
** R01HL-20963-01 Experimental lung abscess (rabbits)
R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)
** R01HL-21829-01 Etiology of obstructive airway disease in children (also monkeys)
R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)
** P60HL-23282-01 0004 Comprehensive hospital/community sickle cell center - Bacterial, viral and mycoplasmal infections and sickle cell disease complications
N01HR-32900-09 Pilot study to standardize the measurement of 'closing volume' (human)
N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)
N01HR-32903-11 Pilot study to standardize the measurement of 'closing volume' (human)

RESPIRATORY INSUFFICIENCY (GENERAL)

SEE RESPIRATORY DISORDERS, RESPIRATORY INSUFFICIENCY (GENERAL)

RESPIRATORY INSUFFICIENCY POST-TRAUMATIC

SEE RESPIRATORY DISORDERS, RESPIRATORY INSUFFICIENCY, SHOCK LUNG

RESPIRATORY MUSCLES

SEE ALSO BODY CAVITIES, DIAPHRAGM
** P01HL-06296-18 0002 Cardiovascular and pulmonary adaptation to stress - Respiratory muscle blood flow, mechanics and metabolism (human, dog)
** R01HL-08789-11 Respiratory muscles and ventilatory control in man (and dogs)
P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
P50HL-14153-07 0013 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary mechanics and mediators of allergic reactions (guinea pigs, human)
** P01HL-14414-07 0007 Environmental influences on cardiorespiratory and cellular functions - Neural control of respiration (human, cats)
** P01HL-14580-07 0003 Program project in respiratory mechanics - Chest wall mechanics and respiratory control (human, dogs)
P01HL-16878-05 0003 Control of ventilation in health and disease - Brain stem respiratory neurons in response mechanical/chemical loading (animal)
R01HL-17689-06 Neurophysiologic studies of respiratory control (cats)
** R01HL-17715-04 Respiratory muscle afferents in respiratory control (cats)
** P01HL-17813-04 0006 Lung disease and the oxygenation of blood and tissue - Assessment of respiratory muscle contractile force (human, dogs)
R01HL-18007-05 Neural mechanisms controling motor act of breathing (cats, human)
R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
P50HL-19170-02 0003 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanisms of bronchial reactivity to acute and chronic airway challenge (dog)
P50HL-19170-02 0006 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanism of overdistension (human, animal)
** P50HL-19170-02 0009 Harvard pulmonary SCOR--Chronic diseases of the airways - Ventilatory muscle training in chronic obstructive pulmonary disease (human)
R01HL-20847-02 Respiratory neurochemical control (human, goats)
R23HL-20968-02 Respiratory failure--Control and muscle dysfunction (human)
R01HL-21257-02 Breathing in sleep--Airway control and blood gases (cats)
** R23HL-21405-01 Respiratory muscles in regulation of infant breathing (human)
** R01HL-21500-02 Performance of respiratory muscles under stress (dogs)
P01HL-21584-02 0004 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on respiratory mechanics (dogs)
** P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)
** R01HL-22022-01 Respiratory muscle dysfunction in respiratory failure (human)
R01HL-23586-06 Pharmacologic control of hypersensitivity phenomena (human)

RESPIRATORY PROTEINS (GENERAL)

SEE ALSO HEMOPROTEINS
SEE ALSO METALLOPROTEINS
SEE ALSO PORPHYROPROTEINS, METALLOPORPHYROPROTEINS
R01HL-16860-05 Mossbauer studies of respiratory hemoproteins
** R01HL-19481-03 High field NMR studies of respiratory proteins (human, horse, fish, microbes)

RESPIRATORY PROTEINS, REDOXINS

SEE ALSO FLAVODOXIN
SEE ALSO METALLOPROTEINS, FERREDOXIN
R01HL-13652-08 Metal sites in metalloproteins (mushroom)

RESPIRATORY PROTEINS, RESPIRATORY ENZYMES

SEE ALSO FLAVOPROTEIN ENZYMES
SEE ALSO NAD LINKED ENZYMES
SEE ALSO NADP LINKED ENZYMES
SEE ALSO OXIDOREDUCTASES
SEE ALSO OXYGENASES
SEE ALSO PEROXIDASES
** R01HL-12576-10 Bioenergetics apparatus in heart mitochondria
P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in ROS (sheep, cat)
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
R01HL-16920-02 Proteases in normal and immunologically injured lung (guinea pigs, rabbits)
R01HL-18304-03 FT-infrared spectroscopy of heart muscle energetics (cattle)
** R01HL-19392-03 Spectroscopic studies of respiratory metalloproteins

RESPIRATORY SYNCYTIAL VIRUSES

SEE VIRUSES, MYXOVIRUSES, RESPIRATORY SYNCYTIAL VIRUSES

RESPIRATORY SYSTEM (GENERAL)

SEE ALSO NASAL, NOSE
R01HL-02942-22 Biochemistry of cardiovascular connective tissue (human, cattle, primates)
** P01HL-07896-15 0036 Environmental biomedical research program - Respiratory heat loss in deep diving (infants, dogs)
P01HL-12373-10 0016 Cardiopulmonary physiology and pathophysiology - Histology-histochemistry-Gough laboratory
P50HL-14136-07 0004 Pulmonary SCOR--Airways obstructive diseases - Morphometric studies of developing emphysema (human)
R01HL-19066-03 Synthesis and evaluation of prostaglandin metabolites (guinea pigs)
R01HL-19379-03 Characterization of small-granule cells in the lung (mammals)
R01HL-19722-03 Aerosol growth in the respiratory system (models)
** P01HL-19737-02 0002 Cellular and molecular aspects of respiratory physiology - Airway smooth muscle in health and disease (human, animals)
** R01HL-20611-02 Airway smooth muscle and cyclic nucleotides

RESPIRATORY SYSTEM, ALVEOLAR MACROPHAGES

P01HL-06285-18 0209 Cardiovascular-respiratory physiology and biochemistry - Metabolic studies of isolated lung cells (human, animals)
P01HL-06285-18 0210 Cardiovascular-respiratory physiology and biochemistry - Physicochemical and enzymatic studies of lung surfactant (Halobacterium)
P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)
** R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
R01HL-13596-07 Clearance of plasma proteins from alveoli
** R01HL-13885-08 0007 Cystic fibrosis and pulmonary disease - Alveolar macrophage defense mechanism (human, rabbits)
** R01HL-13885-08 0008 Cystic fibrosis and pulmonary disease - Pseudomonas specific activation of alveolar macrophages (human, rabbits)
** P50HL-14153-07 0004 Johns Hopkins Lung Center--Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)
M P50HL-14212-07 Correlated studies of pulmonary fibrosis
** P50HL-14212-07 0004 Correlated studies of pulmonary fibrosis - Collagen metabolism in lung tissue and lung cells (human, animal)
** P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
** P50HL-14212-07 0007 Correlated studies of pulmonary fibrosis - Protein metabolism in alveolar macrophages (rabbits, guinea pigs, human)
** P50HL-14212-07 0013 Correlated studies of pulmonary fibrosis - Mechanism of beryllium pathogenicity in the lung (human, rabbit, guinea pig)
P50HL-14212-07 0014 Correlated studies of pulmonary fibrosis Pulmonary lavage cells, secretions in diffuse interstitial lung disease (human)
** P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
** P50HL-14212-07 0016 Correlated studies of pulmonary fibrosis Role of pulmonary alveolar macrophages in fibrosis (human, rabbit)
R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
R01HL-14663-07 Pulmonary oxygen toxicity in newborn lung (human, mice)
** R01HL-14700-05 Humoral and lung protease-antiprotease role in obstructive disease (human)
R01HL-14778-10 Proteolytic enzymes and inhibitors in lung disease (mammals, human)
** P50HL-15061-07 0006 Response of lung to injury - Complement synthesis by pulmonary macrophages (guinea pigs, human)
** P50HL-15061-07 0007 Response of lung to injury - Human factors for phagocytosis in normal and diseased lungs
** P50HL-15061-07 0009 Response of lung to injury - Alveolar macrophages (human, rabbits)
P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
** P50HL-15092-07 0006 Immune and fibrotic response to occupational environments - Immunologic studies in silicosis (human, rabbits, hamsters, guinea pigs)
P50HL-15092-07 0007 Immune and fibrotic response to occupational environments - Asbestosis--Cellular immunity, structure and mineral localization (human)
P50HL-15092-07 0008 Immune and fibrotic response to occupational environments - Animal models of asbestosis (hamsters)
** P01HL-15832-06 0004 Chemical-structural predispositions to lung injury - Proteolytic activity leucocytes in patients with obstructive lung disease
P01HL-15832-06 0009 Chemical-structural predispositions to lung injury - Immunology--Enzyme degradation products of human lung elastin and microfibril
P01HL-15832-06 0010 Chemical-structural predispositions to lung injury - Kinin generating systems in pulmonary disease (human, animals)
R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
M P01HL-16118-06 Study of emphysema
P01HL-16118-06 0004 Study of emphysema - Metabolic activity of pulmonary connective tissue (human, hamsters)
P01HL-16118-06 0005 Study of emphysema - Mechanisms of elastase emphysema (mice)
P01HL-16137-05 0004 Alveolar biology - Subcellular processes and controls in the surfactant system (animals)
M P01HL-16748-05 Cellular and immunological basis of pulmonary diseases
** P01HL-16748-05 0001 Cellular and immunological basis of pulmonary diseases - Mechanisms of alveolar macrophage function and dysfunction (human, rabbits)
** P01HL-16748-05 0002 Cellular and immunological basis of pulmonary diseases - Immunological function of alveolar macrophages (rabbits, sheep, mice)
** P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems
** P01HL-16748-05 0006 Cellular and immunological basis of pulmonary diseases - Sarcoidosis--Studies with bronchial lavage (human)
M P01HL-16769-05 Pathobiologic and host defense reactions in the lung
** P01HL-16769-05 0003 Pathobiologic and host defense reactions in the lung - Pathobiologic mechanisms of delayed sensitivity reactions in the lung (animals)
P01HL-16769-05 0004 Pathobiologic and host defense reactions in the lung - Pathogenesis of Pseudomonas and Serratia pneumonias (rabbits)
** P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung - Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
** P01HL-16769-05 0009 Pathobiologic and host defense reactions in the lung - Electron microscopy and tissue culture core laboratory
R01HL-16920-02 Proteases in normal and immunologically injured lung (guinea pigs, rabbits)
P01HL-17417-05 0001 Experimental lung transplantation - Mechanisms and mediators of lung allograft rejection (dogs, mice)
P01HL-17417-05 0003 Experimental lung transplantation - Methods for detecting lung allograft rejection (dogs)
R01HL-17581-03 Patent ductus arteriosus and pulmonary hypertension (dogs)
P50HL-19171-02 0007 Pulmonary SCOR--Lung injury by childhood infections - Immunologic studies in models of lower respiratory tract infection (rodents)
P50HL-19171-02 0009 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Scanning electron microscopy, freeze-fracture methods
P50HL-19190-02 0004 Pulmonary SCOR--Pathophysiology, management of ROS - Type II cells--Control of protein turnover (rabbit)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-19237-03 Obstructive lung disease and alveolar macrophages (humanu animals)
** R01HL-19429-03 Phagocytosis--Ingestion in alveiolar macrophages (rabbits)
** R23HL-19584-01 Alveolar macrophage responses to toxic particle exposure (guinea pigs, human)
R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)
R01HL-19668-03 Biochemistry of lung connective tissue (rats)
P01HL-19717-02 0003 Response of the lung to injury - The role of elastolysis in emphysema (hamsters, rabbits)
P01HL-19717-02 0008 Response of the lung to injury - Experimental models of lung disease
** P01HL-19717-02 0016 Response of the lung to injury - The alveolar macrophage in elastase emphysema (guinea pigs, hamsters)
** R01HL-19732-03 Lymphokines in pulmonary granulomatous inflammation (mice)
R01HL-19741-03 Murine CRD--A model of chronic pulmonary inflammation (mice, rats)
** R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)
** R01HL-19760-01 Cellular immune responses of the lung (mice, guinea pigs)
** R01HL-19774-03 Pathogenesis of chronic lung disease (rats, mice, bacteria)
** R01HL-19777-03 Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
** R01HL-19806-03 Chemotactic control of airway phagocytes (human, rabbits)
R01HL-19819-03 Mitogen induced interstitial pneumonitis (rabbits)
R01HL-20063-03 Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice)
R01HL-20095-03 Role of lymphokines and monocytes in lung fibrosis (human, guinea pigs, rats)
R01HL-20104-03 Pulmonary granulomatous inflammations (mice)
** R01HL-20125-02 Cyclic nucleotides and alveolar macrophage activation (rabbits)
R01HL-20352-02 Oefenses of lung cells against oxygen toxicity (human, animals)
R01HL-20566-02 Lactate metabolism in the lung (rats)
** R01HL-20675-02 Alveolar macrophage function in man
P01HL-20994-02 0001 Oynamics of neutrophil elastase in the lung - Dynamics of neutrophil elastase in normal animals (dogs, rabbits)
P01HL-20994-02 0005 Dynamics of neutrophil elastase in the lung - Protease inhibitors in pulmonary inflammation and emphysema (rabbits)
R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
** R01HL-21120-02 Membrane dynamics in alveolar macrophages (rabbits)
** R01HL-21140-01 Studies of pulmonay alveolar macrophage function (rabbits)
** R23HL-21251-01 Metabolism of neutral lipids in the pulmonary alveolus (rabbits)
R01HL-21565-02 Pathogenesis of inflammatory lung injury (rats, rabbits)
R23HL-21997-01 Pulmonary immunopathology in the compromised host (guinea pigs)
R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)
R01HL-22302-01 Immune responses in the human lung (also rabbits, monkeys)
** R23HL-22437-01 Leukotactic mediators in lung inflammatory reactions (rats, rabbits, human)
** R23HL-22823-01 Phagocytic and immune defense mechanisms of the lung (mice)
R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)
R01HL-23211-01 Active normoxic pulmonary vasodilatation (rat, dog, sheep)
R01HL-23595-01 Experimental emphysema--Oepression of protease inhibitors (rats, hamsters)
R01HL-23981-01 Acute alveolar injury (dogs)

RESPIRATORY SYSTEM, BRONCHI

** P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
** P01HL-16769-05 0010 Pathobiologic and host defense reactions in the lung - Bronchus associated lymphoid tissue and delayed hypersensitivity (rabbits)
** P01HL-17417-05 0006 Experimental lung transplantation - Bronchial anastomotic problems and increases donor lung availability (dog)
R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
P50HL-19160-02 0002 Mucus abnormality in cystic fibrosis - Ultrastructure, cytochemistry of pulmonary secretion (human, rat)
R01HL-19431-03 Regional mucociliary transport in the human lung
P01HL-19717-02 0014 Response of the lung to injury - Stereology of epithelialized bronchi in evolving elastase emphysema (hamsters)
** R01HL-20105-02 Oeposition of hygroscopic aerosols in bronchi (dogs, human, models)
R01HL-20635-03 Factors in lung development (rat and chick embryo)
R23HL-21199-02 Sound transmission in lung (dog)
R01HL-21612-02 Biochemistry of lung proteoglycans (human, rabbits)
** R01HL-22924-01 The airway mucosal barrier (guinea pigs)

RESPIRATORY SYSTEM, BRONCHIAL MUCUS

** P01HL-06285-18 0189 Cardiovascular-respiratory physiology and biochemistry - Mucociliary clearance (cats, dogs)
** R01HL-13885-08 0009 Cystic fibrosis and pulmonary disease - Respiratory mucus glycoproteins (human, rabbits)
R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
** P50HL-14153-07 0016 Johns Hopkins Lung Center--Chronic diseases of airways - Airways defense mechanisms (dogs)
** R01HL-14271-07 Physico-chemical properties of tracheal mucus (dogs, frogs)
** R01HL-15155-05 Rheology of pulmonary secretions (dogs)
** R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)
** R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
** R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)
P50HL-19156-02 0003 Pulmonary SCOR--Chronic diseases of airways - Powdered tantalum to study airway morphology and mucociliary clearance (human)
P50HL-19157-02 0002 Studies in cystic fibrosis and bronchiolitis - Clinical core
P50HL-19157-02 0007 Studies in cystic fibrosis and bronchiolitis - Analysis of cystic fibrosis factors (human)
M P50HL-19160-02 Mucus abnormality in cystic fibrosis
** P50HL-19160-02 0001 Mucus abnormality in cystic fibrosis - Regulation of respiratory secretions (rat, human)
** P50HL-19160-02 0002 Mucus abnormality in cystic fibrosis - Ultrastructure, cytochemistry of pulmonary secretion (human, rat)
** P50HL-19190-02 0005 Pulmonary SCOR--Pathophysiology, management of IROS - Glycoproteins in mucous secretions (human, cattle)
** R01HL-19431-03 Regional mucociliary transport in the human lung
** R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)
** P01HL-20994-02 0006 Oynamics of neutrophil elastase in the lung - Protease inhibitors in human bronchial mucus
** R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)
** R01HL-22444-01 Bronchial mucus production in organ culture (human)
R23HL-22818-01 Biosynthesis of human respiratory mucous glycoprotein (also dog)
** R01HL-22928-01 Systematic study of bronchial circulation (sheep)
** N01HR-52957-02 Composition of respiratory mucus (human, swine)

RESPIRATORY SYSTEM, BRONCHIOLE

P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
P01HL-06285-18 0189 Cardiovascular-respiratory physiology and biochemistry - Mucociliary clearance (cats, dogs)
P50HL-14136-07 0004 Pulmonary SCOR--Airways obstructive diseases - Morphometric studies of developing emphysema (human)
R01HL-14663-07 Pulmonary oxygen toxicity in newborn lung (human, mice)
P01HL-15832-06 0002 Chemical-structural predispositions to lung injury - Connective tissue in lung in development and repair of injury (human, rats, mice)
P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)
R01HL-18931-02 Lung elastic tissue characteristics (swine, human)
R01HL-19431-03 Regional mucociliary transport in the human lung
R01HL-20548-02 Innervation of the lung (rats, monkeys)
R23HL-21539-02 Mechanical properties of isolated small bronchioles (rabbits)
** R01HL-22333-01 Cellular basis of small airways function (rats)
R01HL-22522-01 Cardioselectivity of beta-adrenoceptor antagonists

RESPIRATORY SYSTEM, COLLATERAL RESPIRATION

** P50HL-14153-07 0017 Johns Hopkins Lung Center--Chronic diseases of airways - Collateral ventilation and pulmonary interdependence (pig, dog, human)

RESPIRATORY SYSTEM, GILLS

P01HL-08805-15 0006 Regulation of ventilation and pulmonary circulation - Adaptation of lungfish--Estivation
P01HL-12157-11 0058 Functions and mechanisms of cell membrane ion transport - Ionic and osmotic regulation in toadfish--A euryhaline aglomerular teleost
R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)
R01HL-17768-04 Oevelopment of collateral ventilation (dogs, fish, horses)

RESPIRATORY SYSTEM, LARYNX

P50HL-14214-07 0027 Newborn lung center for hyaline membrane disease - Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep)
R01HL-21257-02 Breathing in sleep--Airway control and blood gases (cats)

RESPIRATORY SYSTEM, LUNG

SEE ALSO RESPIRATORY CIRCULATION, PULMONARY CIRCULATION
SEE ALSO RESPIRATORY FUNCTION
SEE ALSO RESPIRATORY SYSTEM PROSTHESIS, PROSTHETIC LUNG
SEE ALSO RESPIRATORY SYSTEM SURGERY, PNEUMONECTOMY

** R01HL-01770-26 Structural aspects of lung surfactant system (rats)
R01HL-02953-17 Autonomic and cardiovascular pharmacology (rats, rabbits, dogs, guinea pigs)
** P01HL-07896-15 0043 Environmental biomedical research program - Effect of hyperbaric oxygen on the lung (human, rabbits)
P01HL-07896-15 0045 Environmental biomedical research program - Extravascular lung water dynamics in pulmonary oxygen toxicity (human, baboons)
P01HL-07896-15 0047 Environmental biomedical research program - Pulmonary oxygen toxicity (chickens, rabbits)
P01HL-08805-15 0006 Regulation of ventilation and pulmonary circulation - Adaptation of lungfish--Estivation
P01HL-08899-14 0025 Tolerance to respiratory gases in health and disease - Effects of oxygen on cardiopulmonary gas transport functions (dogs)
** P01HL-08899-14 0056 Tolerance to respiratory gases in health and disease - Extension of pulmonary oxygen tolerance at increased pressures (animals)
** P01HL-11414-11 0028 Thrombosis and atherosclerosis program - Catecholamine metabolism in the lung (rat)
R01HL-12879-09 0002 Pulmonary transport and metabolism in vivo - Osmotic compartmental model of barrior exchange
R01HL-12879-09 0006 Pulmonary transport and metabolism in vivo - The missing sodium
** R01HL-12879-09 0010 Pulmonary transport and metabolism in vivo - Lung morphometry in control and edematous lungs (dogs)
R01HL-12879-09 0011 Pulmonary transport and metabolism in vivo - Membrane characteristics of lung cells (human, animals)
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
** R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)
** R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)
R01HL-13921-07 The lung as a metabolic organ (animals)
P50HL-14153-07 0004 Johns Hopkins Lung Center--Chronic diseases of airways - Macrophage enzymes in lung injury, inflammation and repair (rabbit)
** P50HL-14153-07 0015 Johns Hopkins Lung Center--Chronic diseases of airways - Kinins and human lung
P50HL-14187-07 0012 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
P50HL-14212-07 0004 Correlated studies of pulmonary fibrosis - Collagen metabolism in lung tissue and lung cells (human, animal)
** P50HL-14214-07 0015 Newborn lung center for hyaline membrane disease - Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal)
** P50HL-14214-07 0020 Newborn lung center for hyaline membrane disease - Epidermal growth factor effect--Lung differentiation, maturation (human, rabbit)
** P50HL-14214-07 0021 Newborn lung center for hyaline membrane disease - Oevelopment of surfactant system--Surfactant production and release (rat, rabbit)
** P50HL-14214-07 0023 Newborn lung center for hyaline membrane disease - Regulation of fetal lung maturation--Vitamin A (rat, rabbit, sheep, human)
** P50HL-14214-07 0024 Newborn lung center for hyaline membrane disease - Synthesis and receptors for ACTH in fetal lung (human)
P50HL-14214-07 0025 Newborn lung center for hyaline membrane disease - Pulmonary vascular permeability and lung water--Hyaline membrane disease (sheep)
P50HL-14218-07 0006 Pulmonary SCOR--Newborn lung center - Biochemical characteristics of the lung in ROS (human, sheep)
R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-14388-07 0155 Regulation of the circulation in pathological states - Cardiopulmonary afferent activity, carotid chemoubarorecaptor reflexes
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
** R01HL-14456-07 Lung metabolism--Enzymes in the pulmonary circulation (human, animals)
** R01HL-14495-05 Solid and structural mechanics of lungs (mammals)
** P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
P01HL-14580-07 0002 Program project in respiratory mechanics - Airway aerodynamics (human, dogs)
P01HL-14580-07 0005 Program project in respiratory mechanics - Development and evaluation of tests of pulmonary function (human)
** R01HL-14663-07 Pulmonary oxygen toxicity in newborn lung (human, mice)
** R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
** R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
** P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
R01HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
** R01HL-15341-06 Lung hormonal and chromosomal regulation (rats, rabbits)
R01HL-15655-05 Blood flow and gas exchange in placenta and lungs (sheep) rabbits)
** P01HL-15832-06 0002 Chemical-structural predispositions to lung injury - Connective tissue in lung in development and repair of injury (human, rats, mice)
** P01HL-15832-06 0005 Chemical-structural predispositions to lung injury - Pulmonary structure and stress-strain relationships (rats)
** P01HL-15832-06 0007 Chemical-structural predispositions to lung injury - Inactivation of vasoactive agents by the lung (human, rats, cats, dogs)
** P01HL-15832-06 0009 Chemical-structural predispositions to lung injury - Immunology--Enzyme degradation products of human lung elastin and microfibril
** P01HL-15832-06 0011 Chemical-structural predispositions to lung injury - Interaction of cell receptors with vasoactive agents in pulmonary vascular bed
** P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
** P01HL-15832-06 9001 Chemical-structural predispositions to lung injury - Tissue culture studies of lung cell function--Core facility
M P01HL-16118-06 Study of emphysema
P01HL-16118-06 0003 Study of emphysema - Degradation of collagen and elastin (human, hamsters, mice)
R01HL-16330-06 Aging-tissue injury and repair (rats)
R01HL-16430-05 Neural control of respiration (cats)
R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)
P01HL-16769-05 0010 Pathobiologic and host defense reactions in the lung - Bronchus associated lymphoid tissue and delayed hypersensitivity (rabbits)
P01HL-16769-05 0011 Pathobiologic and host defense reactions in the lung - Core--Laboratory for biomedical preparation (rabbits)
** R01HL-16916-04 0001 The role of albumins in lung water accumulation - Capillary permeability (dogs, human)
** R01HL-16916-04 0002 The role of albumins in lung water accumulation - Lung water balance--Forces, models and albumin concentrations (rabbits, dogs)
** R01HL-16920-02 Proteases in normal and immunologically injured lung (guinea pigs, rabbits)
** R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
R01HL-17503-03 Vascular bubbles in decompression sickness (minipig, dog, goat)
P01HL-17731-04 0011 Physiological basis of pulmonary disease - Morphometric studies of the lung--Core
R01HL-17826-04 Oxygen delivery to tissue (rat, dog)
** R01HL-17967-04 Limiting factors in oxygen uptake in the lung
** R01HL-18260-04 Cyclic nucleotide metabolism in lung tissue (cattle)
** R01HL-18526-03 Kinins and the human lung
R01HL-18607-03 Metabolic and drug studies on experimental fat embolism (mice)
R01HL-18639-03 Human anatomy for cardiac prostheses (human)
** R01HL-18826-04 Interaction of peptides and target cells in lung (human)
** R01HL-18931-02 Lung elastic tissue characteristics (swine, human)
** R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)
** R01HL-18952-03 Metabolism in perfused fetal and newborn rabbit lungs
** R01HL-19008-02 Carbon dioxide diffusion in lung and muscle tissues (dogs)
R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
P50HL-19155-02 0005 Pathophysiology of pulmonary edema - Protein exchange sites and lymph protein concentration in lung (mice, sheep)
P50HL-19160-02 0002 Mucus abnormality in cystic fibrosis - Ultrastructure, cytochemistry of pulmonary secretion (human, rat)
P50HL-19171-02 0010 Pulmonary SCOR--Lung injury by childhood infections - Metabolic pathways of normal and injured respiratory cells
P50HL-19185-02 0003 Pulmonary SCOR--Neonatal respiratory distress syndromes - Factors affecting formation and release of pulmonary surfactant in fetal lambs
P50HL-19185-02 0004 Pulmonary SCOR--Neonatal respiratory distress syndromes - Fluid and protein transport in fetal and newborn lung (sheep, rabbits)
** P50HL-19185-02 0005 Pulmonary SCOR--Neonatal respiratory distress syndromes - Role and mechanism of glucocorticoids in fetal lung maturation (human, rabbit)
P50HL-19187-02 0001 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Changes in lung mechanics and gas exchange (monkeys)
P50HL-19187-02 0003 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Ultrastructure studies (monkey)
** R01HL-19379-03 Characterization of small granule cells in the lung (mammals)
** R23HL-19573-01 Studies on pulmonary serotonin (mice)
** R23HL-19594-01 Tropocollagen and tropoelastin uptake in lung cells (human)
** R23HL-19605-01 Lipid requirement of the lung mono-oxygenase system (rabbits)
** R01HL-19654-03 Biochemical-pharmacological evaluation of fung cells (rabbits)
** R01HL-19668-03 Biochemistry of lung connective tissue (rats)
** R01HL-19684-03 Histotypic lung culture in circumfusion systems (mice)
** P01HL-19717-02 0001 Response of the lung to injury - Lung elastic tissue (animals)
** P01HL-19717-02 0002 Response of the lung to injury - Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)
** P01HL-19717-02 0004 Response of the lung to injury - Regulatory and physical-chemical properties of lung lysyl oxidase (animals)
** P01HL-19717-02 0006 Response of the lung to injury - Glycosaminoglycans and proteoglycans of the lung (human, rats, hamsters)
** P01HL-19717-02 0009 Response of the lung to injury - Time-dependent mechanical properties of lung connective tissues (hamsters)
P01HL-19717-02 0012 Response of the lung to injury - Connective tissue biochemistry and enzyme injury of the lung (hamsters)
** P01HL-19717-02 0020 Response of the lung to injury - Recording of lung sounds in animal models of disease (animals)
** P01HL-19717-02 0023 Response of the lung to injury - Postnatal lung development--Cells, connective tissue and physiology (animals)
P01HL-19737-02 0013 Cellular and molecular aspects of respiratory physiology - Cell metabolism analytical facility
** R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
** R01HL-19836-03 Kinin inhibitors detected by use of receptors (cattle)
** R01HL-20132-03 Histogenesis and biochemistry of embryonic lung (birds)
** R01HL-20344-02 Regulation of protein turnover in lung tissue (rats)
** R01HL-20548-02 Innervation of the lung (rats, monkeys)
** R01HL-20566-02 Lactate metabolism in the lung (rats)
** R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rats)
** R01HL-20635-03 Factors in lung development (rat and chick embryo)
R01HL-20868-02 Regulation of glycoprotein biosynthesis in lung (swine)
R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
P01HL-20994-02 0002 Dynamics of neutrophil elastase in the lung - Neutrophil and neutrophilic elastase in human lungs
P01HL-20994-02 0009 Dynamics of neutrophil elastase in the lung - Biosynthesis and degradation of elastin in emphysema (human, hamsters)
** R01HL-21008-02 Effect of pollutants on organotypic lung cultures (rats)
** R01HL-21076-02 Lung fluid, protein exchange after hemorrhagic shock (sheep)
** R23HL-21089-02 Localization of mediators in dispersed lung cells (guinea pigs, human)
** R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
R01HL-21117-01 Altitude adaptation in chronic lung disease (human)
** R23HL-21189-01 Regulation of pulmonary endothelial cell activities (human, cattle)
** R23HL-21199-02 Sound transmission in lung (dog)
** R23HL-21225-02 Connective tissue precursor molecules in the lung (rabbits, hamsters)
R01HL-21394-02 Pulmonary angiotensin-converting enzyme (rabbits)
** R23HL-21396-02 Isolation, growth and metabolism of type f pnaumocytes (rabbits)
R23HL-21409-02 Perinatal control of the ductus arteriosus (sheep)
** R01HL-21444-02 Pulmonary machanics during postnatal development (human)
** P01HL-21584-02 0001 Respiratory mechanics in normal and abnormal states - Engineering analysis of lung deformation (human, animals)
** R01HL-21612-02 Biochemistry of lung proteoglycans (human, rabbits)
R01HL-21615-01 Structural studies of lung haparinoid polysaccharides (cattle)
** R01HL-21617-02 Biochemistry of lung proteoglycans (rabbits, cattle)
** R01HL-21622-02 Structure and interactions of lung proteoglycans (cattle)
** R01HL-21626-01 Proteoglycans of animal lung parenchyma (cattle, pigs, rabbits)
** R01HL-21641-02 Structural studies of lung proteoglycans (pigs, cattle, rabbits)
** R01HL-21646-02 Biosynthesis of fractionated proteoglycans of lung (rabbits)
** R01HL-21649-01 Biochemistry of lung proteoglycans (mammals)
** R23HL-21855-01 Mathematical models of branching in the human lung
** R23HL-21894-01 Pulmonary angiotensin converting enzyme (cattle)
R23HL-21943-01 Capillary morphology in pulmonary edema (dogs)
R23HL-22011-01 Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs)
** R13HL-22159-01 Conference on non-ventilatory functions of the lungs (New Hampshire)
** R01HL-22178-01 Lung airway properties by acoustic impulse reflection
R01HL-22242-01 The converting enzyme of lung (cattle, human)
** R01HL-22266-01 Production of proteases by lung cells in culture (human, rodents, rabbits, sheep)
** R01HL-22313-01 Lung elastic recoil--Age and disease (human)
R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)
** R01HL-22500-01 Conversion of choline to phosphatidylcholine in lung (rabbits, pigs)
R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
R01HL-22555-01 Structure and function of platelet activating factor (rabbits, human)
** R23HL-22823-01 Phagocytic and immune defense mechanisms of the lung (mice)
R01HL-23981-01 Acute alveolar injury (dogs)
R01HL-23985-01 Role of the diaphragm in regional lung mechanics (dogs)
** N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)
N01HR-62910-02 Fibroprotein networks of pulmonary alveolar wall (human)
** N01HR-62930-03 Lung cell resource facility

RESPIRATORY SYSTEM, LUNG ALVEOLUS

** P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
** P01HL-06285-18 0209 Cardiovascular-respiratory physiology and biochemistry - Metabolic studies of isolated lung cells (human, animals)
P01HL-06370-17 0006 Cardiopulmonary and renal pathology research center - Chemical basis of ultrastructural changes in disease (rats)
** P01HL-06664-17 0043 Cardiopulmonary function in remediable vascular disease - Alveolar hypoxic vasoconstriction--Control and clinical significance (dog, human)
P01HL-07896-15 0021 Environmental biomedical research program - Liquid breathing and lung lavage (human)
P01HL-07896-15 0039 Environmental biomedical research program - Development of resistance to lethal effects of oxygen (rats)
** P01HL-07896-15 0058 Environmental biomedical research program - Lung synthesis of disaturated phosphatidylcholine (rats, dogs, bats)
P01HL-08805-15 0025 Regulation of ventilation and pulmonary circulation - Pulmonary edema (rabbits)
** P01HL-08805-15 0042 Regulation of ventilation and pulmonary circulation - Electron microscope core research laboratory
** P01HL-08805-15 0048 Regulation of ventilation and pulmonary circulation - Permeability of alveolo--Capillary membrane in normal pulmonary hypertensive lung
P01HL-08899-14 0038 Tolerance to respiratory gases in health and disease - Brain vessels change in alveolar arterial gas tensions (human, monkeys)
** R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)
** R01HL-13596-07 Clearance of plasma proteins from alveoli

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

R01HL-13901-08 Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals)
P50HL-14187-07 0015 Pulmonary SCOR–Chemical mediators in pulmonary vascular responses - Pathophysiologic responses of pulmonary capillary bed (dog, human)
P50HL-14214-07 0021 Newborn lung center for hyaline membrane disease - Development of surfactant system--Surfactant production and release (rat, rabbit)
** P50HL-14214-07 0022 Newborn lung center for hyaline membrane disease - Functional integrity of surfactant system–Hyaline membrane disease (lamb, rat)
P50HL-14218-07 0017 Pulmonary SCOR–Newborn lung center - Transvascular fluid exchange, vasoactive mediators in ROS (sheep, cat)
** P01HL-14414-07 0003 Environmental influences on cardiorespiratory and cellular functions - Exposure to abnormal gaseous environments (human, dogs, rabbits)
R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)
P01HL-15194-07 0011 Pathophysiology of cardiopulmonary dysfunction - Distribution of ventilation--Oxygen effects on intrapulmonary shunting (human)
R01HL-15316-07 Lung surfactant system--Control mechanisms (rats)
P01HL-15832-06 0002 Chemical-structural predispositions to lung injury - Connective tissue in lung in development and repair of injury (human, rats, mice)
P01HL-15832-06 0005 Chemical-structural predispositions to lung injury - Pulmonary structure and stress-strain relationships (rats)
P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
P01HL-16118-06 0005 Study of emphysema - Mechanisms of elastase emphysema (mice)
M P01HL-16137-05 Alveolar biology
** P01HL-16137-05 0008 Alveolar biology - Macromolecular events in pulmonary cells in toxic environments (animals)
** P01HL-16137-05 0013 Alveolar biology - Development and pathology of surfactant--Formation of alveolar (rabbits, sheep)
** R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)
R01HL-16725-03 Physiological regulation of pulmonary surfactant (dogs, rats)
R01HL-16784-03 Lung tissue and water volume (human, dogs)
R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
** P01HL-17417-05 0001 Experimental lung transplantation - Mechanisms and mediators of lung allograft rejection (dogs, mice)
P01HL-17417-05 0003 Experimental lung transplantation - Methods for detecting lung allograft rejection (dogs)
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
** P01HL-17731-04 0002 Physiological basis of pulmonary disease - Biomechanics of the lung (frogs, cats)
** R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
R01HL-19008-02 Carbon dioxide diffusion in lung and muscle tissues (dogs)
** R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
R01HL-19018-03 Etiologic factors in cryptogenic fibrosing alveolitis (human)
P50HL-19155-02 0002 Pathophysiology of pulmonary edema - Non-invasive measurement of protein turnover in human lung (also sheep)
P50HL-19155-02 0005 Pathophysiology of pulmonary edema - Protein exchange sites and lymph protein concentration in lung (mice, sheep)
P50HL-19160-02 0002 Mucus abnormality in cystic fibrosis - Ultrastructure, cytochemistry of pulmonary secretion (human, rat)
P50HL-19185-02 0001 Pulmonary SCOR–Neonatal respiratory distress syndromes - Sites of synthesis, secretion and structure of surface active material (rat)
P50HL-19185-02 0002 Pulmonary SCOR–Neonatal respiratory distress syndromes - Biochemistry, ultrastructure--Pulmonary surface active material (human, animal)
** P50HL-19187-02 0003 Pediatric pulmonary SCOR–Hyaline membrane disease - Hyaline membrane disease--Ultrastructure studies (monkey)
P50HL-19187-02 0004 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Surface active material, lamellar bodies (mice, rats)
M P50HL-19190-02 Pulmonary SCOR--Pathophysiology, management of IRDS
** P50HL-19190-02 0003 Pulmonary SCOR–Pathophysiology, management of IROS - Type II cells--Regulation and differentiation (rat)
** P50HL-19190-02 0004 Pulmonary SCOR–Pathophysiology, management of IROS - Type II cells--Control of protein turnover (rabbit)
R01HL-19225-02 0001 Types and mechanims of pulmonary hypertension - Structural changes (human, animals)
R01HL-19225-02 0002 Types and mechanims of pulmonary hypertension - Effect of aorto-pulmonary shunt (pigs)
P50HL-19362-02 0008 A/S SCOR--Atherosclerosis in nonhuman primates - Lung structure and function in cigarette smoking (baboon)
R01HL-19684-03 Histotypic lung culture in circumfusion systems (mice)
P01HL-19717-02 0005 Response of the lung to injury - Studies on proteolysis and lung disease (human, animals)
P01HL-19717-02 0007 Response of the lung to injury - Cellular level studies of prostaglandin-like molecules (cattle)
P01HL-19717-02 0014 Response of the lung to injury - Stereology of epithelialized bronchi in evolving elastase emphysema (hamsters)
** P01HL-19717-02 0024 Response of the lung to injury - Formation of lung alveoli (rats)
** P01HL-19717-02 0025 Response of the lung to injury - Role of oxygen in regulation of lung growth and development (rats)
** P01HL-19717-02 0026 Response of the lung to injury - Protein depletion and postnatal lung development (rats)
** P01HL-19717-02 0027 Response of the lung to injury - Hormone control of lung growth and development (rats)
** P01HL-19717-02 0028 Response of the lung to injury - Compensatory growth of the lung following pneumonectomy (rabbits)
** P01HL-19737-02 0001 Cellular and molecular aspects of respiratory physiology - Fatty acid metabolism in type II alveolar cells (rats)
** P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
P01HL-19737-02 0005 Cellular and molecular aspects of respiratory physiology - Interaction of respiratory exchanges and blood gas parameters (human, animals)
R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
R23HL-20576-01 Airway turbulence and pulmonary oxygen exchange
R01HL-20652-01 Sites of leakage in pulmonary edema (dogs)
R01HL-20773-02 Surfactant, pulmonary edema, and lung mechanics (rabbits)
P01HL-20994-02 0001 Dynamics of neutrophil elastase in the lung - Dynamics of neutrophil elastase in normal animals (dogs, rabbits)
P01HL-20994-02 0007 Dynamics of neutrophil elastase in the lung - The etiology of experimental emphysema (dogs)
R01HL-21008-02 Effect of pollutants on organotypic lung cultures (rats)
** R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)
R23HL-21050-02 Mechanisms of re-expansion pulmonary edema (rabbits)
R01HL-21095-02 Enzymes of M tuberculosis and obstructive lung disease (human, rodents)
R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
R01HL-21176-02 Phospholipid exchange proteins in lung tissue (lambs)
** R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)
** R23HL-21251-01 Metabolism of neutral lipids in the pulmonary alveolus (rabbits)
** R01HL-21376-02 Blood-gas barrier solute and water transport (rabbits)
R23HL-21396-02 Isolation, growth and metabolism of type 1 pneumocytes (rabbits)
R01HL-21568-02 Cell biology of the alveolar-capillary unit (animals)
** R23HL-21853-01 Lung metabolism and alveolo-capillary permeability (rats)
** R01HL-22435-02 Pulmonary alveolar-capillary permeability characteristic (dogs)
R01HL-22463-02 Pinocytotic vesicles and pulmonary edema (rats)
** R01HL-22549-02 Transport across alveolar capillary membrane (dogs)
** R01HL-22552-02 Abnormal alveolar permeability and lung disease (sheep)
R01HL-22843-01 Pulmonary physiology in liquid ventilation (lambs)
** R01HL-22883-01 Lung epithelial cell interactions in vitro
R01HL-22911-01 Mechanism of clearance of lung edema fluid (dogs)
R23HL-22932-01 Effect of carbon dioxide on local gas exchange (dogs)
R01HL-23969-01 Surfactant synthesis by type II cells in vitro (rats)
** R01HL-23981-01 Acute alveolar injury (dogs)
** N01HR-62910-02 Fibroprotein networks of pulmonary alveolar wall (human)

RESPIRATORY SYSTEM, PULMONARY STRETCH RECEPTORS

R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
R01HL-13888-15 Regulation of respiration
P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
P01HL-14985-07 0008 Adaptation to hypoxia - Ventilatory drive and exercise capacity (human, dogs)
R01HL-16430-05 Neural control of respiration (cats)
P01HL-16878-05 0003 Control of ventilation in health and disease - Brain stem respiratory neurons in response mechanical/chemical loading (animal)
P50HL-19156-02 0005 Pulmonary SCOR–Chronic diseases of airways - Vagal receptors in the airway–Epithelial injury and antigen (dog, cat, rabbit)
R01HL-19827-02 Role of the upper airways in the control of breathing (human, cats, dogs)
** R01HL-20122-02 Operational mechanisms of airway receptors (dogs, pigs)
** R23HL-21042-01 Cardiopulmonary reflexes and their anatomical basis (dogs)
P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)

RESPIRATORY SYSTEM, PULMONARY SURFACTANT

** R01HL-01770-26 Structural aspects of lung surfactant system (rats)
** P01HL-06285-18 0208 Cardiovascular-respiratory physiology and biochemistry - Composition, properties and turnover of pulmonary surfactant (human, animals)
** P01HL-06285-18 0209 Cardiovascular-respiratory physiology and biochemistry - Metabolic studies of isolated lung cells (human, animals)
** P01HL-06285-18 0210 Cardiovascular-respiratory physiology and biochemistry - Physicochemical and enzymatic studies of lung surfactant (Halobacterium)
P01HL-06285-18 0213 Cardiovascular-respiratory physiology and biochemistry - Membrane structure and function--Gas vacuole membrane (Halobacterium)
** R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
** R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)
P50HL-14136-07 0001 Pulmonary SCOR–Airways obstructive diseases - Experimental airway obstructive disease (dogs)
P50HL-14153-07 0016 Johns Hopkins Lung Center--Chronic diseases of airways - Airways defense mechanisms (dogs)
P50HL-14212-07 0014 Correlated studies of pulmonary fibrosis - Pulmonary lavage cells, secretions in diffuse intersititial lung disease (human)
P50HL-14214-07 0015 Newborn lung center for hyaline membrane disease - Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal)
P50HL-14214-07 0020 Newborn lung center for hyaline membrane disease - Epidermal growth factor effect--Lung differentiation, maturation (human, rabbit)
** P50HL-14214-07 0021 Newborn lung center for hyaline membrane disease - Development of surfactant system--Surfactant production and release (rat, rabbit)
** P50HL-14214-07 0022 Newborn lung center for hyaline membrane disease - Functional integrity of surfactant system--Hyaline membrane disease (lamb, rat)
P50HL-14214-07 0030 Newborn lung center for hyaline membrane disease - Effects of ductal patency--Impedance cardiography and echocardiography (human)
R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
** R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
R01HL-14854-07 Lung and tissue mechanics (monkeys, dogs)
** R01HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
** R01HL-15316-07 Lung surfactant system--Control mechanisms (rats)
P01HL-15832-06 0005 Chemical-structural predispositions to lung injury - Pulmonary structure and stress-strain relationships (rats)
M P01HL-16137-05 Alveolar biology
** P01HL-16137-05 0001 Alveolar biology - Chemical characterization of surfactant system–Lipid and lipid protein fractions
** P01HL-16137-05 0004 Alveolar biology - Subcellular processes and controls in the surfactant system (animals)
P01HL-16137-05 0008 Alveolar biology - Macromolecular events in pulmonary cells in toxic environments (animals)
** P01HL-16137-05 0013 Alveolar biology - Development and pathology of surfactant–Formation of alveolar (rabbits, sheep)
** R01HL-16725-03 Physiological regulation of pulmonary surfactant (dogs, rats)
P01HL-16748-05 0001 Cellular and immunological basis of pulmonary diseases - Mechanisms of alveolar macrophage function and dysfunction (human, rabbits)
P01HL-16748-05 0004 Cellular and immunological basis of pulmonary diseases - Cellular and immunological processes in pulmonary defense systems

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

P01HL-16769-05 0009 Pathobiologic and host defense reactions in the lung - Electron microscopy and tissue culture core laboratory
** R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
** R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)
** R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
** R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
P50HL-19171-02 0010 Pulmonary SCOR--Lung injury by childhood infections - Metabolic pathways of normal and injured respiratory cells
M P50HL-19185-02 Pulmonary SCOR--Neonatal respiratory distress syndromes
** P50HL-19185-02 0001 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sites of synthesis, secretion and structure of surface active material (rat)
** P50HL-19185-02 0002 Pulmonary SCOR--Neonatal respiratory distress syndromes - Biochemistry, ultrastructure--Pulmonary surface active material (human, animal)
** P50HL-19185-02 0003 Pulmonary SCOR--Neonatal respiratory distress syndromes - Factors affecting formation and release of pulmonary surfactant in fetal lambs
P50HL-19185-02 0005 Pulmonary SCOR--Neonatal respiratory distress syndromes - Role and mechanism of glucocorticoids in fetal lung maturation (human, rabbit)
P50HL-19185-02 0006 Pulmonary SCOR--Neonatal respiratory distress syndromes - Evaluation of risk factors in neonatal respiratory distress (human, sheep)
M P50HL-19187-02 Pediatric pulmonary SCOR--Hyaline membrane disease
P50HL-19187-02 0001 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Changes in lung mechanics and gas exchange (monkeys)
** P50HL-19187-02 0002 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Alterations in surface active material (monkeys)
P50HL-19187-02 0003 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Ultrastructure studies (monkey)
** P50HL-19187-02 0004 Pediatric pulmonary SCOR--Hyaline membrane disease - Hyaline membrane disease--Surface active material, lamellar bodies (mice, rats)
M P50HL-19190-02 Pulmonary SCOR--Pathophysiology, management of IROS
** P50HL-19190-02 0003 Pulmonary SCOR--Pathophysiology, management of IRDS - Type II cells--Regulation and differentiation (rat)
** P50HL-19190-02 0004 Pulmonary SCOR--Pathophysiology, management of IROS - Type II cells--Control of protein turnover (rabbit)
R01HL-19195-03 Hormonal regulation of lung function (rats)
** R01HL-19669-03 Lung organ culture and surfactant biosynthesis (adult and fetal rats)
** R01HL-19676-02 Physico-chemical interactions in pulmonary surfactant
R01HL-19685-03 Pathogenesis of inflammation of the lung (guinea pigs)
P01HL-19737-02 0001 Cellular and molecular aspects of respiratory physiology - Fatty acid metabolism in type II alveolar cells (rats)
** P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
R01HL-19752-03 Phospholipid synthesis by fetal lung in organ culture (rats)
** R01HL-20366-03 Protein turnover and amino acid transport by lung (rats)
R01HL-20652-01 Sites of leakage in pulmonary edema (dogs)
R01HL-20773-02 Surfactant, pulmonary edema, and lung mechanics (rabbits)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
R01HL-20868-02 Regulation of glycoprotein biosynthesis in lung (swine)
** R01HL-21008-02 Effect of pollutants on organotypic lung cultures (rats)
** R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)
** R01HL-21140-01 Studies of pulmonay alveolar macrophage function (rabbits)
** R01HL-21176-02 Phospholipid exchange proteins in lung tissue (lambs)
** R23HL-21251-01 Metabolism of neutral lipids in the pulmonary alveolus (rabbits)
** R01HL-21628-02 Biosynthesis of lung surfactant lipid (rabbit)
** R01HL-22333-01 Cellular basis of small airways function (rats)
R01HL-22552-02 Abnormal alveolar permeability and lung disease (sheep)
R01HL-22723-01 The morphologic basis of airflow obstruction (human)
R23HL-22895-01 Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria)
** R01HL-23969-01 Surfactant synthesis by type II cells in vitro (rats)
R01HL-23981-01 Acute alveolar injury (dogs)

RESPIRATORY SYSTEM, TRACHEA

SEE ALSO RESPIRATORY DISORDERS, LARYNGOTRACHEITIS
P01HL-06285-18 0189 Cardiovascular-respiratory physiology and biochemistry - Mucociliary clearance (cats, dogs)
P50HL-14153-07 0016 Johns Hopkins Lung Center--Chronic diseases of airways - Airways defense mechanisms (dogs)
** P50HL-15061-07 0005 Response of lung to injury - Airway smooth muscle in health and disease (dogs, guinea pigs)
R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)
R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
P50HL-19160-02 0002 Mucus abnormality in cystic fibrosis - Ultrastructure, cytochemistry of pulmonary secretion (human, rat)
P50HL-19171-02 0009 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Scanning electron microscopy, freeze-fracture methods
P50HL-19171-02 0010 Pulmonary SCOR--Lung injury by childhood infections - Metabolic pathways of normal and injured respiratory cells
R01HL-19431-03 Regional mucociliary transport in the human lung
** R01HL-20184-02 Desensitization of tracheal muscle to isoproterenol (rats, rabbits)
R01HL-20868-02 Regulation of glycoprotein biosynthesis in lung (swine)
** R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
R23HL-21199-02 Sound transmission in lung (dog)
R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)
** R23HL-21369-02 Tracheal mucin synthesis in experimental bronchitis (rats)
R01HL-21612-02 Biochemistry of lung proteoglycans (human, rabbits)
** R01HL-22924-01 The airway mucosal barrier (guinea pigs)

RESPIRATORY SYSTEM PHARMACOLOGY

SEE ALSO RESPIRATORY DISORDERS CHEMOTHERAPY
P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
P01HL-06285-18 0189 Cardiovascular-respiratory physiology and biochemistry - Mucociliary clearance (cats, dogs)
P01HL-06285-18 0190 Cardiovascular-respiratory physiology and biochemistry - Maximal (airway) flow (human, dogs)
P01HL-06285-18 0209 Cardiovascular-respiratory physiology and biochemistry - Metabolic studies of isolated lung cells (human, animals)
P01HL-06664-17 0043 Cardiopulmonary function in remediable vascular disease - Alveolar hypoxic vasoconstriction--Control and clinical significance (dog, human)
P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
** P01HL-08805-15 0047 Regulation of ventilation and pulmonary circulation - Extracranial metabolic control of ventilation (dogs, goats)
** P01HL-10342-13 0024 The integrated function of respiration and circulation - Cytochrome P450 and physiological response to hypoxia (rats)
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)
R01HL-10834-09 Fetal and neonatal pulmonary circulation (goats)
P50HL-14136-07 0001 Pulmonary SCOR--Airways obstructive diseases - Experimental airway obstructive disease (dogs)
** P50HL-14153-07 0011 Johns Hopkins Lung Center--Chronic diseases of airways - Allergy, airways reactivity and asthma in human ragweed allergy
** P50HL-14153-07 0013 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary mechanics and mediators of allergic reactions (guinea pigs, human)
** P50HL-14153-07 0014 Johns Hopkins Lung Center--Chronic diseases of airways - Mediator release in asthma (human)
P50HL-14153-07 0017 Johns Hopkins Lung Center--Chronic diseases of airways - Collateral ventilation and pulmonary interdependence (pig, dog, human)
M P50HL-14187-07 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses
** P50HL-14187-07 0012 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Vasoactive mediators in pulmonary disease (human, animal)
P50HL-14187-07 0014 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Metabolism and actions of vasoactive peptides in lung (human, mammals)
P50HL-14214-07 0025 Newborn lung center for hyaline membrane disease - Pulmonary vascular permeability and lung water--Hyaline membrane disease (sheep)
** R01HL-14262-07 Leukocyte proteases and their lung targets (human, dogs, rabbits)
R01HL-14271-07 Physico-chemical properties of tracheal mucus (dogs, frogs)
R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
M P01HL-14985-07 Adaptation to hypoxia
P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
R01HL-15002-07 Biochemical pharmacology of guanylate cyclase in lung (cattle, rats)
P50HL-15092-07 0005 Immune and fibrotic response to occupational environments - Respiratory and immunologic evaluation of toluene diisocyanate exposure (human)
R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)
R01HL-17322-04 Functional characteristics of smooth muscle isolated from lung (animals)
P01HL-17382-05 0001 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in humans
P01HL-17382-05 0002 Chemical mediators of acute pulmonary disorders - Chemical mediators and respiratory mechanics in guinea pigs
R01HL-17768-04 Development of collateral ventilation (dogs, fish, horses)
** R01HL-18070-04 Regulation of intrapulmonary airways and vessels (human, animals)
R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)
** R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
R01HL-18679-04 Synthetic protease inhibitors
** R01HL-19115-02 Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs)
P50HL-19153-02 0001 SCOR--Pulmonary edemas--Etiology, pathogenesis - Prostaglandins and the lung circulation (sheep)
P50HL-19153-02 0002 SCOR--Pulmonary edemas--Etiology, pathogenesis - Lung fluid dynamics--Classical mediators and their inhibitors (sheep)
P50HL-19153-02 0003 SCOR--Pulmonary edemas--Etiology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
** P50HL-19156-02 0001 Pulmonary SCOR--Chronic diseases of airways - Irritability of airways induced by epithelial damage in healthy subjects (human)
** P50HL-19156-02 0004 Pulmonary SCOR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
P50HL-19156-02 0005 Pulmonary SCOR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
P50HL-19160-02 0001 Mucus abnormality in cystic fibrosis - Regulation of respiratory secretions (rat, human)
P50HL-19160-02 0002 Mucus abnormality in cystic fibrosis - Ultrastructure, cytochemistry of pulmonary secretion (human, rat)
** P50HL-19170-02 0003 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanisms of bronchial reactivity to acute and chronic airway challenge (dog)
P50HL-19185-02 0003 Pulmonary SCOR--Neonatal respiratory distress syndromes - Factors affecting formation and release of pulmonary surfactant in fetal lambs
P50HL-19185-02 0004 Pulmonary SCOR--Neonatal respiratory distress syndromes - Fluid and protein transport in fetal and newborn lung (sheep, rabbits)
R01HL-19225-02 0003 Types and mechanims of pulmonary hypertension - Cardiopulmonary function in pigs and rats
R01HL-19431-03 Regional mucociliary transport in the human lung
** R01HL-19633-02 Pathogenesis and pharmacology of lung fibrosis (rats, rabbits)
** R01HL-19654-03 Biochemical-pharmacological evaluation of lung cells (rabbits)
R01HL-19700-03 Deposition of hygroscopic aerosols (models)
R01HL-19704-03 Aerosol therapy (models, dogs, human)
R01HL-19715-02 Respiratory tract deposition of hygroscopic aerosols (dogs, human)
R01HL-19722-03 Aerosol growth in the respiratory system (models)
R01HL-19779-03 Biochemical basis of oxygen damage to lung cells (guinea pigs, rats)
** R01HL-20024-03 Therapeutic aerosols--Characteristics and retention (human, dogs)
** R01HL-20087-02 Developmental processes in pulmonary hypertension (rats)
R01HL-20352-02 Defenses of lung cells against oxygen toxicity (human, animals)
** R01HL-20989-01 Pathophysiology of bronchial asthma (sheep, dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-20994-02 0008 Dynamics of neutrophil elastase in the lung - Structure-function correlation in experimental emphysema (humani dogs)
R01HL-21076-02 Lung fluid, protein exchange after hemorrhagic shock (sheep)
R01HL-21126-02 Exercise-induced bronchospasm in children
R23HL-21251-01 Metabolism of neutral lipids in the pulmonary alveolus (rabbits)
R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)
R23HL-21539-02 Mechanical properties of isolated small bronchioles (rabbits)
** P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)
R01HL-22177-02 Mechanisms of control of pulmonary smooth muscle (dogs)
R01HL-22333-01 Cellular basis of small airways function (rats)
R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)
** R01HL-22911-01 Mechanism of clearance of lung edema fluid (dogs)
R01HL-23981-01 Acute alveolar injury (dogs)

RESPIRATORY SYSTEM PRESERVATION, LUNG PRESERVATION

** P01HL-17417-05 0006 Experimental lung transplantation - Bronchial anastomotic problems and increases donor lung availability (dog)
** R01HL-17944-03 Studies in lung preservation (dogs)
R01HL-18143-03 Surgery and pulmonary tissue alterations (dogs, rats, human)
** N01HR-62930-03 Lung cell resource facility

RESPIRATORY SYSTEM PROSTHESIS, PROSTHETIC LUNG

** R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
** R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
** R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
** R01HL-16582-05 Artificial lungs (dogs)
P01HL-19737-02 0010 Cellular and molecular aspects of respiratory physiology - Effects of pulsatile flow and volume on capillary exchanges (dogs, rats)

RESPIRATORY SYSTEM REFLEXES

SEE ALSO BRAIN, RESPIRATDRY CENTER
SEE ALSD RESPIRATDRY FUNCTION, HYPOVENTILATION, RESPIRATDRY CENTER OYSFUNCTION

P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
P01HL-06285-18 0188 Cardiovascular-respiratory physiology and biochemistry - Physiology and pharmacology in regulation of airways-hyperirritability (animals)
R01HL-08789-11 Respiratory muscles and ventilatory control in man (and dogs)
P50HL-14153-07 0013 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary mechanics and mediators of allergic reactions (guinea pigs, human)
** P50HL-14214-07 0027 Newborn lung center for hyaline membrane disease - Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep)
** P50HL-14214-07 0029 Newborn lung center for hyaline membrane disease - The diving reflex--Perinatal asphyxia, pulmonary ischemia and HMD (sheep)
** P01HL-14580-07 0003 Program project in respiratory mechanics - Chest wall mechanics and respiratory control (human, dogs)
R01HL-16430-05 Neural control of respiration (cats)
M P01HL-16878-05 Control of ventilation in health and disease
P01HL-16878-05 0001 Control of ventilation in health and disease - Ability of asthmatics to detect added resistive and elastic loads
P01HL-16878-05 0003 Control of ventilation in health and disease - Brain stem respiratory neurons in response mechanical/chemical loading (animal)
** R01HL-17800-04 Pulmonary reflexes--Central pathways (cats, dogs, rabbits)
R01HL-18007-05 Neural mechanisms controling motor act of breathing (cats, human)
P50HL-19155-02 0001 Pathophysiology of pulmonary edema - Pulmonary edema study unit (human, dog)
M P50HL-19156-02 Pulmonary SCDR--Chronic diseases of airways
P50HL-19156-02 0001 Pulmonary SCOR--Chronic diseases of airways - Irritability of airways induced by epithelial damage in healthy subjects (human)
** P50HL-19156-02 0004 Pulmonary SCDR--Chronic diseases of airways - Interactions between mast cells, mediators and nerves in canine asthma
** P50HL-19156-02 0005 Pulmonary SCDR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
P50HL-19170-02 0006 Harvard pulmonary SCDR--Chronic diseases of the airways - Mechanism of overdistension (human, animal)
** P50HL-19170-02 0008 Harvard pulmonary SCDR--Chronic diseases of the airways - Multiple-transient artificial coughing (dogs, human)
** R01HL-23601-01 Early hypoxia and development of respiratory control

RESPIRATORY SYSTEM SURGERY

P01HL-06312-17 0053 Surgical cardiology - Enzyme pattern following cardiac surgery (human)
R01HL-16916-04 0011 The role of albumins in lung water accumulation - Whole body distribution and exchange of albumin (rabbits, human, monkeys)
P01HL-17417-05 0006 Experimental lung transplantation - Bronchial anastomotic problems and increases donor lung availability (dog)
** R01HL-18143-03 Surgery and pulmonary tissue alterations (dogs, rats, human)

RESPIRATORY SYSTEM SURGERY, PNEUMONECTOMY

P50HL-15061-07 0004 Response of lung to injury - Biochemical abnormalities in connective tissues (rats)
R01HL-18143-03 Surgery and pulmonary tissue alterations (dogs, rats, human)
P01HL-19717-02 0004 Response of the lung to injury - Regulatory and physical-chemical properties of lung lysyl oxidase (animals)
** P01HL-19717-02 0028 Response of the lung to injury - Compensatory growth of the lung following pneumonectomy (rabbits)

RESPIRATORY SYSTEM TOXINS

SEE RESPIRATORY DISDROERS, RESPIRATDRY SYSTEM TOXINS

RESPIRATORY SYSTEM TRANSPLANTATION, LUNG TRANSPLANTATION

SEE ALSO RESPIRATDRY SYSTEM PRESERVATION, LUNG PRESERVATIDN

** R01HL-08696-15 0020 Orthotopic heart transplantation - Complete cardiopulmonary transplantation (dogs)
** R01HL-13987-04 Transplantation of the lung (dogs)
M P01HL-17417-05 Experimental lung transplantation
** P01HL-17417-05 0001 Experimental lung transplantation - Mechanisms and mediators of lung allograft rejection (dogs, mice)
** P01HL-17417-05 0003 Experimental lung transplantation - Methods for detecting lung allograft rejection (dogs)
** P01HL-17417-05 0004 Experimental lung transplantation - Methods for suppressing lung allograft rejection (dogs, mice)
** P01HL-17417-05 0005 Experimental lung transplantation - Lung transplantation in bilateral emphysema (dogs)
** P01HL-17417-05 0006 Experimental lung transplantation - Bronchial anastomotic problems and increases donor lung availability (dog)
** R01HL-17944-03 Studies in lung preservation (dogs)
R01HL-18143-03 Surgery and pulmonary tissue alterations (dogs, rats, human)

RESPIRATORY TUBERCULOSIS

SEE BACTERIAL OISEASES, ACTINOMYCETALES INFECTIONS, TUBERCULOSIS

RESPIRATORY VIRUSES

SEE VIRUSES, RESPIRATDRY (GENERAL)

RESPIRATORY VISUALIZATION*

** P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
P50HL-14136-07 0004 Pulmonary SCOR--Airways obstructive diseases - Morphometric studies of developing emphysema (human)
** P50HL-14136-07 0005 Pulmonary SCOR--Airways obstructive diseases - Radiographic studies of airways obstructive disease (human)
** P50HL-14136-07 9004 Pulmonary SCOR--Airways obstructive diseases - Radiology core (human)
** P50HL-14187-07 0008 Pulmonary SCDR--Chemical mediators in pulmonary vascular responses - Pulmonary thromboembolism (dogs, human)
P01HL-14580-07 0001 Program project in respiratory mechanics - Micromechanics of the lung (dogs, rats)
P50HL-15092-07 0013 Immune and fibrotic response to occupational environments - Epidemiology core resource
** R01HL-22844-01 Phrenic nerve pacing--Noninvasive diaphragm analysis (human, dogs)

RESPIRATORY VISUALIZATION, BRONCHOGRAPHY*

** P50HL-14136-07 0005 Pulmonary SCOR--Airways obstructive diseases - Radiographic studies of airways obstructive disease (human)
P50HL-14136-07 9004 Pulmonary SCOR--Airways obstructive diseases - Radiology core (human)
** P50HL-19156-02 0003 Pulmonary SCDR--Chronic diseases of airways - Powdered tantalum to study airway morphology and mucociliary clearance (human)

RESPIRATORY VISUALIZATION, BRONCHOSCOPY*

R01HL-13885-08 9002 Cystic fibrosis and pulmonary disease - Computer core facility (human)
** R01HL-13885-08 9003 Cystic fibrosis and pulmonary disease - Fiberoptic bronchoscopy core facility (human, dogs, sheep)
R01HL-20192-02 Ciliary activity of the lung studied by laser scattering

RESPIRATORY VISUALIZATION, LUNG SCANNING*

M P01HL-04664-18 Cardiovascular and lung dynamics
P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
P01HL-04664-18 0009 Cardiovascular and lung dynamics - Biological signal and image processing techniques (dogs)
P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
P01HL-04664-18 0016 Cardiovascular and lung dynamics - Computerized roentgenographic determination of total lung capacity
** R01HL-10009-13 Regional lung function in man
R01HL-12833-09 Genetic and environmental influences on lung disease (human)
R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
R01HL-13824-06 Defense mechanisms in pathogenesis of emphysema (human, dogs)
P50HL-14187-07 0008 Pulmonary SCOR--Chemical mediators in pulmonary vascular responses - Pulmonary thromboembolism (dogs, human)
R01HL-15607-06 Physiological control of splanchnic circulation (dogs)
** R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
R01HL-18968-03 Computer technology for transaxial tomography
M P01HL-19717-02 Response of the lung to injury
** P01HL-19717-02 0021 Response of the lung to injury - Gallium lung scans in fibrosing alveolitis (hamsters)
** P01HL-19717-02 0039 Response of the lung to injury - Lung scanning in alveolitis and asbestolic interstitial pneumonia (human, animal)
** P01HL-19717-02 0043 Response of the lung to injury - Asbestosis as a model of usual interstitial pneumonia (human)
** P01HL-19717-02 0044 Response of the lung to injury - Lung sound analysis (human)
P01HL-19717-02 0046 Response of the lung to injury - Bioengineering section
** R01HL-21518-01 Improvement in regional ventilation-perfusion resolution (human)
R01HL-22852-01 Oiagnostic techniques in venous thromboembolism (human)

RESPONSE

SEE STIMULUS-RESPONSE (GENERAL)

REST

SEE HEALTH, PHYSICAL ACTIVITY, REST

RESTIM

SEE BLDOO ANO RE SYSTEM, RE STIMULATING FACTORS

RESTRICTION ENDONUCLEASES

SEE NUCLEASES, ENDONUCLEASES (GENERAL)

RESUSCITATION, ARTIFICIAL RESPIRATION

SEE RESPIRATORY ASSIST AND OXYGEN AOMINISTRATION, ARTIFICIAL RESPIRATION

RESUSCITATION, HEART

SEE HEART RESUSCITATION

RETICULAR FORMATION

SEE BRAIN, RETICULAR FORMATION

RETICULOCYTES

SEE BLODD CELLS, ERYTHROCYTES, RETICULOCYTES

RETICULOENDOTHELIAL STIMULATING FACTORS

SEE BLOOD AND RE SYSTEM, RE STIMULATING FACTORS

RETICULOENDOTHELIAL SYSTEM

SEE BLDOD AND RE SYSTEM, RETICULOENDOTHELIAL SYSTEM (GENERAL)

RETICULOSPINAL TRACT

SEE NERVOUS SYSTEM CENTRAL, RETICULOSPINAL TRACT

RETINA

SEE EYE, RETINA

RETINA DETACHMENT

SEE EYE DISORDERS, RETINA AND CHDRDIO DISDRDERS, RETINA DETACHMENT

RETINA DISORDERS

SEE EYE DISORDERS, RETINA AND CHDROID DISDROERS (GENERAL)

RETINAL, BACTERIAL

SEE PIGMENTS, BACTERIAL, BACTERIDRHDDDPSIN-RETINAL

RETINAL ARTERIES

SEE EYE CIRCULATION, RETINAL ARTERIES

*Excludes routine methodology OR covers only general projects which Preclude indexing at the specific level.
**Onented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

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RETINAL-CHOROIDAL CIRCULATION
SEE EYE CIRCULATION, RETINAL CHOROIDAL CIRCULATION

RETINAL CIRCULATORY DISORDERS
SEE EYE CIRCULATORY DISORDERS, RETINAL CIRCULATORY DISORDERS

RETINAL HEMORRHAGE
SEE EYE CIRCULATORY DISORDERS, RETINAL (INCLUDING VITREOUS) HEMORRHAGE

RETINOGRAPHY
SEE EYE DISORDERS DIAGNOSIS, RETINOGRAPHY*

RETINOIC ACID
SEE VITAMIN A ACID

RETINOL
SEE VITAMIN A

RETRANSPLANTATION
SEE TISSUE COMPATIBILITY-TRANSPLANT, RETRANSPLANTATION

RETRIEVAL, INFORMATION
SEE INFORMATION SYSTEMS, INFORMATION RETRIEVAL

RETROLENTAL FIBROPLASIA
SEE EYE DISORDERS, RETROLENTAL FIBROPLASIA

REVASCULARIZATION HEART
SEE HEART REVASCULARIZATION

REVASCULARIZATION KIDNEY
SEE KIDNEY SURGERY, KIDNEY REVASCULARIZATION

REVASCULARIZATION MYOCARDIAL
SEE HEART REVASCULARIZATION

REVASCULARIZATION NON-SURGICAL
SEE CARDIOVASCULAR SYSTEM, BLOOD SUPPLY, REVASCULARIZATION NON-SURGICAL

REVASCULARIZATION SURGICAL
SEE CARDIOVASCULAR SURGERY, REVASCULARIZATION SURGICAL

REWARDS AND NON-REWARDS
SEE PSYCHOLOGY, MOTIVATION, REWARDS AND NON-REWARDS

RH ANTIBODIES
SEE BLOOD GROUPS ISOANTIBODIES, RH ANTIBODIES

RH FACTORS
SEE BLOOD GROUPS, RH SYSTEM

RH SYSTEM
SEE BLOOD GROUPS, RH SYSTEM

RHEOLOGY AIR
SEE PHYSICAL PROPERTIES, RHEOLOGY (NOT INCL. BLOOD)

RHEOLOGY BODY FLUIDS OTHER THAN BLOOD
SEE PHYSICAL PROPERTIES, RHEOLOGY (NOT INCL. BLOOD)

RHEOLOGY, BLOOD
SEE BLOOD RHEOLOGY

RHEOLOGY GASES
SEE PHYSICAL PROPERTIES, RHEOLOGY (NOT INCL. BLOOD)

RHEOLOGY LIQUIDS
SEE BLOOD AND RE SYSTEM, LYMPH FLOW
SEE CARDIOVASCULAR FUNCTION, BLOOD FLOW
SEE PHYSICAL PROPERTIES, FLUID FLOW

RHEOLOGY (NOT INCL. BLOOD)
SEE PHYSICAL PROPERTIES, RHEOLOGY (NOT INCL. BLOOD)

RHEOLOGY PLASTIC FLOW OF SOLIDS
SEE PHYSICAL PROPERTIES, RHEOLOGY (NOT INCL. BLOOD)

RHEOLOGY SKIN
SEE PHYSICAL PROPERTIES, RHEOLOGY (NOT INCL. BLOOD)

RHESUS MONKEYS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), OLD WORLD MONKEYS, MACACA SP., MACACA MULATTA*

RHEUMATIC DISORDERS
SEE CONNECTIVE TISSUE DISORDERS, RHEUMATIC DISORDERS

RHEUMATIC FEVER
SEE BACTERIAL DISEASES, STREPTOCOCCAL INFECTIONS, RHEUMATIC FEVER

RHEUMATIC HEART DISEASE
SEE HEART DISORDERS, RHEUMATIC HEART DISEASE

RHEUMATOID ARTHRITIS
SEE SKELETAL DISORDERS, ARTHRITIS, RHEUMATOID

RHINITIS
SEE NASAL DISORDERS, RHINITIS

RHODOPSIN, BACTERIAL
SEE PIGMENTS, BACTERIAL, BACTERIORHODOPSIN-RETINAL

RHODOTOXINS
SEE TOXICOLOGY, PLANT POISONS, GRAYANOTOXINS

RIBOFLAVIN
SEE FLAVIN NUCLEOSIDES, RIBOFLAVIN

RIBONUCLEASE
SEE NUCLEASES, RIBONUCLEASE

RIBONUCLEIC ACID(S)
SEE NUCLEIC ACIDS, RNA

RIBONUCLEIC ACID POLYMERASE
SEE NUCLEOTIDYLTRANSFERASES, RNA NUCLEOTIDYLTRANSFERASES

RIBONUCLEIC ACIDS REPLICATION
SEE NUCLEIC ACIDS SYNTHESIS, RNA

RIBONUCLEOPROTEINS
SEE NUCLEOPROTEINS, RIBONUCLEOPROTEINS

RIBONUCLEOSIDE TRIPHOSPHATE RNA NUCLEOTIDYLTRANSFERASE
SEE NUCLEOTIDYLTRANSFERASES, RNA NUCLEOTIDYLTRANSFERASES

5'-RIBONUCLEOTIDE PHOSPHOHYDROLASES
SEE PHOSPHOMONOESTERASES, 5'-NUCLEOTIDASE

RIBOPOLYNUCLEOTIDES
SEE NUCLEOTIDES, RIBOPOLYNUCLEOTIDES

RIBOSOMAL RNA
SEE NUCLEIC ACIDS, RRNA

RIBOSOMES
SEE CELL COMPONENTS, RIBOSOMES

RIBS
SEE SKELETAL SYSTEM, RIBS

RILEY DAY SYNDROME
SEE CONGENITAL ABNORMALITIES, NEUROLOGICAL, DYSAUTONOMIA FAMILIAL

RILEY VIRUS
SEE VIRUSES, TOGAVIRUSES, RILEY VIRUS

RISK, DISEASE PRONENESS
SEE DISEASE PRONENESS-RISK

RISTOCETIN A
SEE ANTIBIOTICS, RISTOCETIN A

RNA
SEE NUCLEIC ACIDS, RNA

RNA BIOSYNTHESIS
SEE NUCLEIC ACIDS SYNTHESIS, RNA

RNA METHYLATED
SEE NUCLEIC ACIDS, METHYLATED RNA

RNA NUCLEOTIDYLTRANSFERASE
SEE NUCLEOTIDYLTRANSFERASES, RNA NUCLEOTIDYLTRANSFERASES

RNA POLYMERASE
SEE NUCLEOTIDYLTRANSFERASES, RNA NUCLEOTIDYLTRANSFERASES

RNA REPLICATION
SEE NUCLEIC ACIDS SYNTHESIS, RNA

RNA VIRAL
SEE NUCLEIC ACIDS, RNA VIRAL

RNA VIRUSES (GENERAL)
SEE VIRUSES, RNA VIRUSES (GENERAL)

RNCI-2 VIRUSES
SEE VIRUSES, ONCORNA, LEUKEMIA MOUSE RAUSCHER

RODS, GRAM-NEGATIVE
SEE BACTERIA, GRAM-NEGATIVE*

ROENTGEN VIDEODENSITOMETRY
SEE CARDIOVASCULAR VISUALIZATION, ROENTGEN VIDEODENSITOMETRY*

ROSETTE TEST
SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNE ADHERENCE REACTION

ROUTE OF ADMINISTRATION
SEE DOSAGE AND ROUTE, ROUTE OF ADMINISTRATION

ROUTE OF NUTRIENT ADMINISTRATION
SEE NUTRITION, DIET SCHEDULE AND ROUTE

RRNA
SEE NUCLEIC ACIDS, RRNA

RUBBER
SEE PLASTICS, RUBBER

RUBIDIUM
SEE METALS, ALKALI METALS, RUBIDIUM

RUBIDIUM RADIOISOTOPES (81,86)
SEE RADIOISOTOPES, RUBIDIUM

RUBIDOMYCIN
SEE ANTIBIOTICS, DAUNOMYCIN

RUMEN BACTERIA
SEE BACTERIA, ENTERIC, RUMEN BACTERIA*

RURAL AREAS
SEE SOCIOENVIRONMENT, RURAL AREAS

RUTHENIUM
SEE METALS, HEAVY METALS, RUTHENIUM

RYANIA ALKALOIDS
SEE ALKALOIDS, RYANIA

S-A NODE
SEE HEART, CONDUCTION SYSTEM, SINOATRIAL NODE

SAFETY OF DIAGNOSTIC PROCEDURES
SEE DIAGNOSTIC QUALITY-STANDARDS, DIAGNOSTIC PROCEDURES SAFETY

SAFETY OF MEDICAL EQUIPMENT
SEE BIOMEDICAL ENGINEERING, MEDICAL EQUIPMENT SAFETY

SALBUTAMOL
SEE PHENYLALKYLAMINES, SALBUTAMOL

SALICYLATES
SEE PHENYLCARBOXYLATES, SALICYLATES

SALICYLAZOSULFAPYRIDINE
SEE SULFANILAMIDES, SALICYLAZOSULFAPYRIDINE

SALINE SOLUTIONS
RD1HL-1D622-12 Volumes and compliance of pulmonary circulation (human, dogs)
P50HL-14214-D7 0D27 Newborn lung center for hyaline membrane disease - Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep)

SALIVA
SEE ORAL-PHARYNGEAL, SALIVA

SALIVARY GLANDS
SEE ORAL-PHARYNGEAL, SALIVARY GLANDS

SALIVARY GLAND VIRUSES
SEE VIRUSES, HERPESVIRUSES, CYTOMEGALOVIRUSES

SALIVATION
SEE ORAL-PHARYNGEAL, SALIVATION

SALT BACTERIA
SEE BACTERIA, HALOBACTERIACEAE*

SALT-FREE DIET
SEE NUTRITION, DIET THERAPEUTIC, SALT RESTRICTED

SALT GLAND
SEE BODY FLUID BALANCE, IONIC, SALT GLAND

SALT INTAKE (APPETITE)
SEE NUTRIENT INTAKE ACTIVITY, SALT INTAKE

SALT RESTRICTED DIET
SEE NUTRITION, DIET THERAPEUTIC, SALT RESTRICTED

SALTS IN THE DIET
SEE NUTRITION, DIETARY CONSTITUENTS, DIETARY SALTS

SALURESIS
SEE KIDNEY FUNCTION, SALURESIS

SAMADHI
SEE PSYCHIC ACTIVITY LEVEL, TROPHOTROPIC STATE, MEDITATION

SAMPLING
SEE AIR SAMPLING-MONITORING

SANGUINUS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*

SAPONINS (TERPENE)
SEE TERPENES SAPONINS

SARALASIN
SEE PEPTIDES, OLIGOPEPTIDES, SARALASIN

SARCOIDOSIS
SEE NEOPLASMS RELATED INTEREST, SARCOIDOSIS

SARCOLEMMA
SEE MUSCLES, SARCOLEMMA

SARCOMERES
SEE MUSCLE CELLS, SARCOMERES

SARCOPLASMIC RETICULUM
SEE MUSCLE CELLS, SARCOPLASMIC RETICULUM

SARCOSINE
SEE AMINO ACIDS, SARCOSINE

SARCOSOMES
SEE MUSCLE CELLS, SARCOSOMES

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

SATURATED FATS
SEE LIPIDS, FATS, SATURATED FATS

SATURATED FATTY ACIDS
SEE FATTY ACIDS, SATURATED FATTY ACIDS

SAXITOXIN
SEE TOXICOLOGY, PROTOZOAL TOXINS, SAXITOXIN

SCANDINAVIAN COUNTRIES
SEE GEOGRAPHICAL SITES, EUROPE, SCANDINAVIAN COUNTRIES

SCANNING (BODY, TISSUES, ORGANS)
SEE RADIOGRAPHY, SCANNING (GENERAL)*

SCANNING, CAT (EMI) (ACTASCAN)
SEE RADIOGRAPHY, SCANNING, CAT*

SCANNING, RADIONUCLIDE (RADIOISOTOPE)
SEE RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING*

SCANNING ELECTRON MICROSCOPY
SEE OPTICS, MICROSCOPY, ELECTRON SCANNING*

SCANNING-PRODUCED MOTION IMAGES
SEE RADIOGRAPHY, SCANNING, DSR

SCARS
SEE INJURIES, SCARS

SCH-13949W
SEE PHENYLALKYLAMINES, SALBUTAMOL

SCHEDULE, DOSAGE
SEE DOSAGE AND ROUTE, DOSAGE

SCHISTOSOMIASIS
SEE PARASITIC DISEASES, HELMINTH INFECTIONS, SCHISTOSOMIASIS

SCHOOLS
SEE EDUCATION, SCHOOLS

SCINTILLATION CAMERAS
SEE RADIOASSAY, SCINTILLATION CAMERAS*

SCINTILLATION COUNTERS
SEE RADIOASSAY, SCINTILLATION COUNTERS*

SCINTILLATION SCANNING
SEE RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING*

SCINTISCANNING
SEE RADIOAUTOGRAPHY, RADIONUCLIDE SCANNING*

SCLERODERMA
SEE CONNECTIVE TISSUE DISORDERS, SCLERODERMA

SCLEROPROTEINS
SEE ALBUMINOIDS

SCLEROSIS (ARTERIAL)
SEE CARDIOVASCULAR DISORDERS, ARTERIOSCLEROSIS

SCLEROSIS DISSEMINATED(MULTIPLE SCLEROSIS)
SEE NERVOUS DISORDERS, MYELINOPATHIES, MULTIPLE SCLEROSIS

SCLEROSIS PROGRESSIVE SYSTEMIC
SEE CONNECTIVE TISSUE DISORDERS, SCLERODERMA

SCOLIOSIS
SEE SKELETAL DISORDERS, SPINAL CURVATURES, SCOLIOSIS

SCREENING
SEE DIAGNOSTIC SERVICES, MASS SCREENING
SEE DRUGS SCREENING

SCREENING, TOXICOLOGICAL
SEE TOXICOLOGY, TOXICANT SCREENING

SCURVY
SEE NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS C

SEALASE
SEE NUCLEIC ACIDS REPAIR, DNA REPAIR (ENZYME)

SEASONS, SEASONAL VARIATION
SEE ENVIRONMENT, CLIMATE, SEASONS

SECONDARY EDUCATION
SEE EDUCATION, SCHOOLS, SECONDARY

SECONDARY INFECTIONS
SEE COMMUNICABLE DISEASES, INFECTIONS, SECONDARY

SECRETIN
SEE GASTROINTESTINAL HORMONES, SECRETIN

SECRETION OF CELL WASTES
SEE BIOLOGICAL TRANSPORT, SECRETORY MECHANISMS, EXCRETION

SECRETORY IMMUNOGLOBULIN A
SEE IMMUNOLOGY, SECRETORY (ANTIBODY) (FACTOR) SYSTEM

SECRETORY MECHANISMS
SEE BIOLOGICAL TRANSPORT, SECRETORY MECHANISMS

SECRETORY (ANTIBODY) (FACTOR) SYSTEM
SEE IMMUNOLOGY, SECRETORY (ANTIBODY) (FACTOR) SYSTEM

SECTIONING
SEE TISSUE AND CELL PREPARATION, SECTIONING

SEDATIVES
SEE PSYCHOPHARMACOLOGICAL AGENTS, HYPNOTICS AND SEDATIVES

SELENIUM (COMPOUNDS)
SEE METALS, METALLOIDS, SELENIUM

SELENOMETHIONINE
SEE SULFUR AMINO ACIDS, METHIONINE, SELENOMETHIONINE

SELF-CONCEPT
SEE PSYCHOLOGY, PERSONALITY DEVELOPMENT, SELF-CONCEPT

SELF MEDICATION
SEE DRUGS, CHEMOTHERAPY, SELF MEDICATION

SELF REGULATION (CONTROL) OF AUTONOMIC (VISCERAL) RESPONSES
SEE PSYCHOLOGY, CONDITIONING, AUTOGENIC AND INTERNAL CONTROL

SENECIO ALKALOIDS
SEE ALKALOIDS, SENECIO

SENILE DEMENTIA (PSYCHOSIS)
SEE BRAIN DISORDERS, CEREBRAL ATROPHY DIFFUSE, SENILE DEMENTIA

SENIOR CITIZENS
SEE AGE (HUMAN), ADULT, OLD AGE (65 TO 99 YRS)

SENSE ORGANS
R01HL-19995-02 Sensory transduction in cardiac mechanoreceptors (cats, frogs, rats)

SENSE ORGANS, CHEMORECEPTORS
SEE ALSO NERVOUS SYSTEM, PARAGANGLIA
R01HL-02888-22 Interrelationships of circulation and respiration (opossum, cats)
R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
** P01HL-06285-18 0182 Cardiovascular-respiratory physiology and biochemistry - Structure and function of vascular chemoreceptors (cats, rats)
R01HL-07723-15 Reflex control of vascular capacitance in shock
P01HL-07896-15 0014 Environmental biomedical research program - Mechanisms of respiration and circulation (human, dogs)
R01HL-08659-14 Myocardial performance and metabolism in the newborn (sheep)
P01HL-08682-15 0038 Regulation of the cardiovascular system - Control of pulmonary circulation (dogs)
P01HL-08805-15 0006 Regulation of ventilation and pulmonary circulation - Adaptation of lungfish--Estivation
** P01HL-08805-15 0039 Regulation of ventilation and pulmonary circulation - Carotid body (cats)
P01HL-08805-15 0044 Regulation of ventilation and pulmonary circulation - Neurochemical interactions in respiratory control (human, dogs, goats)
P01HL-08805-15 0045 Regulation of ventilation and pulmonary circulation - Integrated description of neurochemical respiratory control system
** P01HL-08805-15 0046 Regulation of ventilation and pulmonary circulation - Sites and modes of interaction of peripheral and central chemoreceptors
P01HL-08805-15 0047 Regulation of ventilation and pulmonary circulation - Extracranial metabolic control of ventilation (dogs, goats)
** P01HL-08899-14 0019 Tolerance to respiratory gases in health and disease - High oxygen pressure upon carotid chemoreceptor (cats)
P01HL-08899-14 0030 Tolerance to respiratory gases in health and disease - Dynamic characteristics of respiratory control components (human, cats)
** P01HL-10342-13 0011 The integrated function of respiration and circulation - Control of respiration 1--Peripheral chemoreceptor studies (cats)
P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
P01HL-10342-13 0024 The integrated function of respiration and circulation - Cytochrome P450 and physiological response to hypoxia (rats)
** P01HL-10342-13 0026 The integrated function of respiration and circulation - Control of respiration--Characterization of the aortic body (cats)
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
P01HL-11678-11 0009 Cardiovascular dynamics and their control - Control of respiration (cat, human)
** R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
R01HL-12564-09 Control of respiration and blood gases (human, dog)
** R01HL-13134-07 Mechanism of chemoreceptor discharge (cats)
R01HL-13233-08 Cardiorespiratory control in exercise (human)
R01HL-13841-16 Respiration during altitude acclimatization (goats, dogs, rats, rabbits)
R01HL-13888-15 Regulation of respiration
** P50HL-14214-07 0027 Newborn lung center for hyaline membrane disease - Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep)
** P01HL-14388-07 0155 Regulation of the circulation in pathological states - Cardiopulmonary afferent activity, carotid chemo-baroreceptor reflexes
P01HL-14388-07 0183 Regulation of the circulation in pathological states - Vasopressin in cardiovascular regulation (dogs, rats)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0204 Regulation of the circulation in pathological states - Reflex control of vascular resistance in spontaneously hypertensive rats
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
R01HL-14693-07 Survival value of physiological responses to hypoxia (dogs)
R01HL-14870-06 Dynamics of oxygen and carbon dioxide regulation (animals)
** R01HL-14967-06 Chemoreceptor function in dynamic ventilatory control (human, dogs)
P01HL-14985-07 0003 Adaptation to hypoxia - Hypoxia and oxygen transport (human, dogs)
P01HL-14985-07 0004 Adaptation to hypoxia - Control of breathing in respiratory failure (human, dogs)
** P01HL-14985-07 0008 Adaptation to hypoxia - Ventilatory drive and exercise capacity (human, dogs)
** P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
** R01HL-15430-05 Cardiopulmonary adaptation of newborns to altitude (human)
R01HL-15659-05 Dynamic isolation studies of control of respiration (human)
R01HL-16022-05 Determinants of the ventilatory response to hypoxia (goats, cats)
** R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
R01HL-16430-05 Neural control of respiration (cats)
** R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
M P01HL-16910-05 Regulation of the peripheral circulation
** P01HL-16910-05 0005 Regulation of the peripheral circulation - Control of circulation by baroreceptor and chemoreceptor reflexes (dog, monkey)
P50HL-17667-04 0031 Study of ischemic heart disease - Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey)
R01HL-17689-06 Neurophysiologic studies of respiratory control (cats)
R01HL-17711-05 Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs)
P01HL-17731-04 0010 Physiological basis of pulmonary disease - Gas exchange kinetics (dogs)
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
R01HL-17903-03 Regional circulatory responses to hypoxia (rats, cats, rabbits)
R01HL-18630-03 Pulmonary hemodynamics in atelectasis and hypoxia (dogs)
** P01HL-19737-02 0005 Cellular and molecular aspects of respiratory physiology - Interaction of respiratory exchanges and blood gas parameters (human, animals)
** P01HL-19737-02 0011 Cellular and molecular aspects of respiratory physiology - Chemical and metabolic factors on peripheral chemoreceptor activity (cats)
R01HL-20568-03 Respiration during prolonged hypercapnia (rats)
** R01HL-20574-03 Brain stem integration of chemoreceptor activity (cats)
R01HL-21988-01 Biochemistry of human platelet chemotaxis
** R01HL-22296-01 Autonomic mechanisms in man
** R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)
R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)
** R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
** R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))
R01HL-22928-01 Systematic study of bronchial circulation (sheep)

(contd)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

SENSE ORGANS, MECHANORECEPTORS

SEE ALSO MUSCLE FUNCTION, MUSCLE STRETCH (RECEPTORS)
SEE ALSO RESPIRATORY SYSTEM, PULMONARY STRETCH RECEPTORS
SEE ALSO SENSE ORGANS, OSMORECEPTORS
SEE ALSO SENSE ORGANS, PRESSORECEPTORS
SEE ALSO SENSORY-PERCEPTUAL PROCESSES, PROPRIOCEPTION

R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroaffectors (dog)
R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
** P01HL-08682-15 0027 Regulation of the cardiovascular system - Cardiac mechanoreceptors-Reflex regulation of renal function (dogs)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
** R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
R01HL-17715-04 Respiratory muscle afferents in respiratory control (cats)
R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
** R01HL-19048-03 Structure of baroreceptors in hypertension (rats)
R01HL-19256-03 Arterial baroreceptors in cardiovascular control (dogs)
** R01HL-19995-02 Sensory transduction in cardiac mechanoreceptors (cats, frogs, rats)
R01HL-20864-01 Postnatal maturation of cardiovascular regulatory system (minipig)
** R23HL-21042-01 Cardiopulmonary reflexes and their anatomical basis (dogs)
** R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
R01HL-21893-01 Blood volume distribution in hypertension (human)
** R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)

SENSE ORGANS, OSMORECEPTORS

SEE ALSO PITUITARY GLAND, NEUROHYPOPHYSIS

P01HL-11678-11 0027 Cardiovascular dynamics and their control - Vasopressin and thirst in control of body fluid volumes and osmolality (dogs)

SENSE ORGANS, PRESSORECEPTORS

SEE ALSO CEREBROVASCULAR SYSTEM, CAROTID SINUS

R01HL-05883-18 0004 Reflex control of resistance and capacitance vessels - Left ventricular receptors with nonmedullated vagal afferents (cats)
R01HL-05883-18 0005 Reflex control of resistance and capacitance vessels - Differential blockade of medullated and non-medullated vagal afferents in the cat
R01HL-05883-18 0006 Reflex control of resistance and capacitance vessels - Cardiopulmonary vagal afferents in the conscious dog
R01HL-06143-18 Response of the totally denervated heart to exercise (dogs)
P01HL-06285-18 0180 Cardiovascular-respiratory physiology and biochemistry - Vagal C-fibers and their influence on visceral and somatic function (animals)
** P01HL-06835-17 0044 Cardiovascular disease - Baroreceptors in control of blood pressure during sleep (dogs)
R01HL-07723-15 Reflex control of vascular capacitance in shock
P01HL-08682-15 0021 Regulation of the cardiovascular system - Hypoglycemia in pathogenesis of shock (dog)
R01HL-09154-14 Central control of distribution of organ blood flow (monkeys)
P01HL-10342-13 0019 The integrated function of respiration and circulation - Cerebral circulation and metabolism (dogs)
P01HL-10436-13 0014 A multidisciplinary study of congenital heart disease - Cardiovascular pharmacology (dog)
P01HL-10436-13 0015 A multidisciplinary study of congenital heart disease - Fetal and neonatal cardiovascular physiology (sheep)
R01HL-10951-11 Neural control of the heart (dogs, rats)
P01HL-11678-11 0001 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (rats, dogs)
P01HL-11678-11 0027 Cardiovascular dynamics and their control - Vasopressin and thirst in control of body fluid volumes and osmolality (dogs)
P01HL-11678-11 0040 Cardiovascular dynamics and their control - Control of plasma potassium concentration (dogs)
** P01HL-11678-11 0069 Cardiovascular dynamics and their control - Nervous control of the cirulation (dogs)
R01HL-12415-10 Evaluation of left ventricular function (dogs, rabbits)
** P01HL-13108-09 0021 Clinical heart transplantation - Autonomic reflex regulation of ventricular function (human)
** P01HL-13108-09 0022 Clinical heart transplantation - Studies on cardiac receptors (human)
R01HL-13187-09 Central neural control of cardiovascular function (cats)
R01HL-13427-09 Neural control of blood volume (monkeys, dogs)
** R01HL-13623-08 Atrial receptors (dogs)
P50HL-14159-08 0018 Specialized center of research in hypertension Sympathetic nervous system in hypertension (rats)
R01HL-14306-07 Quantification of arterial pressure control (dogs)
** P01HL-14388-07 0155 Regulation of the circulation in pathological states Cardiopulmonary afferent activity, carotid chemo-baroreceptor reflexes
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14388-07 0180 Regulation of the circulation in pathological states - Regulation of cerebral blood flow (dogs, monkeys)
P01HL-14388-07 0184 Regulation of the circulation in pathological states - Vestibular reflexes in control of circulation (human)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0195 Regulation of the circulation in pathological states - General review of potential pathophysiologic factors in spontaneous hypertension
P01HL-14388-07 0204 Regulation of the circulation in pathological states - Reflex control of vascular resistance in spontaneously hypertensive rats
** P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
P01HL-14388-07 0209 Regulation of the circulation in pathological states - Neural regulation of vascular resistance in human hypertension
P01HL-14388-07 0229 Regulation of the circulation in pathological states - Mechanism of postural hypotension (human)
** R01HL-14529-07 Systems analysis of baroreflex (dogs)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
** R01HL-15694-06 Pulmonary factors in circulatory regulation
** R01HL-16511-04 Sympathetic afferent activity of cardiac origin (dogs, monkeys)
R01HL-16648-16 Integrated control of cardiovascular activity (cats)
R01HL-16657-06 Innervation of coronary arteries and heart (rats)
M P01HL-16910-05 Regulation of the peripheral circulation
** P01HL-16910-05 0005 Regulation of the peripheral circulation - Control of circulation by baroreceptor and chemoreceptor reflexes (dog, monkey)
** P01HL-16910-05 0006 Regulation of the peripheral circulation - Regulation of blood flow distribution (baboons, dogs)
P01HL-16910-05 0007 Regulation of the peripheral circulation - CNS--Behavioral influences on circulation (baboons)
P01HL-16910-05 0008 Regulation of the peripheral circulation - Circulation to bone (dogs, baboons)
R01HL-17628-03 Pulsatile pressure-flow dynamics (dogs)
R01HL-17903-03 Regional circulatory responses to hypoxia (rats, cats, rabbits)
R01HL-17970-04 Vascular effects of inhibitory behavioral adaptations (dogs)
R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
P01HL-18575-03 0006 Mechanisms of vascular changes in hypertension - Evaluation of arterial compliance in hypertension (human, pigs)
P01HL-18974-03 0001 Experimental neurogenic hypertension program - Central neural systems regulating arterial pressure (rabbits)
P01HL-18974-03 0006 Experimental neurogenic hypertension program - Model of sustained arterial hypertension (cats)
P01HL-18974-03 0008 Experimental neurogenic hypertension program - Monoamines and hypertension (rats)
R01HL-19039-03 Circulation studies by one vs two circuit model (dogs)
** R01HL-19048-03 Structure of baroreceptors in hypertension (rats)
** R01HL-19256-03 Arterial baroreceptors in cardiovascular control (dogs)
R01HL-19257-03 Cardiovascular adjustment to behavioral stress (dog)
R01HL-19467-03 Regulation of blood pressure (rats, dogs)
R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
** R01HL-21071-02 Mechanisms of hypertension in coarctation of the aorta (dog)
** R01HL-21094-01 Arterial baroreceptors and renal function (dogs)
R01HL-21158-02 Cardiac receptors with vagal C-fiber afferents (cats)
R01HL-21351-02 Renal and vascular control by sympathetic ganglia (animals)
R01HL-21436-02 Autonomic control of renal function (cats)
R01HL-21532-02 Cardiovascular homeostasis and learning (frogs, rats, human)
** R01HL-21799-01 Circumventricular sites of pressor action of angiotensin II (rats)
** R01HL-22296-01 Autonomic mechanisms in man
R01HL-22482-01 Circulatory hamodynamics and sodium excretion (dogs)
R01HL-22484-01 Neural control of cardiac conduction and excitation (dogs)
** R01HL-22546-02 Baroreceptor reflex mechanisms in man
** R01HL-22581-02 Neurocirculatory control in diabetes mellitus (human)
** R01HL-22594-01 Reflex control of the circulation in heart failure (dogs)
R01HL-22641-01 Ventilation, perfusion, and systemic arterial reflexes (dogs)
** R01HL-22667-01 Mechanisms of baroreceptor adaptation in hypertension (dogs)
** R23HL-22669-01 Cardiovascular effects from visceral afferents (dogs)
** R01HL-22715-01 Neural integration of the cardiovascular reflexes (dogs))
R23HL-22747-01 Cardiodynamics and hypertension under cerebellar control (dogs)
R01HL-22928-01 Systematic study of bronchial circulation (sheep)

SENSITIZATION PASSIVE

SEE HYPERSENSITIVITY, SENSITIZATION PASSIVE

SENSITIZATION TRANSFER FACTOR

SEE HYPERSENSITIVITY, TRANSFER FACTOR (HYPERSENSITIVITY)

SENSITIZING ANTIBODIES HUMORAL (CIRCULATING) (SERUM)

SEE HYPERSENSITIVITY, SENSITIZING ANTIBODIES HUMORAL

SENSITIZING ANTIBODIES NON-HUMORAL

SEE HYPERSENSITIVITY, SENSITIZING ANTIBODIES NON-HUMORAL

SENSITIZING ANTIGENS

SEE HYPERSENSITIVITY, ALLERGENS

SENSORIMOTOR SYSTEMS (GENERAL)

SEE NEUROMOTOR SYSTEM, SENSORIMOTOR SYSTEMS (GENERAL)

SENSORY DEPRESSION, ANESTHESIA (GENERAL)

SEE ALSO DISEASES, COMPLICATIONS, ANESTHESIA RELATED
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, ANESTHETICS
SEE ALSO TEMPERATURE (BODY), HYPOTHERMIA INDUCED

P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
** R01HL-09609-11 Lung volume and breathing mechanics during anesthesia (human)
P01HL-11678-11 0059 Cardiovascular dynamics and their control - Basic hemodynamics (dogs, rats)
P01HL-12738-10 0111 Physiologic pharmacology and its clinical applications - Cardiovascular pharmacology (dogs)
P01HL-14388-07 0155 Regulation of the circulation in pathological states - Cardiopulmonary afferent activity, carotid chemo-baroreceptor reflexes
R01HL-14529-07 Systems analysis of baroreflex (dogs)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
R01HL-16454-03 Vascular muscle reactivity in hypertension (human, rats)
R01HL-16916-04 0011 The role of albumins in lung water accumulation - Whole body distribution and exchange of albumin (rabbits, human, monkeys)
** R01HL-17314-04 Effects of anesthesia and loading on respiration (human, cats)
** P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human)
R01HL-17903-03 Regional circulatory responses to hypoxia (rats, cats, rabbits)
** R01HL-19256-03 Arterial baroreceptors in cardiovascular control (dogs)
P01HL-21584-02 0002 Respiratory mechanics in normal and abnormal states - Lung mechanics--Regional deformation and ventilation (dogs)
** P01HL-21584-02 0003 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on ventilation and respiratory mechanics in man
** P01HL-21584-02 0004 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on respiratory mechanics (dogs)
P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)
R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)

SENSORY DEPRESSION, ANESTHESIA (GENERAL), INHALATION

P01HL-06370-17 0006 Cardiopulmonary and renal pathology research center - Chemical basis of ultrastructural changes in disease (rats)
** R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
R01HL-13315-08 Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-17091-05 Anesthetics and microvascular response to hemorrhage (rats)
** R01HL-20754-02 Anesthetic-induced myocardial depression (rabbits)

SENSORY DEPRESSION, ANESTHESIA, REFRIGERATION
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
R01HL-20143-02 Hypothermic circulatory arrest--Cerebral vascular change (dogs)

SENSORY DEPRESSION, ANESTHESIA CONDUCTION
P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
P01HL-06296-18 0007 Cardiovascular and pulmonary adaptation to stress - Cardiovascular control during isometric exercise (cats)

SENSORY DEPRESSION, ANESTHESIA CONDUCTION, LOCAL
P01HL-06285-18 0181 Cardiovascular-respiratory physiology and biochemistry - Regulation of respiration--Role of vagus nerve (dogs)
R01HL-15231-05 Mechanisms of hemodynamic changes during digestion (dogs)
R01HL-19721-03 Lung inflammation--Lysosomal proteases and liposomes (human, rabbits)

SENSORY DEPRESSION, ELECTRONARCOSIS
P01HL-08899-14 0045 Tolerance to respiratory gases in health and disease - Studies in normal subjects

SENSORY FEEDBACK
R01HL-15307-06 Central nervous control of renin and blood pressure (dogs)
R01HL-18823-02 Physiological correlates of conditioned blood pressure (human)

SENSORY MECHANISMS (GENERAL)
SEE SENSORY-PERCEPTUAL PROCESSES, SENSORY MECHANISMS (GENERAL)

SENSORY NERVES
SEE NERVOUS SYSTEM, AFFERENT NERVES

SENSORY-PERCEPTUAL PROCESSES, DISCRIMINATION
R01HL-19204-03 Environmental factors in hypertension (Rhesus monkeys)

SENSORY-PERCEPTUAL PROCESSES, OLFACTORY STIMULI
P01HL-08214-15 0006 Chemical and biological properties of lipids - Analysis and properties of lipids

SENSORY-PERCEPTUAL PROCESSES, PAIN
SEE ALSO HEART DISORDERS, CORONARY, ANGINA PECTORIS
SEE ALSO NEUROLOGIC MANIFESTATIONS, HEADACHE
SEE ALSO SENSORY DEPRESSION, ANESTHESIA (GENERAL)
N01HB-72916-02 Crisis and pain symptom prophylaxis by oral zinc therapy (human)
P01HL-08682-15 0018 Regulation of the cardiovascular system - Functional implications of cardiac afferent nerves (dogs)
R01HL-22732-01 Central organization of cardiac afferent nerves (cats, monkeys)

SENSORY-PERCEPTUAL PROCESSES, PERCEPTION
SEE ALSO ENVIRONMENT, ORIENTATION
SEE ALSO EYE, VISUAL PERCEPTION
SEE ALSO SENSORY-PERCEPTUAL PROCESSES, DISCRIMINATION
** P01HL-08899-14 0066 Tolerance to respiratory gases in health and disease - Neurophysiological effects of inert gases in man

SENSORY-PERCEPTUAL PROCESSES, PROPRIOCEPTION
SEE ALSO EAR, LABYRINTH, VESTIBULAR APPARATUS
SEE ALSO EAR, LABYRINTH, VESTIBULAR REFLEX
SEE ALSO MUSCLE FUNCTION, MUSCLE STRETCH (RECEPTORS)
SEE ALSO MUSCLE FUNCTION, MUSCLE STRETCH REFLEX
R01HL-18007-05 Neural mechanisms controling motor act of breathing (cats, human)

SENSORY-PERCEPTUAL PROCESSES, SENSORY MECHANISMS (GENERAL)
SEE ALSO EYE, VISION
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
** P01HL-08899-14 0043 Tolerance to respiratory gases in health and disease - Oxygen effects upon CNS and sensory functions (human)
P01HL-08899-14 0057 Tolerance to respiratory gases in health and disease - Studies of intermittent exposure in man
** P01HL-08899-14 0065 Tolerance to respiratory gases in health and disease - Adaptation and effects of narcotic gases exposure (human)
P01HL-08899-14 0067 Tolerance to respiratory gases in health and disease - Inert gas influences upon visual function in man
** R01HL-19995-02 Sensory transduction in cardiac mechanoreceptors (cats, frogs, rats)

SENSORY-PERCEPTUAL PROCESSES, TASTE THRESHOLD
P50HL-14214-07 0028 Newborn lung center for hyaline membrane disease - Relationship of trace metals to respiratory failure (dog, sheep, human)

SENSORY-PERCEPTUAL PROCESSES, THERMORECEPTION
P01HL-11414-11 0027 Thrombosis and atherosclerosis program - Thermal memory wire filter to prevent pulmonary embolism (human, dogs)
** R01HL-20766-02 Control of circulation in heat stress (baboons)

SENSORY THRESHOLDS
SEE ALSO EAR, HEARING, AUDITORY THRESHOLD
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, ANESTHETICS
SEE ALSO SENSORY DEPRESSION, ANESTHESIA (GENERAL)
SEE ALSO SENSORY-PERCEPTUAL PROCESSES, TASTE THRESHOLD
P50HL-14214-07 0027 Newborn lung center for hyaline membrane disease - Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep)

SEPTAL AREA
SEE BRAIN, LIMBIC SYSTEM, SEPTAL AREA

SEPTAL DEFECT HEART
SEE CONGENITAL ABNORMALITIES, HEART SEPTAL DEFECTS

SEPTAL DEFECT THERAPEUTIC
SEE HEART SURGERY, SEPTAL DEFECT THERAPEUTIC

SEPTICEMIA, SEPTICEMIC SHOCK
SEE BLOOD TOXICOLOGY, BACTEREMIA-SEPTICEMIA

SEPTUM HEART
SEE HEART, SEPTUM

SERINE
SEE AMINO ACIDS, SERINE

SEROLOGY
SEE IMMUNOLOGY, SEROLOGY*

SEROTONIN
SEE BENZOPYRROLES, SEROTONIN

SEROTONIN INHIBITORS
SEE BENZOPYRROLES, SEROTONIN INHIBITORS

SEROTYPES, SEROTYPING
SEE MICROBIAL IDENTIFICATION AND CLASSIFICATION, SEROTYPING

SERPASIL
SEE ALKALOIDS, RAUWOLFIA TYPE, RESERPINE

SERRATIA MARCESCENS
SEE BACTERIA, ENTEROBACTERIACEAE, SERRATIA MARCESCENS*

SERUM
SEE BLOOD AND RE SYSTEM, BLOOD, SERUM

SERUM ALBUMIN
SEE ALBUMINS, SERUM ALBUMIN

SERUM ALBUMIN BOVINE
SEE ALBUMINS, SERUM ALBUMIN BOVINE

SERUM AMINO ACIDS
SEE AMINO ACIDS, SERUM AMINO ACIDS

SERUM GLOBULINS
SEE GLOBULINS, SERUM GLOBULINS

SERUM HEPATITIS
SEE LIVER DISORDERS, HEPATITIS SERUM

SERUM HEPATITIS VACCINE
SEE VACCINES, VIRAL, HEPATITIS, SERUM

SERUM LIPIDS
SEE LIPIDS BLOOD

SERUM LIPOPROTEINS
SEE LIPOPROTEINS BLOOD

SERUM PROTEINS
SEE BLOOD PROTEINS

SERUM PROTHROMBIN CONVERSION ACCELERATOR
SEE BLOOD COAGULATION, FACTOR VII

SERUM SICKNESS
SEE HYPERSENSITIVITY, SERUM SICKNESS

SERVOMECHANISMS (BIOLOGICAL)
SEE INFORMATION PROCESSING AND CONTROL (BIOLOGICAL)

SERVOMECHANISMS (NEURAL)
SEE INFORMATION PROCESSING AND CONTROL (NEURAL)

SET, MENTAL
SEE PSYCHOLOGY, ATTITUDES (AND RELATED)

SEVENTH DAY ADVENTISTS
SEE SOCIAL GROUPS, RELIGIOUS, SEVENTH DAY ADVENTISTS

SEX
R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
R01HL-18805-04 0007 Sudden cardiac death and the onset of myocardial infarction - Analysis of pathologic factors involved in sudden death (human)
R01HL-22123-02 The role of the red cell in diabetic atherosclerosis (human)
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis

SEX, FEMALE
SEE ALSO AGE (ANIMAL), PUBERTY
SEE ALSO CHILD DEVELOPMENT, PUBERTY
SEE ALSO FAMILY, MATERNAL BEHAVIOR
SEE ALSO FERTILITY, SEX CYCLES, MENSTRUATION
SEE ALSO HEALTH CARE SERVICES, MATERNAL AND INFANT CARE
SEE ALSO NEOPLASMS DIAGNOSIS, BREAST NEOPLASMS DIAGNOSIS, MAMMOGRAPHY*
SEE ALSO PREGNANCY
SEE ALSO PREGNANCY DISORDERS
R01HL-20179-02 Epidemiology of sudden cardiac death among women
R01HL-20535-02 Cardiovascular disease and evolving diabetes mellitus (human)
P01HL-20993-02 0003 Population dynamics of arterial cells in atherogenesis - Clonal phenomena in atherogenesis (human, hares)
R01HL-21352-02 Community studies of obstructive lung disease (human)

SEX, MALE
SEE ALSO AGE (ANIMAL), PUBERTY
SEE ALSO CHILD DEVELOPMENT, PUBERTY
SEE ALSO FERTILITY, SPERM (ALL STAGES)
R01HL-04697-17 International heart disease epidemiology (human)
P01HL-06308-18 0010 Mechanisms and therapy of circulatory disease - Ventricular arrhythmias during exercise to CHD and myocardial ischemia (human)
P01HL-07896-15 0055 Environmental biomedical research program - Cerebral blood flow by Xenon-133 inhalation (human)
P01HL-08974-14 0005 Natural and experimental atherosclerosis - Atherosclerosis, coronary heart disease and sudden death (human)
R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-16908-04 Myocardial function, risk factors and future CHD (men)
R01HL-16909-04 Myocardial function, risk factors and future CHD (men)
R01HL-17580-04 The impact of stress on coronary heart disease (men)
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-20034-03 Hypertension--Psychophysiologic and genetic precursors (human)
R01HL-20374-03 Myocardial function--Risk factors and future CHD (human)
R01HL-20645-01 Etiology of myocardial infaction (human)
R01HL-22296-01 Autonomic mechanisms in man
R01HL-22514-01 Behavior patterns, stress, and catecholamines
N01HV-22971-07 Prevention of coronary heart disease (human)
N01HV-22976-07 Multiple risk factor intervention trial, prevention of coronary heart disease
N01HV-22977-08 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22979-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22981-10 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33101-06 Development and conduct of a multiple risk factor intervention trial (human)
N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33110-04 Prevention of coronary heart disease (human)
N01HV-42902-08 Epidemiological studies of coronary heart disease (human)
N01HV-42929-08 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42930-09 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42932-05 Risk factor intervention trial for the prevention of CHD (human)

(contd)

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SEX

N01HV-42933-09 Multiple risk factors in coronary heart disease (human)
N01HV-53010-03 NAS-NRC twin registry
N01HV-62955-04 Data collection in clinical pathology and morbid anatomy (man)

SEX, SEX DIFFERENCE

R01HL-04697-17 International heart disease epidemiology (human)
P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
R01HL-08888-12 Cooperative study of drugs and coronary heart disease (men)
P01HL-08974-14 0028 Natural and experimental atherosclerosis - Geographic pathology of atherosclerosis and coronary heart disease (human)
R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
R01HL-13632-08 Vascular changes in diabetes mellitus (human)
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
R01HL-17408-03 Fresh blood rheology--Relation to cardiovascular risk (human)
** R01HL-17516-04 Role of androgen as a risk factor in atherogenesis (human, animals)
R01HL-17732-03 Peripheral venomotor control in thermal stress (human)
R01HL-17865-04 Studies on aging--Effects of sex hormones (rats, dogs)
R01HL-18002-03 Circulatory shock, trauma and RE-system function (rats)
R01HL-18715-02 Hypertension incidence project (human)
R01HL-19056-03 Blood triglycerides and lipoprotein lipase in the lung (rats)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL-19864-03 0001 Blood pressure of children and young adults - Follow up of students from Dormont, Pennsylvania
R01HL-19869-03 Antecedents of adolescent hypertension (human)
R01HL-19870-03 Hypertensive progeny--Physical and humoral precursor search
R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
R01HL-19956-03 High blood pressure in the young (human)
R01HL-20373-02 Cardiovascular aging in young men and women
R01HL-20381-03 Long-term study of diabetic vascular disease (human)
R01HL-20471-03 Atherosclerosis and diabetes mellitus (human)
P01HL-20581-01 0005 Vascular neuroeffector mechanisms in health and disease - Changes in the neuroeffector mechanism in hypertension (rabbits)
R01HL-20875-02 Chronic obstructive pulmonary disease--Familial/genetic (human)
R01HL-20954-02 Hyperlipoproteinemia (rats, human)
R01HL-21418-02 Experimental myocardial infarction (rats)
R23HL-21917-01 Adrenal steroids in adolescent and adult hypertension
R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
R01HL-22040-01 Regulation of lysyl-cross-linking in vascular tissue (rats, turkeys)
R01HL-22812-01 Regulation of hepatic production of HDL (rats)
R01HL-23201-01 Mechanisms of hypertension (human, rats)
N01HR-32900-09 Pilot study to standardize the measurement of 'closing volume' (human)
N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)

SEX CHROMOSOMES
SEE GENETICS, CHROMOSOMES, SEX CHROMOSOMES

SEX DIFFERENCE
SEE SEX, SEX DIFFERENCE

SEX HORMONES
SEE REPRODUCTIVE HORMONES, SEX HORMONES

SH ANTIGEN
SEE IMMUNOLOGY, ANTIGENS VIRAL, HEPATITIS B ANTIGEN (HBAG)

SHARED SERVICES, HOSPITALS AND OTHER FACILITIES
SEE HEALTH CARE SERVICES, SHARED SERVICES

SHEEP
SEE MAMMALS, ARTIODACTYLA, SHEEP*

SHELLFISH POISONING PARALYTIC
SEE TOXICOLOGY, PROTOZOAL TOXINS, SAXITOXIN

SHELTERED CARE INSTITUTIONS
SEE HEALTH CARE FACILITIES, RESIDENTIAL

SHIVERING
SEE TEMPERATURE (BODY) REGULATION

SHOCK
SEE INJURIES, SHOCK

SHOCK, ANAPHYLACTIC
SEE HYPERSENSITIVITY, ANAPHYLAXIS

SHOCK, CARDIOGENIC
SEE HEART DISORDERS, CARDIOGENIC SHOCK

SHOCK, HEMORRHAGIC
SEE CARDIOVASCULAR DISORDERS, HEMORRAGIC SHOCK

SHOCK, LUNG
SEE RESPIRATORY DISORDERS, RESPIRATORY INSUFFICIENCY, SHOCK LUNG

SHOCK, SEPTICEMIC
SEE BLOOD TOXICOLOGY, BACTEREMIA-SEPTICEMIA

SHOCK, TOXIC
SEE INJURIES, SHOCK, TOXIC

SHUNTS, ARTERIOVENOUS ABNORMAL
SEE CARDIOVASCULAR DISORDERS, ARTERIOVENOUS SHUNTS ABNORMAL

SHUNTS, ARTERIOVENOUS NORMAL
SEE CARDIOVASCULAR SYSTEM, ARTERIOVENOUS ANASTOMOSIS NORMAL

SHUNTS, CARDIOVASCULAR ABNORMAL
SEE CONGENITAL ABNORMALITIES, CARDIOVASCULAR SHUNTS ABNORMAL

SHUNTS, CARDIOVASCULAR SURGICAL
SEE CARDIOVASCULAR SURGERY, CARDIOVASCULAR SHUNTS

SHUNTS, COLLATERAL CIRCULATION NORMAL
SEE CARDIOVASCULAR SYSTEM, BLOOD SUPPLY, COLLATERAL CIRCULATION

SHUNTS, DUCTUS ARTERIOSUS EMBRYONIC
SEE CARDIOVASCULAR SYSTEM, DUCTUS ARTERIOSUS EMBRYONIC

SHUNTS, HEART BYPASS SURGICAL
SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART BYPASS SURGICAL

SHUNTS, HEART-LUNG BYPASS
SEE CARDIOVASCULAR SURGERY, CIRCULATORY ASSIST, HEART-LUNG BYPASS

SHUNTS, HEART SEPTAL DEFECTS
SEE CONGENITAL ABNORMALITIES, HEART SEPTAL DEFECTS

SHWARTZMAN PHENOMENON
SEE HYPERSENSITIVITY, ANAPHYLAXIS, SHWARTZMAN PHENOMENON

SIALIC ACIDS
SEE SUGAR ACIDS, SIALIC ACIDS

SIALIDASE
SEE CARBOHYDRASES, NEURAMINIDASE

SICKLE CELL ANEMIA
SEE HEMOPROTEINS, HEMOGLOBINOPATHIES, SICKLE CELL ANEMIA

SICKLE CELL CRISIS
SEE HEMOPROTEINS, HEMOGLOBINOPATHIES, SICKLE CELL CRISIS

SICKLING INHIBITORS
SEE HEMOPROTEINS, HEMOGLOBINOPATHIES, SICKLING INHIBITORS

SIDEROBLASTIC ANEMIA
SEE BLOOD AND RE DISORDERS, ANEMIA SIDEROBLASTIC

SIDEROPHILIN
SEE METALLOPROTEINS, TRANSFERRIN

SIDS
SEE CHILDREN, INFANT AND CHILD MORTALITY, SUDDEN INFANT DEATH SYNDROME

SIEVES, MOLECULAR
SEE PHYSICAL SEPARATION, MOLECULAR SIEVES*

SIGNS AND SYMPTOMS (NOT GROUPED ELSEWHERE)
SEE DISEASES, SIGNS-SYMPTOMS (NOT GROUPED ELSEWHERE)

SILAGE
SEE FOOD, ANIMAL FEEDS, SILAGE

SILASTIC
SEE PLASTICS, SILICONE RUBBER

SILICATES
** P50HL-14212-07 0012 Correlated studies of pulmonary fibrosis - Inorganic particulates in tobacco, smoke and lungs of cigarette smokers (human)
** P50HL-15092-07 0002 Immune and fibrotic response to occupational environments - Longitudinal study of sandblasters silicosis (human)
P50HL-15092-07 0006 Immune and fibrotic response to occupational environments - Immunologic studies in silicosis (human, rabbits, hamsters, guinea pigs)
P50HL-15092-07 0007 Immune and fibrotic response to occupational environments - Asbestosis-Cellular immunity, structure and mineral localization (human)
P50HL-15092-07 0014 Immune and fibrotic response to occupational environments - Clinical immunology core resource
P60HL-17292-04 0005 Vermont Lung Center - Mineral pneumoconioses--Pathogenesis and pathology (human)
R01HL-21120-02 Membrane dynamics in alveolar macrophages (rabbits)

SILICATES, ASBESTOS
** P50HL-15092-07 0001 Immune and fibrotic response to occupational environments - X-ray diffraction study-Dust exposure in asbestos cement products manufacturing
** P50HL-15092-07 0007 Immune and fibrotic response to occupational environments - Asbestosis-Cellular immunity, structure and mineral localization (human)
** P50HL-15092-07 0008 Immune and fibrotic response to occupational environments - Animal models of asbestosis (hamsters)
P50HL-15092-07 0014 Immune and fibrotic response to occupational environments - Clinical immunology core resource
** R01HL-17543-03 0002 Magnetic tracers for diagnosis of lung disease - Magnetite as an index of asbestos exposure (human)
R01HL-17543-03 0003 Magnetic tracers for diagnosis of lung disease - Occupationally accumulated magnetite for diagnosis of lung disease (human)
R01HL-17543-03 0004 Magnetic tracers for diagnosis of lung disease - Magnetite retention, distribution, relaxation rate, viscosity (rabbits)
R23HL-19584-01 Alveolar macrophage responses to toxic particle exposure (guinea pigs, human)

SILICATES, GLASS
R01HL-20079-02 0003 Thromboresistant material - Blood surface interactions (human, cattle)

SILICON
** P01HL-06312-17 0050 Surgical cardiology - Prevention of pericardial and pleural adhesions by silicone oil (dogs)
** N01HV-32949-11 Modification of silicon elastomers for medical devices

SILICONE RUBBER
SEE PLASTICS, SILICONE RUBBER

SIMIAN VIRUS SV40
SEE VIRUSES, PAPOVAVIRUSES, SV40 VIRUS

SIMMONDS DISEASE
SEE PITUITARY GLAND DISORDERS, HYPOPITUITARISM

SINGLE CELL ANALYSIS
SEE CELLS, SINGLE CELL ANALYSIS

SINGLE FILE PORE DIFFUSION
SEE BIOLOGICAL TRANSPORT, PASSIVE TRANSPORT, DIFFUSION

SINGLE UNIT (CELL) ANALYSIS
SEE CELLS, SINGLE CELL ANALYSIS

SINGLE UNIT TRAINING (AUTOGENIC)
SEE PSYCHOLOGY, CONDITIONING, AUTOGENIC AND INTERNAL CONTROL

SINGLET STATE
SEE ELECTRONIC SPECTRA, SINGLET STATE

SINO-ATRIAL NODE
SEE HEART, CONDUCTION SYSTEM, SINO-ATRIAL NODE

SINUSES INTRACRANIAL VENOUS
SEE CEREBROVASCULAR SYSTEM, VENOUS SINUSES INTRACRANIAL

SITOSTEROL
SEE CHOLESTANE SERIES, SITOSTEROL

BETA-SITOSTEROL
SEE CHOLESTANE SERIES, BETA-SITOSTEROL

SIZING OF MYOCARDIAL INFARCT
SEE HEART DISORDERS DIAGNOSIS, MYOCARDIAL INFARCT SIZING

SJOGREN'S SYNDROME
SEE CONNECTIVE TISSUE DISORDERS, SJOGREN'S SYNDROME

SKELETAL DISORDERS (GENERAL)
R01HL-11901-12 0018 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass--Postoperative complications (human)

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SKELETAL DISORDERS, ARTHRITIS
SEE ALSO PURINES-PYRIMIDINES METABOLISM ERRORS, GOUT
R01HL-11901-12 0018 Effects of metabolic surgery on the hyperlipidemias - Jejuno-ileal bypass--Postoperative complications (human)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)

SKELETAL DISORDERS, ARTHRITIS, RHEUMATOID
SEE ALSO CONNECTIVE TISSUE DISORDERS, SJDGREN'S SYNDROME
R01HL-00487-29 Vasomotor tone and venous return (human, dogs, monkeys)

SKELETAL DISORDERS, BONE DEVELOPMENT, DWARFISM
SEE ALSO METABDLIC DISORDERS INBORN, GLYCDGENDSIS
R01HL-09921-13 Mechanisms related to congestive heart failure (dogs, human, rat)

SKELETAL DISORDERS, BONE DEVELOPMENT, DWARFISM, PITUITARY
R01HL-19175-03 Pituitary modulation of micro-and macro-vascular disease (human, rats)

SKELETAL DISORDERS, BONE METABOLISM, OSTEOPOROSIS
P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique

SKELETAL DISORDERS, BONE NECROSIS
P01HL-08899-14 0028 Tolerance to respiratory gases in health and disease - Inert gas exchange, oxygen influences-organs and tissues (human, rabbits, dogs)

SKELETAL DISORDERS, BONE NECROSIS ISCHEMIC
P60HL-15169-05 0014 Support for center for sickle cell disease - Orthopaedic aspects of sickle cell disease (human)

SKELETAL DISORDERS, ORTHOPEDICS
SEE ALSO SKELETAL SYSTEM, LIMB, AMPUTATION
** P60HL-15169-05 0014 Support for center for sickle cell disease - Drthopaedic aspects of sickle cell disease (human)

SKELETAL DISORDERS, ORTHOPEDICS, HIP PROSTHESIS
P60HL-15169-05 0014 Support for center for sickle cell disease - Orthopaedic aspects of sickle cell disease (human)
R01HL-17974-03 External pneumatic compression in deep venous thrombosis (human)
R01HL-18738-02 Prevention of postoperative venous thrombi (human, cattle)

SKELETAL DISORDERS, ORTHOPEDICS, HIP SURGERY
SEE ALSO SKELETAL DISORDERS, DRTHOPEDICS, HIP PRDSTHESIS
R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
P50HL-14217-08 0063 Specialized center of research in thrombosis - Special clinical studies laboratory

SKELETAL DISORDERS, OSTEITIS DEFORMANS
** P01HL-14388-07 0231 Regulation of the circulation in pathological states - Mechansim of cutaneous vasodilatation in Paget's disease of bone
R01HL-17551-04 Biosynthesis and metabolism of procollagen (human, monkeys, mice)

SKELETAL DISORDERS, OSTEOMYELITIS
P60HL-15169-05 0014 Support for center for sickle cell disease - Drthopaedic aspects of sickle cell disease (human)

SKELETAL DISORDERS, SPINAL CURVATURES, KYPHOSIS
R01HL-22022-01 Respiratory muscle dysfunction in respiratory failure (human)

SKELETAL DISORDERS, SPINAL CURVATURES, SCOLIOSIS
P01HL-10436-13 0008 A multidisciplinary study of congenital heart disease - Physiologic consequences of chronic hypoxemia (human)
** R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)

SKELETAL DISORDERS DIAGNOSIS (INCL EXAMS)*
SEE ALSD BODY PHYSICAL CHARACTERISTICS (GENERAL)
SEE ALSO MUSCLE FUNCTIDN, ELECTROMYOGRAPHY*
P01HL-D4664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique

SKELETAL MOVEMENT, LIMBS MOVEMENT
R01HL-13233-D8 Cardiorespiratory control in exercise (human)

SKELETAL MOVEMENT, POSTURE
P01HL-04664-18 0002 Cardiovascular and lung dynamics - X-ray cross section imaging of organs (dogs)
P01HL-12373-10 0003 Cardiopulmonary physiology and pathophysiology - Myocardial function in man
R01HL-14495-05 Solid and structural mechanics of lungs (mammals)
P01HL-14580-07 0005 Program project in respiratory mechanics - Development and evaluation of tests of pulmonary function (human)
R01HL-16918-05 Role of steroids in hypertension (human)
R01HL-17364-04 'Big renin'--Biochemical and clinical studies (human)
R01HL-21274-01 Prorenin--Physiological and biochemical analysis (human)
R01HL-21444-02 Pulmonary mechanics during postnatal development (human)
R01HL-21518-01 Improvement in regional ventilation-perfusion resolution (human)
M P01HL-21584-02 Respiratory mechanics in normal and abnormal states
P01HL-21584-02 0002 Respiratory mechanics in normal and abnormal states - Lung mechanics--Regional deformation and ventilation (dogs)
** P01HL-21584-02 0003 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on ventilation and respiratory mechanics in man
P01HL-21584-02 0004 Respiratory mechanics in normal and abnormal states - Effects of anesthesia on respiratory mechanics (dogs)
R01HL-21893-01 Blood volume distribution in hypertension (human)
R01HL-22506-01 Hemodynamics of the clinical hypertensions
R01HL-22977-01 Role of vasoconstrictor mechanisms in heart failure (human, dogs)
R01HL-23201-01 Mechanisms of hypertension (human, rats)

SKELETAL SYSTEM (GENERAL)
SEE ALSO MUSCLES
R01HL-01813-25 Regulation of metabolism by drugs and hormones (rats)
P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
** R01HL-17376-04 Analysis of Z bands in heart by optical diffraction (mammals)
** P01HL-19737-02 0009 Cellular and molecular aspects of respiratory physiology - Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs)
** P01HL-20592-02 0012 Cell biology of cardiac and skeletal muscle - Contractile properties of skinned muscle fibers (frogs)

SKELETAL SYSTEM, BONE
SEE ALSO SKELETAL SYSTEM (GENERAL)
** P01HL-16910-05 0008 Regulation of the peripheral circulation - Circulation to bone (dogs, baboons)
R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)

SKELETAL SYSTEM, BONE DENSITY
P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique

SKELETAL SYSTEM, CARTILAGE
** P01HL-11310-12 0104 Mechanisms of cardiovascular disease - Structure of connective tissue proteoglycans (rabbits)
R01HL-21612-02 Biochemistry of lung proteoglycans (human, rabbits)

SKELETAL SYSTEM, HIP, FEMORAL HEAD
P60HL-15169-05 0014 Support for center for sickle cell disease - Orthopaedic aspects of sickle cell disease (human)

SKELETAL SYSTEM, JOINT, KNEE
R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)

SKELETAL SYSTEM, LIMB
SEE ALSO SKELETAL MOVEMENT, LIMBS MDVEMENT
P50HL-17651-04 0044 Ischemic heart disease specialized center of research - Limb blood flow after myocardial revascularization (human)
R01HL-20766-02 Control of circulation in heat stress (baboons)

SKELETAL SYSTEM, LIMB, AMPUTATION
R01HL-17974-03 External pneumatic compression in deep venous thrombosis (human)
** R01HL-22113-02 Micro/macrovasculature in healing of foot lesions (human)

SKELETAL SYSTEM, LIMB, ARM
R01HL-21323-02 Raynaud's disease and temperature self-regulation (human)

SKELETAL SYSTEM, LIMB, FINGERS
** RD1HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
R01HL-21323-02 Raynaud's disease and temperature self-regulation (human)

SKELETAL SYSTEM, LIMB, HAND
SEE ALSO SKELETAL SYSTEM, LIMB, FINGERS
R01HL-21323-02 Raynaud's disease and temperature self-regulation (human)

SKELETAL SYSTEM, LIMB, LEG
SEE ALSO CARDIOVASCULAR SYSTEM, ARTERIES, FEMORAL ARTERY
SEE ALSD NEUROMOTOR DISORDERS, PARALYSIS, PARAPLEGIA
SEE ALSO SKELETAL SYSTEM, JDINT, KNEE
R01HL-22113-02 Micro/macrovasculature in healing of foot lesions (human)

SKELETAL SYSTEM, RIBS
N01HV-72934-01 Development of a left heart assist blood pumps (human, cattle)

SKELETAL SYSTEM CIRCULATION
R01HL-15390-12 Regulation of blood flow in the microcirculation
** P01HL-16910-05 0008 Regulation of the peripheral circulation - Circulation to bone (dogs, baboons)

SKELETAL TISSUE PROSTHESIS, BONE
N01HV-72934-01 Development of a left heart assist blood pumps (human, cattle)

SKELETAL VISUALIZATION, BONE SCANNING*
P01HL-04664-18 0008 Cardiovascular and lung dynamics - Micrographic video imaging technique

SKIN (GENERAL)
SEE ALSO ALBUMINOIDS, KERATOHYALIN
SEE ALSD GROWTH FACTORS (INCL. ANABDLICS), EPIDERMAL GRDWTH FACTOR
P50HL-14141-05 0003 SCOR for atherosclerosis in childhood - Detection of abnormalities in lipid metabolism (human, rabbits, rats)
R01HL-20634-01 Blood volume and venous return in thermal strain (human)
R01HL-21451-01 Control of circulation during heat stress and fever (baboon)
R01HL-21632-02 Development of a transcutaneous power transfer system (cattle)
** R01HL-22327-01 Transport of arterial blood gases through skin (swine)

SKIN ABSORPTION
P01HL-08899-14 0079 Tolerance to respiratory gases in health and disease - Physiological factors in counterdiffusion bubble formation (human, pigs)

SKIN CIRCULATION
** R01HL-20663-02 Regulation of skin blood flow in man
R01HL-22118-02 Microcirculation in patients with diabetes mellitus

SKIN DISORDERS
SEE ALSO DISEASES, SIGNS-SYMPTOMS, HIRSUTISM
SEE ALSO METABOLIC DISDRDERS (INBORN), PORPHYRIA
SEE ALSO SKIN ULCERS
P01HL-08899-14 0029 Tolerance to respiratory gases in health and disease - Isobaric gas counter diffusion phenomena (human, pigs)
** R01HL-22699-01 Defibrillation electrode studies (dogs, swine)

SKIN DISORDERS, ERYTHEMA
SEE ALSD CONNECTIVE TISSUE DISORDERS, LUPUS ERYTHEMATOSUS SYSTEMIC
R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)

SKIN DISORDERS CONGENITAL
SEE CONGENITAL ABNORMALITIES, SKIN (GENERAL)

SKIN SECRETIONS, SWEAT
P50HL-19157-02 0007 Studies in cystic fibrosis and bronchiolitis - Analysis of cystic fibrosis factors (human)
R01HL-20634-01 Blood volume and venous return in thermal strain (human)
R01HL-20663-02 Regulation of skin blood flow in man

SKIN SENSITIZING ANTIBODIES
SEE HYPERSENSITIVITY, SKIN SENSITIZING ANTIBDDY

SKIN TESTS, HYPERSENSITIVITY
SEE HYPERSENSITIVITY TESTS SKIN

SKIN TRANSPLANTATION
R01HL-01623-24 Antigens related to graft rejection (rabbits, rats)
P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
P01HL-13108-09 0010 Clinical heart transplantation - Serum factors inhibiting lymphocyte responses in MLC (human, bush babies)
P01HL-13108-09 0012 Clinical heart transplantation - Human T cell sheep erythrocyte receptors
PD1HL-13108-D9 0015 Clinical heart transplantation - Antithymocyte globulin analysis and clinical effects

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immuna rasponsa (dogs)
R01HL-16828-04 Gradient and transport of oxygen in tissue and organs (mammals)
P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
P01HL-18646-03 0002 Studies basic to heart transplantation - Detection of rejection (dogs)
** P01HL-18646-03 0003 Studies basic to heart transplantation - Host responsas to xanografts (rodants, rabbits)
P01HL-18646-03 0006 Studies basic to heart transplantation - Raduction or elimination of existing prasensitization (human, animals)

SKIN ULCERS
SEE ALSO CARDIOVASCULAR DISORDERS, VARICOSE ULCER
** P01HL-08899-14 0029 Tolarance to respiratory gases in health and disease - Isobaric gas counter diffusion phenomana (human, pigs)
P60HL-23282-01 0003 Comprehensive hospital/community sickle cell center - Treatment of sickle cell ulcers with physical therapy and vitamin E (human)

SLEEP
SEE PSYCHIC ACTIVITY LEVEL, SLEEP

SLEEP APNEA
SEE RESPIRATORY FUNCTION, HYPOVENTILATION, RESPIRATORY CENTER DYSFUNCTION

SLEEP DISORDERS
SEE NEUROLOGIC MANIFESTATIONS, SLEEP DISORDERS

SLEEP WALKING
SEE NEUROLOGIC MANIFESTATIONS, SLEEP DISORDERS

SLOW POTENTIALS
SEE ELECTROPOTENTIALS, SLOW POTENTIALS

SLOW REACTING SUBSTANCES
SEE ALSO FATTY ACIDS, UNSATURATED FATTY ACIDS, PROSTAGLANDINS
P50HL-14153-07 0013 Johns Hopkins Lung Center--Chronic diseases of airways - Pulmonary mechanics and mediators of allergic reactions (guinea pigs, human)
P50HL-14153-07 0014 Johns Hopkins Lung Center--Chronic diseases of airways - Mediator release in asthma (human)
M P01HL-17382-05 Chemical mediators of acute pulmonary disorders
P01HL-17382-05 0003 Chemical mediators of acute pulmonary disorders - Chemical mediators relevant to allergic reactions (human, guinea pigs)
R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
** R01HL-21874-01 SRS-A--Its biosynthesis and action

SLOW RELEASE PREPARATIONS (DRUGS)
SEE DRUGS, SLOW RELEASE PREPARATIONS

SLOW VIRUS DISEASES
SEE VIRUS DISEASE CHARACTERISTICS, LATENT DORMANT OR SLOW

SLUMS
SEE SOCIOENVIRONMENT, URBAN POVERTY AREAS

SMALL LYMPHOCYTE DEPENDENT IMMUNE SYSTEM
SEE IMMUNITY, CELLULAR IMMUNITY (GENERAL)

SMOG
SEE AIR POLLUTION

SMOKE INHALATION POISONING (OTHER THAN TOBACCO SMOKING)
SEE TOXICOLOGY, GAS POISONING, SMOKE INHALATION

SMOKING TOBACCO
SEE PSYCHOLOGY, HABITS, SMOKING

SMOLDERING VIRUS DISEASES
SEE VIRUS DISEASE CHARACTERISTICS, LATENT DORMANT OR SLOW

SMOOTH MUSCLE
SEE MUSCLES, SMOOTH MUSCLE

SNAKE BITES AND VENOMS
SEE TOXICOLOGY, ANIMAL POISONS, REPTILE

SNEEZING
SEE RESPIRATORY SYSTEM REFLEXES

SOCIAL ADJUSTMENT
SEE PSYCHOLOGY SOCIAL, SOCIAL ADJUSTMENT

SOCIAL BEHAVIOR
SEE PSYCHOLOGY SOCIAL, SOCIAL BEHAVIOR

SOCIAL CLASS
SEE SOCIOECONOMICS, SOCIAL CLASS

SOCIAL CONFORMITY
SEE PSYCHOLOGY SOCIAL, SOCIAL CONFORMITY

SOCIAL CONTROL, HEALTH
SEE HEALTH SOCIAL CONTROL

SOCIAL DEPRIVATION
SEE PSYCHOSOCIAL ISOLATION DEPRIVATION

SOCIAL DOMINANCE
SEE PSYCHOLOGY SOCIAL, GROUP PROCESSES, SOCIAL DOMINANCE

SOCIAL GROUPS
SEE ALSO HEALTH AND SCIENTIFIC ORGANIZATIONS
SEE ALSO PSYCHOLOGY SOCIAL, GROUP PROCESSES
SEE ALSO SOCIOECONOMICS, INCOME, LOW INCOME GROUPS
R01HL-19869-03 Antecedents of adolescent hypertension (human)
R01HL-22298-02 Origins of hypertension (human)

SOCIAL GROUPS, ETHNIC
SEE ALSO ENVIRONMENT, ECOLOGY HUMAN
SEE ALSO SOCIOLOGY AND ANTHROPOLOGY OTHER, CULTURE
P01HL-13108-09 0009 Clinical heart transplantation - B cell alloantigens in cardiac allograft compatibility (human)
R01HL-19859-03 Epidemiological studies, precursors of hypertension (human)
R01HL-19864-03 0003 Blood pressure of children and young adults - Heart rate and blood pressure--Consistency in infancy (human)
R01HL-19869-03 Antecedents of adolescent hypertension (human)
R01HL-19870-03 Hypertensive progeny--Physical and humoral precursor search
R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
R01HL-20471-03 Atherosclerosis and diabetes mellitus (human)
R23HL-21917-01 Adrenal steroids in adolescent and adult hypertension

SOCIAL GROUPS, ETHNIC, AMERICAN INDIANS
** R01HL-21039-02 Vascular lesions of diabetes in Oklahoma Indians

SOCIAL GROUPS, ETHNIC, AMERICANS, BLACK AMERICANS
R01HL-18456-03 Cardiovascular follow-up of hypertensive adolescents
** R01HL-18715-02 Hypertension incidence project (human)
R01HL-19956-03 High blood pressure in the young (human)
R01HL-20655-02 Autonomic predictors of hypertension in children
P60HL-20985-01 0005 Northern California sickle cell center - Molecular mechanism of alpha thalassemia--Relation to sickle cell anemia (human)
R01HL-21352-02 Community studies of obstructive lung disease (human)
R01HL-22032-01 Cardiovascular events in hypertensives (human)
R01HL-22739-01 Evolution and progression of pediatric atherosclerosis
** R01HL-23201-01 Mechanisms of hypertension (human, rats)

SOCIAL GROUPS, ETHNIC, AMERICANS, HAWAIIANS
R01HL-16774-04 Genetic epidemiology of hyperlipemia (Honolulu)

SOCIAL GROUPS, ETHNIC, AMERICANS, JAPANESE-AMERICANS
R01HL-16774-04 Genetic epidemiology of hyperlipemia (Honolulu)

SOCIAL GROUPS, ETHNIC, AMERICANS, MEXICAN-AMERICANS
R01HL-20005-03 Factors in blood pressure levels of children
R01HL-20655-02 Autonomic predictors of hypertension in children

SOCIAL GROUPS, ETHNIC, AMERICANS, WHITE AMERICANS
R01HL-18456-03 Cardiovascular follow-up of hypertensive adolescents
R01HL-19956-03 High blood pressure in the young (human)
R01HL-20655-02 Autonomic predictors of hypertension in children
R01HL-21352-02 Community studies of obstructive lung disease (human)
R01HL-23194-02 Genetics of hypertension and associated variables (human)
** R01HL-23201-01 Mechanisms of hypertension (human, rats)

SOCIAL GROUPS, ETHNIC, ASIANS, JAPANESE
** N01HV-62955-04 Data collection in clinical pathology and morbid anatomy (men)

SOCIAL GROUPS, ETHNIC, POLYNESIANS
** R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)

SOCIAL GROUPS, MINORITY GROUPS
P01HL-09011 15 0018 A research and resource program in blood - Hepatitis B in normal populations - Epidemiology risk factors and transmission

SOCIAL GROUPS, RACIAL STOCKS
P01HL-08974 14 0028 Natural and experimental atherosclerosis - Geographic pathology of atherosclerosis and coronary heart disease (human)
R01HL-16774-04 Genetic epidemiology of hyperlipemia (Honolulu)

SOCIAL GROUPS, RACIAL STOCKS, BLACK RACE
SEE ALSO SOCIAL GROUPS, ETHNIC, AMERICANS, BLACK AMERICANS
P01HL-08974-14 0005 Natural and experimental atherosclerosis - Atherosclerosis, coronary heart disease and sudden death (human)
R01HL-20005-03 Factors in blood pressure levels of children
R01HL-20034-03 Hypertension--Psychophysiologic and genetic precursors (human)
R01HL-20535-02 Cardiovascular disease and evolving diabetes mellitus (human)
P01HL-20993-02 0003 Population dynamics of arterial cells in atherogenesis - Clonal phenomena in atherogenesis (human, hares)
R01HL-23194-02 Genetics of hypertension and associated variables (human)
N01HV-22938-11 Therapy for hypertension in general population

SOCIAL GROUPS, RACIAL STOCKS, WHITE RACE
P01HL-08974-14 0005 Natural and experimental atherosclerosis - Atherosclerosis, coronary heart disease and sudden death (human)
R01HL-20005-03 Factors in blood pressure levels of children
R01HL-20034-03 Hypertension--Psychophysiologic and genetic precursors (human)
R01HL-20535-02 Cardiovascular disease and evolving diabetes mellitus (human)
R01HL-22032-01 Cardiovascular events in hypertensives (human)

SOCIAL GROUPS, RELIGIOUS, SEVENTH DAY ADVENTISTS
R01HL-20005-03 Factors in blood pressure levels of children

SOCIAL ISOLATION-DEPRIVATION
SEE PSYCHOSOCIAL ISOLATION-DEPRIVATION

SOCIAL PSYCHOLOGY
SEE PSYCHOLOGY SOCIAL (SEE ALSO SOCIAL...)

SOCIAL SERVICE PSYCHIATRIC
SEE MENTAL HEALTH SERVICES, SOCIAL SERVICE PSYCHOSOCIAL

SOCIAL SERVICE PSYCHOSOCIAL
SEE MENTAL HEALTH SERVICES, SOCIAL SERVICE PSYCHOSOCIAL

SOCIAL SERVICES (GENERAL)
SEE ALSO HEALTH AND SCIENTIFIC ORGANIZATIONS, VOLUNTARY HEALTH ORGANIZATIONS
SEE ALSO HEALTH ECONOMICS, FUND RAISING
SEE ALSO MENTAL HEALTH SERVICES, SOCIAL SERVICE PSYCHOSOCIAL
P60HL-15169-05 0021 Support for center for sickle cell disease - Multidisciplinary module system for education, screening and counseling
P60HL-15170-05 0023 Support for center for sickle cell anemia - Comprehensive sickle cell clinic
P60HL-15996-06 0008 Cincinnati comprehensive sickle cell center - Patient care (children, adults)
P60HL-16005-05 0001 Comprehensive sickle cell center - Demonstration--Community service component
P60HL-16008-06 0001 Wayne State University comprehensive sickle cell center - Patient care system (children, adults)
P60HL-16008-06 0011 Wayne State University comprehensive sickle cell center - Education, screening and counseling
P60HL-20985-01 0008 Northern California sickle cell center - Demonstration community program--Patient ambudsman

SOCIAL WORK PSYCHIATRIC
SEE MENTAL HEALTH SERVICES, SOCIAL SERVICE PSYCHOSOCIAL

SOCIETIES, HEALTH AND SCIENTIFIC
SEE HEALTH AND SCIENTIFIC ORGANIZATIONS

SOCIOCULTURE
SEE SOCIOLOGY AND ANTHROPOLOGY OTHER, CULTURE

SOCIOECONOMIC FACTORS IN HYPERTENSION
SEE CARDIOVASCULAR DISORDERS, HYPERTENSION (SYSTEMIC), ENVIRONMENT-ASSOCIATED

SOCIOECONOMICS
SEE ALSO HEALTH ECONOMICS
SEE ALSO HEALTH INSURANCE

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

SEE ALSO OCCUPATIONS
P01HL-08974-14 0005 Natural and experimental atherosclerosis - Atherosclerosis, coronary heart disease and sudden death (human)
P01HL-09011-15 0018 A research and resource program in blood - Hepatitis B in normal populations--Epidemiology, risk factors and transmission
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
R01HL-19858-03 UMMC--Blood pressure precursors and consequences (human)
R01HL-19864-03 0003 Blood pressure of children and young adults - Heart rate and blood pressure--Consistency in infancy (human)
R01HL-19869-03 Antecedents of adolescent hypertension (human)
R01HL-19870-03 Hypertensive progeny--Physical and humoral precursor search
R01HL-19962-03 High blood pressure in young people in Tecumseh
R01HL-22298-02 Origins of hypertension (human)
N01HR-72974-01 Self-management systems for asthmatic children

SOCIOECONOMICS, FINANCING ORGANIZED

SEE ALSO HEALTH ECONOMICS, HEALTH CARE COSTS-FINANCING
SEE ALSO HEALTH ECONOMICS, HEALTH CARE COSTS-FINANCING, MEDICAL INDIGENCY
SEE ALSO HEALTH INSURANCE
P01HL-11310-12 9004 Mechanisms of cardiovascular disease - Core support-computer facilities

SOCIOECONOMICS, FINANCING ORGANIZED, INCOME INSURANCE

P60HL-15996-06 0009 Cincinnati comprehensive sickle cell center - Insurance coverage of persons with sickle cell trait and disease

SOCIOECONOMICS, INCOME, LOW INCOME GROUPS

SEE ALSO HEALTH ECONOMICS, HEALTH CARE COSTS-FINANCING, MEDICAL INDIGENCY
SEE ALSO SOCIOENVIRONMENT, URBAN POVERTY AREAS
P50HL-14153-07 0001 Johns Hopkins Lung Center--Chronic diseases of airways - Genetic and environmental factors in chronic pulmonary disease (human)

SOCIOECONOMICS, SOCIAL CLASS

SEE ALSO SOCIOECONOMICS, INCOME, LOW INCOME GROUPS
R01HL-16774-04 Genetic epidemiology of hyperlipemia (Honolulu)
R01HL-22021-01 Asthma in families-- Behavior analysis of family interaction pattern

SOCIOENVIRONMENT

SEE ALSO ENVIRONMENT, ECOLOGY HUMAN
SEE ALSO FAMILY
SEE ALSO PSYCHOSOCIAL ISOLATION-DEPRIVATION
P01HL-08974-14 0028 Natural and experimental atherosclerosis - Geographic pathology of atherosclerosis and coronary heart disease (human)
R01HL-15174-06 CV disease epidemiology--Second generation studies (human)
R01HL-18776-04 Prevention of acute and fatal cardiovascular disease (human)
R01HL-19839-09 Factors in youth predisposing to chronic diseases (former college students)
R01HL-19922-03 Childhood determinants of blood pressure
R01HL-19929-03 High blood pressure in the young, prevalence and precursors (human)
R01HL-19930-03 A prospective study--Blood pressure in newborn twins
R01HL-19962-03 High blood pressure in young people in Tecumseh
R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
R01HL-20005-03 Factors in blood pressure levels of children
R01HL-22298-02 Origins of hypertension (human)

SOCIOENVIRONMENT, RESIDENCE CHARACTERISTICS, HOUSING

P50HL-18318-03 0012 Pathogenesis and complications of hypertension - Behavioral factors in hypertension (human)
R01HL-19073-02 Heart disease and drinking water at home

SOCIOENVIRONMENT, RESIDENTIAL MOBILITY

P50HL-14136-07 0009 Pulmonary SCOR--Airways obstructive diseases - Tuscon epidemiological study of airways obstructive disease (human)
P50HL-18318-03 0012 Pathogenesis and complications of hypertension - Behavioral factors in hypertension (human)

SOCIOENVIRONMENT, RESIDENTIAL MOBILITY, MIGRANTS

SEE ALSO POPULATION STUDIES HUMAN
R01HL-20159-03 Genetic epidemiology of precursors of hypertension (human)

SOCIOENVIRONMENT, RURAL AREAS

P50HL-14153-07 0010 Johns Hopkins Lung Center--Chronic diseases of airways - Risk factors for airways obstruction in a rural community (human)
** P60HL-17292-04 0003 Vermont Lung Center - Subclinical pulmonary disease in a rural environment (human)
** R01HL-18175-03 Drug taking for hypertension in a rural community
R01HL-21352-02 Community studies of obstructive lung disease (human)
R01HL-22802-01 A rural mining community hypertension control project (human)
N01HV-42902-08 Epidemiological studies of coronary heart disease (human)

SOCIOENVIRONMENT, URBAN AREAS

** R01HL-18715-02 Hypertension incidence project (human)
R01HL-21352-02 Community studies of obstructive lung disease (human)
N01HV-42902-08 Epidemiological studies of coronary heart disease (human)

SOCIOENVIRONMENT, URBAN POVERTY AREAS

P50HL-18318-03 0012 Pathogenesis and complications of hypertension - Behavioral factors in hypertension (human)

SOCIOLOGY AND ANTHROPOLOGY OTHER, CULTURE

SEE ALSO SOCIAL GROUPS, ETHNIC
R01HL-22298-02 Origins of hypertension (human)

SOD

SEE METALLOPROTEINS, CYTOCUPREINS

SODIUM

SEE ALSO BODY FLUID BALANCE, IONIC, HYPONATREMIA
SEE ALSO KIDNEY FUNCTION, SALURESIS
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
R01HL-02334-23 Micropuncture study of kidney function (rats, animals)
R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
R01HL-03303-21 Factors regulating electrolyte excretion by the kidney (human, dogs)
P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)
P01HL-06312-17 0051 Surgical cardiology - Diuretic therapy on myocardial electrolyte composition and water content (human)
R01HL-07835-17 Experimental hypertension and renal circulation (rats, rabbits)
P01HL-07896-15 0049 Environmental biomedical research program - Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats)
R01HL-09364-14 Ion transport by heart mitochondria (cattle, rat, rabbit)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
R01HL-10612-13 0018 Humoral factors in heart failure and hypertension - The pathogenesis of experimental renal hypertension (dogs, rabbits, rats)
R01HL-10612-13 0021 Humoral factors in heart failure and hypertension - The control of aldosterone secretion (dogs)
R01HL-10942-09 Study of genetic hypertension in rats
P01HL-11351-12 0018 Cellular and molecular mechanisms of myocardial function - Quantitative localization of electrolytes in cardiac tissue
** P01HL-11678-11 0001 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (rats, dogs)
P01HL-11678-11 0046 Cardiovascular dynamics and their control - Regulation of aldosterone secretion and related factors (dogs)
P01HL-11678-11 0047 Cardiovascular dynamics and their control - Unidentified pituitary factor in regulation of aldosterone secretion (rats)
P01HL-11678-11 0063 Cardiovascular dynamics and their control - Renin-angiotensin system--Control of renal hemodynamics, electrolyte excretion
P01HL-12157-11 0058 Functions and mechanisms of cell membrane ion transport - Ionic and osmotic regulation in toadfish--A euryhaline aglomerular teleost
P01HL-12157-11 0060 Functions and mechanisms of cell membrane ion transport - Ion transport and electrical properties of giant-celled aiga
P01HL-12738-10 0134 Physiologic pharmacology and its clinical applications - Adenylate cyclase and cAMP phosphodiesterase in cardiac development (dogs)
** R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
** R01HL-12879-09 0006 Pulmonary transport and metabolism in vivo - The missing sodium
R01HL-12879-09 0008 Pulmonary transport and metabolism in vivo - Stop-flow technique for permeability measurements
R01HL-13237-09 Erythrocytes during early development (human, animals)
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
R01HL-13349-06 Analysis of activation process in heart muscle (guinea pigs, rabbits, human)
R01HL-13595-08 Renin and vascular hyper-reactivity in hypertension (human, rats)
R01HL-14133-08 Intrarenal regulation of sodium reabsorption (dogs, hamsters, rats)
R01HL-14148-07 0002 The regional circulations - Catecholamine metabolism in subtypes of hypertension (human, animals)
P50HL-14159-08 0008 Specialized center of research in hypertension - Renal function and sodium metabolism in hypertension (rats, human, rabbits)
P50HL-14159-08 0020 Specialized center of research in hypertension - Renin-mineralocorticoid system in hypertension (human, rat, dog)
** P01HL-14388-07 0157 Regulation of the circulation in pathological states - Autoregulation of renal blood flow and distribution in sodium excretion control
** P01HL-14388-07 0210 Regulation of the circulation in pathological states - Effects of dietary sodium on blood pressure and vascular reactivity
** P01HL-14388-07 0223 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (rats)
** P01HL-14388-07 0224 Regulation of the circulation in pathological states - Kallikrein-kinin system in hypertension (human)
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
R01HL-14560-07 Hypertension produced by sympathetic dysfunction (human, rats)
R01HL-14944-07 Renal vascular reactivity in hypertensive patient
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
P01HL-15835-06 0023 Study of muscles related to heart disease - Cellular basis of the Frank-Starling curve (frogs, rats)
R01HL-16010-16 Cellular basis of cardiac contractility (frogs)
P01HL-16117-05 0002 Ion movements and membranes in cardiovascular control - Fluorescence and excitation-contraction coupling in heart (frogs)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
R01HL-17879-04 Molecular structure of the ouabain sensitive ATPase (dogs)
R01HL-18053-03 Intracellular ionic activities in heart muscle (frogs)
** P50HL-18318-03 0007 Pathogenesis and complications of hypertension - Humoral factors and renal function in experimental hypertension (rats)
P50HL-18318-03 0013 Pathogenesis and complications of hypertension - Humoral factors and renal function in human hypertension
P50HL-18318-03 0019 Pathogenesis and complications of hypertension - Renin-angiotensin system in blood pressure regulation (human, rat, dog)
P50HL-18323-04 0011 SCOR hypertension center - Endocrine profiling on a selected normal population (human)
P01HL-18575-03 0002 Mechanisms of vascular changes in hypertension - Endocrines, electrolytes, and hemodynamics in hypertension (pigs)
P01HL-18575-03 0005 Mechanisms of vascular changes in hypertension - Renin synthesis in normotensive and hypertensive pigs (also rats, dogs)
R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
R01HL-18875-03 Angiotension, prostaglandins, pressure and the kidney (rats)
R01HL-18882-02 Hormones in hypertension (human)
P50HL-19157-02 0001 Studies in cystic fibrosis and bronchiolitis - Laboratory core unit
P50HL-19157-02 0007 Studies in cystic fibrosis and bronchiolitis - Analysis of cystic fibrosis factors (human)
R01HL-19229-02 Prostaglandins and hypertension (human, rats, dogs, rabbits)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
** R01HL-19320-03 Angiotensin neuropharmacology--Relationship to sodium
** P50HL-19362-02 0012 A/S SCOR--Atherosclerosis in nonhuman primates - Induction of chronic hypertension by salt loading (baboon)
R01HL-19653-03 Circulatory system effects of angiotensin analogs (rats)
R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
R01HL-20711-01 Structure-function relationships in red cell NA-K pumps (goats)
R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
R01HL-20725-02 Mechanisms and cellular functions of ion transport
R01HL-21030-01 Calcium regulation and hypertension (rats)
** R01HL-21092-02 Factors other than renin in renal hypertension (rats)
R23HL-21196-02 Digitalis induced arrhythmia and NAO KO-atpase activity (dogs)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

RD1HL-21210-D1 Acute renal failure following cardiac surgery (human)
R23HL-21213-D1 A model for calcium homeostasis in exciteble tissue (marine worms)
RO1HL-21371-02 Energy loss microanelysis of myocardial cations
RD1HL-21493-02 Contractility in cardiac failure (hamsters)
RO1HL-21673-01 Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)
RD1HL-21849-02 Control of sodium transport and cellular respiration (toed bladder)
RO1HL-21860-18 Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats)
** RO1HL-22039-02 Ion transport in cardiac muscle (dogs, rodents, cattle)
RO1HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)
RO1HL-22836-01 The spontaneously hypertensive kidney (rats)
RO1HL-23392-01 Membrane binding and transport of calcium and potassium ionophores

SODIUM BICARBONATE
** P50HL-19185-02 0007 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sodium bicarbonate and albumin in resuscitation of preterm infants (human)

SODIUM CHLORIDE
SEE ALSO NUTRITION, DIET THERAPEUTIC, SALT RESTRICTED
** P01HL-06285-18 0199 Cardiovascular-respiratory physiology and biochemistry - Renal tubular reabsorption of sodium chloride (hamsters, rabbits)
** P01HL-06285-18 D200 Cardiovascular-respiratory physiology and biochemistry - Medullary counter-current system (animals)
** R01HL-09911-12 Hormonal and dietary modification of NaCl toxicity (rats) mice)
P01HL-14414-D7 D014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system

SODIUM NITROFERRICYANIDE (NITROPRUSSIDE)
SEE IRON CYANIDES, SODIUM NITROFERRICYANIDE

SODIUM PENTOTHAL
SEE PYRIMIDINES, BARBITURATES, THIOPENTAL

SODIUM-POTASSIUM PUMP
SEE BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS, SODIUM-POTASSIUM PUMP

SODIUM PUMP
SEE BIOLOGICAL TRANSPORT, ACTIVE TRANSPORT, ION PUMPS, SODIUM PUMP

SODIUM SALICYLATE
SEE PHENYLCARBOXYLATES, SALICYLATES

SODIUM TRANSPORT DISORDERS, BARTTER'S SYNDROME
SEE METABOLIC DISORDERS INBORN, BARTTER'S SYNDROME

SOLID STATE
SEE PHYSICAL PROPERTIES, SOLID STATE

SOLITARY TRACT NUCLEUS
SEE BRAIN, MEDULLA OBLONGATA, SOLITARY TRACT NUCLEUS

SOLUBILITY
SEE PHYSICAL PROPERTIES, SOLUBILITY

SOLUBLE RIBONUCLEIC ACID
SEE NUCLEIC ACIDS, TRNA

SOLUTES
SEE PHYSICAL PROPERTIES, SOLUTES

SOLUTIONS
SEE PHYSICAL PROPERTIES, SOLUTIONS

SOLUTIONS (DOSAGE FORM)
SEE DOSAGE FORMS

SOLUTIONS ASSOCIATION
SEE PHYSICAL PROPERTIES, SOLUTIONS ASSOCIATION

SOLVATION ENERGIES
SEE BIOLOGICAL TRANSPORT, TRANSPORT ENERGETICS

SOLVENT FRACTIONATION
SEE PHYSICAL SEPARATION, FRACTIONATION, SOLVENT*

SOLVENTS
SEE PHYSICAL PROPERTIES, SOLVENTS

SOLVOLYSIS
SEE CHEMICAL REACTIONS, SOLVOLYSIS

SOMATIC AFFERENT NERVES
SEE NERVOUS SYSTEM, AFFERENT NERVES, SOMATIC AFFERENT NERVES

SOMATIC ANTIGENS, NONMICROBIAL
SEE IMMUNOLOGY, ANTIGENS, SURFACE ANTIGENS (GENERAL)

SOMATIC CELL GENETICS
SEE GENETICS, SOMATIC CELL AND TRANSFORMATION

SOMATIC REFLEXES
SEE NEUROPHYSIOLOGY, REFLEX, SOMATIC REFLEXES

SOMATOLOGY (GENERAL)
SEE BODY PHYSICAL CHARACTERISTICS (GENERAL)

SOMATOMAMMOTROPIN, CHORIONIC
SEE REPRODUCTIVE HORMONES, CHORIONIC SOMATOMAMMOTROPIN

SOMATOMEDIN
SEE GROWTH HORMONES VERTEBRATE, SOMATOMEDIN (SULFATION FACTOR)(THYMIDINE FACTOR)

SOMATOSENSORY MOTOR SYSTEM (GENERAL)
SEE NEUROMOTOR SYSTEM, SENSORIMOTOR SYSTEMS (GENERAL)

SOMATOTROPIN
SEE PITUITARY-DIENCEPHALON HORMONES, SOMATOTROPIN

SOUND
SEE PHYSICAL PROPERTIES, SOUND

SOUND FREQUENCY
SEE PHYSICAL PROPERTIES, SOUND FREQUENCY

SOUND MEASUREMENTS, HEART
SEE HEART DISORDERS DIAGNOSIS, HEART SOUND MEASUREMENTS*

SOUND MEASUREMENTS, VASCULAR
SEE CARDIOVASCULAR DISORDERS DIAGNOSIS, SOUND MEASUREMENTS, VASCULAR*

SOUTH AMERICA
SEE GEOGRAPHICAL SITES, S. AMERICA

SPACE BIOLOGY, MEDICINE
SEE ENVIRONMENT, EXTRATERRESTRIAL, SUPRATERRESTRIAL

SPASMOLYTICS
SEE MUSCLE RELAXANTS, ANTISPASMODICS

SPECIAL (REMEDIAL) EDUCATION
SEE EDUCATION, SPECIAL (REMEDIAL)

SPECIES
SEE BIOLOGY, SYSTEMATIC, SPECIES

SPECIFIC GRAVITY
SEE PHYSICAL PROPERTIES, DENSITY (SPECIFIC GRAVITY)

SPECTRIN
SEE PROTEINS, MEMBRANE PROTEINS, SPECTRIN

SPECTROGRAPHY
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY*

SPECTROMETRY
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY*

SPECTROPHOTOFLUOROMETRY
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROPHOTOFLUOROMETRY*

SPECTROPHOTOMETRY
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY*

SPECTROSCOPY
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY*

SPECTROSCOPY, FOURIER TRANSFORM
SEE OPTICS, INTERFEROMETRY*

SPECTROSONOGRAPHY (HEART)
SEE HEART DISORDERS DIAGNOSIS, HEART SOUND MEASUREMENTS*

SPERMATOZOA
SEE FERTILITY, SPERM (ALL STAGES)

SPERMIDINE
SEE AMINES, SPERMIDINE

SPERMINE
SEE AMINES, SPERMINE

SPHEROCYTOSIS HEREDITARY
SEE BLOOD AND RE DISORDERS, ANEMIA HEMOLYTIC CONGENITAL, SPHEROCYTOSIS HEREDITARY (GENERAL)

SPHEROIDAL CELL CARCINOMA (CARCINOID)
SEE NEOPLASMS OF NERVOUS SYSTEM, CARCINOID

SPHINGOLIPIDS, CERAMIDE
RO1HL-17462-D3 Role of glycosphingolipids in platelet aggregation (rats, human, dogs)

SPHINGOMYELINS
SEE PHOSPHOLIPIDS, PHOSPHOSPHINGOLIPIDS, SPHINGOMYELINS

SPIDER BITES AND VENOMS
SEE TOXICOLOGY, ANIMAL POISONS, ARTHROPOD, SPIDER

SPIDER MONKEY
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*

SPIKE POTENTIAL
SEE ELECTROPOTENTIALS, SPIKE POTENTIAL

SPINAL CORD
SEE NERVOUS SYSTEM CENTRAL, SPINAL CORD

SPINAL CORD LESIONS SURGICAL
SEE NEUROSURGERY, SPINAL CORD LESIONS SURGICAL

SPINAL CORD MAPPING
SEE NERVOUS SYSTEM CENTRAL, SPINAL CORD MAPPING

SPINAL FLUID
SEE NERVOUS SYSTEM CENTRAL, CEREBROSPINAL FLUID

SPINAL INJURIES
SEE INJURIES, BACK, SPINAL

SPINAL NERVES
SEE NERVOUS SYSTEM, SPINAL NERVES

SPINAL REFLEXES
SEE NEUROPHYSIOLOGY, REFLEX, SPINAL REFLEXES

SPIROMETRY
SEE RESPIRATORY DISORDERS DIAGNOSIS, SPIROMETRY*

SPIRONOLACTONE
SEE STEROIDS SPIROLACTONES, SPIRONOLACTONE

SPLANCHNIC NERVES
SEE NERVOUS SYSTEM AUTONOMIC, SPLANCHNIC NERVES

SPLEEN
SEE BLOOD AND RE SYSTEM, SPLEEN

SPLEEN TISSUE (CELLS) TRANSPLANTATION
SEE BLOOD AND RE SYSTEM, SPLEEN TISSUE (CELLS) TRANSPLANTATION

SPLENECTOMY
SEE BLOOD AND RE SYSTEM, SPLENECTOMY

SPLENIC ARTERY
SEE CARDIOVASCULAR SYSTEM, ARTERIES, SPLENIC ARTERY

SPLENIC DISORDERS
SEE BLOOD AND RE DISORDERS, SPLENIC DISORDERS

SPLENOMEGALY
SEE BLOOD AND RE DISORDERS, SPLENIC DISORDERS, SPLENOMEGALY

SPLENORENAL SHUNT FOR VENOUS BYPASS OF LIVER
SEE LIVER CIRCULATION, VENOUS BYPASS OF LIVER

SPONTANEOUS HYPERTENSIVE RATS
SEE MAMMALS, RODENTS, MYOMORPHA, SPONTANEOUS HYPERTENSIVE RATS*

SPREADING FACTOR
SEE CARBOHYDRASES, HYALURONIDASE

SPREADING FACTOR (HYALURONATE LYASE)
SEE POLYSACCHARIDE C-O LYASES, HYLURONATE LYASE

SPUTUM
SEE BODY FLUIDS, SPUTUM

SQUALENE
SEE TERPENES, SQUALENE

SQUIRREL MONKEYS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*

SRNA
SEE NUCLEIC ACIDS, TRNA

SRS
SEE SLOW REACTING SUBSTANCES

STABILE COMPONENT
SEE BLOOD COAGULATION, FACTOR VII

STABILE FACTOR
SEE BLOOD COAGULATION, FACTOR VII

STABILITY, CHEMICAL
SEE CHEMICAL STABILITY

STABLE CARBON LABELED
SEE ISOTOPE LABELED, STABLE CARBON

STABLE ISOTOPE EFFECTS
SEE ISOTOPE EFFECTS (EXCLUDING RADIATION EFFECTS)

STABLE (LABELED) ISOTOPE DIAGNOSIS
SEE RADIOISOTOPE (NUCLEAR) MEDICINE, STABLE (LABELED) ISOTOPE DIAGNOSIS

STAGING, NEOPLASMS
SEE NEOPLASMS CLASSIFICATION AND STAGING

STANDARDIZATION
SEE BIOLOGICAL PREPARATIONS AND STANDARDIZATION
SEE DRUG QUALITY-STANDARDS
SEE TISSUE (CELL) CULTURE, CELL CULTURE COLLECTIONS BANKS AND REGISTRIES

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

STANDARDS, DIAGNOSTIC
SEE DIAGNOSTIC QUALITY-STANDARDS

STANDARDS FOR HEALTH CARE QUALITY
SEE HEALTH CARE QUALITY

STANDARDS FOR INFORMATION GATHERING METHODS (GENERAL)
SEE INFORMATION GATHERING METHODS EVALUATION-STANDARDS

STANNOUS FLUORIDE
SEE HALOGENS, FLUORINE (COMPOUNDS) SEE ALSO SPECIFICS

STANOLONE
SEE ANOROSTANE SERIES, ANOROSTANOLONE

STAPHYLOCOCCAL INFECTIONS
SEE BACTERIAL DISEASES, STAPHYLOCOCCAL INFECTIONS

STAPHYLOCOCCUS
SEE BACTERIA, MICROCOCCACEAE, STAPHYLOCOCCUS*

STAPHYLOCOCCUS AUREUS
SEE BACTERIA, MICROCOCCACEAE, STAPHYLOCOCCUS AUREUS*

STAPHYLOCOCCUS EPIDERMIDIS
SEE BACTERIA, MICROCOCCACEAE, STAPHYLOCOCCUS EPIDERMIDIS*

STARVATION
SEE NUTRITIONAL ABNORMALITIES, STARVATION

STATISTICAL MODELS
SEE MODELS, MATHEMATICAL

STATISTICAL SERVICE AND CENTERS
SEE ALSO COMPUTER CENTERS
** P50HL-14164-07 0039 A/S SCOR--Comparative and experimental atherosclerosis - Statistical resource and research management unit

STATISTICS
SEE MATHEMATICS, STATISTICS (INCLUDING BIOMETRY)
SEE NEOPLASTIC DISEASE EPIDEMIOLOGY-STATISTICS

STEARIC ACID
SEE FATTY ACIDS, STEARIC ACID

N-STEAROYL-O-LACTOSYLSPHINGOSINE
SEE GLYCOSPHINGOLIPIDS, CERAMIDE DIHEXOSIDES

N-STEAROYLSPHINGOSINE
SEE SPHINGOLIPIDS, CERAMIDE

STEATORRHEA, CONGENITAL PANCREATIC
SEE METABOLIC DISORDERS INBORN, CYSTIC FIBROSIS

STEINERT'S DISEASE
SEE METABOLIC DISORDERS INBORN, MYOTONIA ATROPHICA

STEM CELLS, HEMATOPOIETIC
SEE BLOOD CELLS, HEMATOPOIETIC STEM CELLS (GENERAL)

STEREOCHEMISTRY
SEE CHEMICAL STRUCTURE, STEREOCHEMISTRY

STEREOISOMERS
SEE CHEMICAL STRUCTURE, ISOMERS, STEREOISOMERS (GENERAL)

STEREOPHOTOGRAPHY
SEE OPTICS, PHOTOGRAPHY, STEREOPHOTOGRAPHY*

STEREOTAXIC TECHNIQUE
R01HL-16315-05 Analysis of interaction between CNS vasomotor systems (cats, rats)

STERILITY
SEE FERTILITY

STEROID AGLYCONES
SEE STEROIDS GLYCOSIDES AGLYCONES

STEROID GLYCOSIDES
SEE STEROIDS GLYCOSIDES

STEROID HORMONES
SEE ENDOCRINOLOGY, HORMONES, STEROID HORMONES

STEROID HORMONES BIOSYNTHESIS
SEE ENDOCRINOLOGY, HORMONES BIOSYNTHESIS, STEROID HORMONES BIOSYNTHESIS

STEROID HYDROXYLASES (GENERAL)
SEE OXYGENASES, STEROID MONOOXYGENASES (GENERAL)

STEROID METABOLISM
SEE ALSO STEROIDOGENESIS
** R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
** R01HL-03299-21 Dietary effects on cholesterol metabolism (rats, rabbits)
R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
R01HL-05209-18 Lipid metabolism (monkeys)
M R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)
R01HL-06481-15 Lipid metabolism (human, rats)
** P01HL-06835-17 0020 Cardiovascular disease - Lipid metabolism (rats)
R01HL-09744-14 Experimental vascular sclerosis (monkeys, rabbits)
** R01HL-10894-12 Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats)
R01HL-10933-13 Fat metabolism and atherosclerosis (rabbits, cattle, human, rats)
R01HL-11901-12 0004 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Cholesterol dynamics studies (rats, rabbits, dogs)
R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
P01HL-13262-07 0016 Arterial wall in atherosclerosis - Lipids in elastin preparations from atherosclerotic plaques (human, animals)
R01HL-13405-09 Regulation of lipid metabolism in the lung (rats)
P50HL-14164-07 0029 A/S SCOR--Comparative and experimental atherosclerosis - Development of pigeon substrains
** P50HL-14164-07 0033 A/S SCOR--Comparative and experimental atherosclerosis - Comparative studies of lipoprotein distribution and metabolism (monkeys)
P50HL-14164-07 0035 A/S SCOR--Comparative and experimental atherosclerosis - Lipid metabolism--Interaction with arterial metabolism (monkey, pigeon)
P50HL-14164-07 0036 A/S SCOR--Comparative and experimental atherosclerosis - Connective tissue metabolism--Interaction with arterial metabolism (monkeys)
** P50HL-14164-07 0037 A/S SCOR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
M P50HL-14197-07 Support for center of research on arteriosclerosis
P50HL-14197-07 0006 Support for center of research on arteriosclerosis - Diets and drugs affecting lipid metabolism (human)
P50HL-14197-07 0007 Support for center of research on arteriosclerosis - Metabolic defects in familial hyperlipoproteinemias (human)
P50HL-14230-07 0092 A/S SCOR--Lipids, atherosclerosis and thrombosis - Tissue lipids--Cell culture studies (human)
** P50HL-14236-05 0001 Prevention of premature arteriosclerosis - Metabolism and transport of cholesterol and vitamin A (human, rats)
P50HL-14236-05 0009 Prevention of premature arteriosclerosis - Clinical studies on cholesterol metabolism (human)
R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
R01HL-15263-06 Lecithin--Cholesterol acetyltransferase (human, rabbits)
R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
R01HL-15504-05 Animal model for studies on averting atherosclerosis (swine)
R01HL-15646-03 Lipid studies in vascular smooth muscle cells (human, monkeys)
R01HL-15797-05 Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels)
R01HL-15895-05 In vitro study of lipoproteins in vascular disease (human, animals)
R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
R01HL-17371-05 Regualtion of cholesteryl ester levels in the aorta (swine)
R01HL-17564-03 Unsaturated fats--Mode of hypocholesterolemic action (minipig)
R01HL-18157-04 Subcellular events in atherosclerosis (human, rabbits, calves)
P50HL-18318-03 0015 Pathogenesis and complications of hypertension - Cultured smooth muscle cells and microvessel metabolism (mammals)
M P01HL-18574-03 Lipoprotein methodology and biomedical applications
P01HL-18574-03 0004 Lipoprotein methodology and biomedical applications - Fine structure and metabolism of lipoproteins--EM studies (guinea pigs)
** R01HL-18682-03 Protein kinase and cholesterol metabolism in aorta (rabbits)
R01HL-18687-03 Pathophysiology of genetic hypertriglycerinemias (human)
P50HL-19362-02 0001 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of infant nutrition on atherosclerosis (baboons)
P50HL-19362-02 0003 A/S SCOR--Atherosclerosis in nonhuman primates - Heritability of characters related to atherosclerosis (baboons)
P50HL-19362-02 0005 A/S SCOR--Atherosclerosis in nonhuman primates - Hybridization to produce primate model of atherosclerosis (baboon, Rhesus)
** P50HL-19362-02 0009 A/S SCOR--Atherosclerosis in nonhuman primates - Cholesterol metabolism and intestinal microflora (baboon)
P50HL-19362-02 0013 A/S SCOR--Atherosclerosis in nonhuman primates - Core laboratory--Lipid biochemistry (baboons)
R01HL-20183-02 Portacaval shunt as treatment for hyperlipemia (pigs)
R01HL-20418-03 Serum cholesterol binding reserve in diabetes (human)
** R01HL-20483-03 Sterol balance and cholesterol absorption in diabetics (human)
** R01HL-20488-03 Cholesterol metabolism in diabetic man
M P50HL-21006-02 Specialized center of research in arteriosclerosis
** P50HL-21006-02 0002 Specialized center of research in arteriosclerosis - Turnover and metabolism of cholesterol in man
R01HL-23598-01 Dietary fat, cholesterol and bile acid turnover (rats)

STEROID METABOLISM DISORDERS INBORN
SEE ADRENAL GLANDS DISORDERS, HYPERALDOSTERONISM

STEROID MONOOXYGENASES (GENERAL)
SEE OXYGENASES, STEROID MONOOXYGENASES (GENERAL)

STEROID SULFATES
SEE STEROIDS SULFATES

STEROIDOGENESIS
R01HL-02033-23 Regulation of cholesterol esters in blood and tissues (rat, cattle, human)
R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
R01HL-05360-19 Cholesterol biosynthesis and its control in liver (rats)
P01HL-06835-17 0020 Cardiovascular disease - Lipid metabolism (rats)
P01HL-06835-17 0032 Cardiovascular disease - Synthesis of angiotensin II as inhibitors for aldosterone
P01HL-06835-17 0055 Cardiovascular disease - Vascular and adrenocortical response to angiotensin II (dogs)
P01HL-06835-17 0056 Cardiovascular disease - Angiotensin analogs--Sarcosine on arterial pressure, aldosterone (dogs)
R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
** R01HL-08634-15 Enzymic cholesterol synthesis (human, rats, protozoa, yeast)
R01HL-11901-12 0004 Effects of metabolic surgery on the hyperlipidemias - Ileal bypass--Cholesterol dynamics studies (rats, rabbits, dogs)
R01HL-11901-12 0015 Effects of metabolic surgery on the hyperlipidemias - Portacaval shunt for cholesterol reduction (dogs, rabbits)
R01HL-12740-10 Hypocholesterolemic agents--Stereochemistry (rats)
** P50HL-14164-07 0037 A/S SCOR--Comparative and experimental atherosclerosis - Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey)
P50HL-14230-07 0093 A/S SCOR--Lipids, atherosclerosis and thrombosis - Clinical studies involving cellular lipid content (human)
P50HL-14236-05 0009 Prevention of premature arteriosclerosis - Clinical studies on cholesterol metabolism (human)
R01HL-14313-07 Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats)
** R01HL-15476-05 Mechanism and control of sterol biosynthesis (rats)
R01HL-15930-06 Hormonal control of lipid and lipoprotein synthesis (rats)
** R01HL-16294-04 Effectors of cholesterol synthesis (rats)
R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
R01HL-17458-04 Renal control of sodium excretion (rats)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)
R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
R01HL-18553-03 Membrane defects in familial hypercholesteremia (human)
R01HL-19063-03 Cholesterol and lipoprotein metabolism (rat hepatocytes)
R01HL-19223-03 Control of cholesterogenesis in leukocytes and liver (rats, human)
R01HL-20183-02 Portacaval shunt as treatment for hyperlipemia (pigs)
R01HL-20488-03 Cholesterol metabolism in diabetic man
R23HL-21066-02 Angiotensin and prostaglandin control of aldosterone (rats)
R01HL-22990-01 Angiotensin II receptors--Mechanisms of regulation (rats)

STEROIDS
SEE ALSO BILE ACIDS AND SALTS
SEE ALSO CHOLANATE SERIES
SEE ALSO ENDOCRINOLOGY, HORMONES, STEROID HORMONES
SEE ALSO STEROLS
R01HL-08399-15 Platelet injury in infections and allergic diseases (human)
** R01HL-12557-09 Effects of steroids and pregnancy on arteries and veins (guinea pigs)
R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

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R01HL-13619-09 Microsomal electron transport in liver and heart (human, mammals)
P01HL-14388-07 0219 Regulation of the circulation in pathological states - Myocardial ischemia and infarction in animals (dogs)
R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
P01HL-14985-07 0005 Adaptation to hypoxia - Control mechanisms in the pulmonary microcirculation (animals)
** R01HL-16651-05 Evaluation of steroid therapy in sarcoidosis (human)
P01HL-16769-05 0008 Pathobiologic and host defense reactions in the lung - Pulmonary immunocytologic defense mechanisms against bacteria (human, animals)
R01HL-16916-04 0001 The role of albumins in lung water accumulation - Capillary permeability (dogs, human)
R01HL-16916-04 0011 The role of albumins in lung water accumulation - Whole body distribution and exchange of albumin (rabbits, human, monkeys)
** R01HL-16918-05 Role of steroids in hypertension (human)
P60HL-17269-04 0016 National heart and blood vessel research and demonstration center - New analytical methodology for atherosclerosis studies
P01HL-17813-04 0001 Lung disease and the oxygenation of blood and tissue - Diffuse interstitial lung disease--Pathophysiology (human, dogs)
** R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
R01HL-19077-01 Biochemistry and molecular biology of sarcoidosis (human, rabbits)
P50HL-19153-02 0003 SCOR--Pulmonary edemas--Etiology, pathogenesis - Possible inhibitors of mediator release and pulmonary vascular response (sheep)
R23HL-19573-01 Studies on pulmonary serotonin (mice)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)
** P01HL-20993-02 0008 Population dynamics of arterial cells in atherogenesis - Angiotoxicity of cholesterol oxidation in atherogenesis (rabbits)
R01HL-21922-01 Transient currents induced by strophanthidin in the heart
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R01HL-22883-01 Lung epithelial cell interactions in vitro

STEROIDS, HYDROXYSTEROIDS
SEE ALSO STEROLS
R01HL-20176-02 Biochemistry and genetics of salt hypertension (rats)

STEROIDS ANALOGS
SEE ALSO CHOLESTANE SERIES, CHOLESTEROL ANALOGS
R01HL-21457-01 C(17)-side group geometry and cardenolide activity (cats, guinea pigs)

STEROIDS GLYCOSIDES
SEE ALSO CARDIAC GLYCOSIDES
R01HL-16549-04 Cardiotonic steroid-NaK ATPase interactions (cattle)

STEROIDS GLYCOSIDES AGLYCONES
R01HL-16549-04 Cardiotonic steroid-NaK ATPase interactions (cattle)
** R01HL-18118-04 Total synthesis of cardiac aglycones

STEROIDS SPIROLACTONES, SPIRONOLACTONE
R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
P01HL-06835-17 0045 Cardiovascular disease - Pressure-volume-renin relationship in human hypertension
** P01HL-06835-17 0047 Cardiovascular disease - Spironolactone in primary aldosteroidism (human)
P01HL-06835-17 0049 Cardiovascular disease - Selective hypoaldosteronism (human)
R01HL-11046-12 Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits)
P01HL-11414-11 0014 Thrombosis and atherosclerosis program - Role of adrenal in human essential hypertension
P01HL-11678-11 0065 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (dogs)
P50HL-14192-08 0007 Specialized center of research in hypertension - Role of new mineralocorticoids in hypertension (human, rats)
P01HL-14388-07 0190 Regulation of the circulation in pathological states - Mechanisms of the renal actions of aldosterone (rats)
R01HL-17458-04 Renal control of sodium excretion (rats)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
P50HL-18323-04 0037 SCOR hypertension center - Adrenocortical factors in childhood hypertension
R01HL-18730-03 Role of mineralocorticoids in low renin hypertension (human, rats)
R01HL-19428-03 Role of angiotensin sensitivity in renin release (human)
R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)
R01HL-22482-01 Circulatory hemodynamics and sodium excretion (dogs)

STEROIDS SULFATES
R01HL-17818-05 Metabolism of cholesterol and cholestanol in man (also rats, monkeys)

STEROL-ESTER HYDROLASE
SEE ESTERASES, CHOLESTEROL ESTERASE

STEROLS
SEE ALSO BILE ALCOHOLS
SEE ALSO STEROIDS
R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
** R01HL-07878-16 Metabolism of neutral sterols (rats, rabbits)
R01HL-08634-15 Enzymic cholesterol synthesis (human, rats, protozoa, yeast)
** P01HL-08974-14 0024 Natural and experimental atherosclerosis - Atherosclerosis, sterol and lipoprotein metabolism in nonhuman primates
R01HL-10160-13 Origins of atherosclerosis (human)
R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
P50HL-14236-05 0009 Prevention of premature arteriosclerosis - Clinical studies on cholesterol metabolism (human)
** R01HL-15376-06 Intermediary metabolism of sterols (mice)
** R01HL-15476-05 Mechanism and control of sterol biosynthesis (rats)
R01HL-15646-03 Lipid studies in vascular smooth muscle cells (human, monkeys)
R01HL-16660-06 Phospholipid-cholesterol and phospholipid-protein interactions
R01HL-17882-04 Regulation of HMG-COA reductase and sterol synthesis (human, mammals)
R01HL-18610-03 Early intervention of age related arterial changes (pigeon)
** R01HL-20483-03 Sterol balance and cholesterol absorption in diabetics (human)
M P01HL-20948-02 Molecular basis of cholesterol metabolism
** P01HL-20948-02 0001 Molecular basis of cholesterol metabolism - Biochemical and ultrastructural characterization of LDL in human fibroblasts
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
P01HL-20948-02 0004 Molecular basis of cholesterol metabolism - Genetic analysis of the LDL pathway (human)
** P01HL-20993-02 0008 Population dynamics of arterial cells in atherogenesis - Angiotoxicity of cholesterol oxidation in atherogenesis (rabbits)
R01HL-21246-02 Roles of cholesterol and its metabolic regulation (CHO cell mutants)
** R01HL-22532-01 Inhibitors of cholesterol biosynthesis (rats, mice, yeast)
** R01HL-22570-01 Interactions of sterols in biological systems (human)
** P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
** P01HL-22633-01 0003 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs)

STEROLS ESTERS
R01HL-10160-13 Origins of atherosclerosis (human)
R01HL-17818-05 Metabolism of cholesterol and cholesterol in man (also rats, monkeys)

STILBENES, CLOMIPHENE
R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)

STILBENES, DIETHYLSTILBESTROL
R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)

STILBESTROL
SEE STILBENES, DIETHYLSTILBESTROL

STILLBIRTH
SEE PREGNANCY LOSS, FETAL DEATH

STIMULANTS, GANGLIONIC
SEE NEUROPHARMACOLOGICAL AGENTS, GANGLIONIC STIMULATING AGENTS

STIMULANTS, GROWTH
SEE GROWTH FACTORS (INCL. ANABOLICS)

STIMULANTS, MUSCLE
SEE MUSCLE STIMULANTS

STIMULANTS, PSYCHIC
SEE PSYCHOPHARMACOLOGICAL AGENTS, ANTIDEPRESSANTS

STIMULATION, CHEMICAL
SEE DRUGS, PHARMACOLOGY, STIMULATION, CHEMICAL

STIMULUS-RESPONSE (GENERAL)
SEE ALSO ELECTROPOTENTIALS, EVOKED POTENTIALS
SEE ALSO ELECTROSTIMULUS
SEE ALSO EYE, VISUAL STIMULUS
SEE ALSO TEMPERATURE, HEAT, CALORIC STIMULATION
P01HL-12157-11 0056 Functions and mechanisms of cell membrane ion transport - Isotopic fluxes in synthetic strands of heart cells (chick embryo)
P01HL-12157-11 0057 Functions and mechanisms of cell membrane ion transport - Electrophysiological investigations of synthetic strands of heart muscles (rats)
R01HL-17689-06 Neurophysiologic studies of respiratory control (cats)
** R01HL-17729-04 Stimulus response coupling in platelets (human)

STOICHIOMETRY
SEE CHEMISTRY, STOICHIOMETRY

STOKES-ADAMS DISEASE
SEE HEART DISORDERS, ARRHYTHMIA, HEART BLOCK, STOKES-ADAMS SYNDROME

STOMACH ULCER
SEE GASTROINTESTINAL DISORDERS, PEPTIC ULCER

STOP FLOW TECHNIQUE
SEE PHYSICAL PROPERTIES, FLOWMETERS, STOP FLOW TECHNIQUE*

STORAGE DISORDERS
SEE METABOLIC DISORDERS INBORN, LYSOSOMAL DISORDERS

STRATUM CORNEUM (EPIDERMIS)
SEE SKIN (GENERAL)

STREPTOCOCCACEAE
SEE BACTERIA, STREPTOCOCCACEAE*

STREPTOCOCCAL INFECTIONS
SEE BACTERIAL DISEASES, STREPTOCOCCAL INFECTIONS

STREPTOCOCCUS
SEE BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS*

STREPTOCOCCUS AGALACTIAE
SEE BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS GROUP B*

STREPTOCOCCUS GROUP A
SEE BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS GROUP A*

STREPTOCOCCUS GROUP B
SEE BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS GROUP B*

STREPTOCOCCUS GROUP C
SEE BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS GROUP C*

STREPTOCOCCUS GROUP D
SEE BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS, ENTEROCOCCUS GROUP*

STREPTOCOCCUS HEMOLYTICUS (S.PYOGENES)
SEE BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS GROUP A*

STREPTOCOCCUS PNEUMONIAE
SEE BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS PNEUMONIAE*

STREPTOCOCCUS PYOGENES (S. HEMOLYTICUS)
SEE BACTERIA, STREPTOCOCCACEAE, STREPTOCOCCUS GROUP A*

STREPTOKINASE
SEE IMMUNOLOGY, ANTIGENS BACTERIAL, STREPTOKINASE

STRESS BIOLOGICAL, PHYSIOLOGICAL
SEE ENVIRONMENT, STRESS

STRESS MECHANICAL
SEE ENVIRONMENT, STRESS MECHANICAL

STRESS, MUSCLE
SEE MUSCLE FUNCTION, MUSCLE STRESS

STRESS, PRENATAL
SEE PREGNANCY, PRENATAL STRESS

STRESS PSYCHOLOGIC
SEE PSYCHOLOGIC STRESS

STRETCH RECEPTORS
SEE MUSCLE FUNCTION, MUSCLE STRETCH (RECEPTORS)
SEE RESPIRATORY SYSTEM, PULMONARY STRETCH RECEPTORS

STRETCH REFLEX
SEE MUSCLE FUNCTION, MUSCLE STRETCH REFLEX

STRIATED MUSCLE
SEE MUSCLES, STRIATED MUSCLE

STROKE
SEE CEREBROVASCULAR DISORDERS, STROKE

STROPHANTHIDIN
SEE CARDIAC GLYCOSIDES AGLYCONES, STROPHANTHIDIN

STROPHANTHIN G
SEE CARDIAC GLYCOSIDES, OUABAIN

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

STRUCTURAL CHEMISTRY
SEE CHEMICAL STRUCTURE

STRUCTURAL GENE
SEE GENETICS, GENES, OPERON, STRUCTURAL GENE

STRUCTURE OF CARBOHYDRATES
SEE CARBOHYDRATES STRUCTURE

STRUCTURE OF LIPIDS
SEE LIPIDS STRUCTURE

STRUCTURE OF NUCLEIC ACIDS
SEE NUCLEIC ACIDS STRUCTURE

STRUCTURE OF PROTEINS-PEPTIDES
SEE PROTEINS-PEPTIDES STRUCTURE

STUART FACTOR
SEE BLOOD COAGULATION, FACTOR X

STUDENTS, HEALTH OCCUPATIONS
SEE EDUCATION, HEALTH OCCUPATIONS

STYRENE POLYMERS
SEE PLASTICS, STYRENE POLYMERS

SU-4885
SEE PYRIDINES, METYRAPONE

SUBARACHNOID SPACE
SEE NERVOUS SYSTEM CENTRAL, MENINGES, SUBARACHNOID SPACE

SUBCORTICAL STRUCTURES
SEE BRAIN, SUBCORTICAL STRUCTURES

SUBMANDIBULAR GLAND
SEE ORAL-PHARYNGEAL, SALIVARY GLANDS, SUBMANDIBULAR

SUBMAXILLARY GLAND
SEE ORAL-PHARYNGEAL, SALIVARY GLANDS, SUBMANDIBULAR

SUBSTITUTION REACTIONS (CHEMISTRY)
SEE CHEMICAL REACTIONS, SUBSTITUTION

SUBSTITUTION TRANSFUSION
SEE BLOOD TRANSFUSION, EXCHANGE

SUCCESS-FAILURE
SEE PSYCHOLOGY, PERFORMANCE, SUCCESS-FAILURE

SUCCINATE:(ACCEPTOR) OXIDOREDUCTASE
SEE OXIDOREDUCTASES, SUCCINATE:(ACCEPTOR) OXIDOREDUCTASE

SUCCINIC ACID
SEE DICARBOXYLIC ACIDS, SUCCINIC ACID

SUCROSE
SEE DISACCHARIDES, SUCROSE

SUDDEN DEATH, HEART DISORDERS
SEE HEART DISORDERS, SUDDEN DEATH

SUDDEN INFANT DEATH SYNDROME
SEE CHILDREN, INFANT AND CHILD MORTALITY, SUDDEN INFANT DEATH SYNDROME

SUFFOCATION, ACCIDENTAL
SEE INJURIES, ACCIDENTS, SUFFOCATION

SUGAR ACIDS, HEXURONIC ACIDS, GLUCURONIC ACID
R01HL-21763-09 Heparin and heparan sulfate--Structure and activity (beef, hog)

SUGAR ACIDS, HEXURONIC ACIDS, L-IDURONIC ACID
R01HL-21763-09 Heparin and heparan sulfate--Structure and activity (beef, hog)

SUGAR ACIDS, SIALIC ACIDS
P01HL-09011-15 0005 A research and resource program in blood - Characterization of hepatitis-B antigen and the cause of serum hepatitis (human)
P01HL-11351-12 0004 Cellular and molecular mechanisms of myocardial function - Molecular mechanisms of contractile function and differentiation (animals)
P01HL-11351-12 0009 Cellular and molecular mechanisms of myocardial function - Myocardial membrane surface coat (rats, rabbits)
R01HL-14692-06 Alpha 1 antitrypsin deficiency and pulmonary disease (human)
R01HL-14820-07 Factors affecting physiology of biological membranes (human)
R01HL-15125-07 Molecular pathology of genetic disorders in man
R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
P50HL-19190-02 0005 Pulmonary SCOR--Pathophysiology, management of IRDS - Glycoproteins in mucous secretions (human, cattle)
R01HL-20092-02 Structural and biological properties of fibrinogen (human, rabbits)

SUGAR ACIDS, URONIC ACIDS
SEE ALSO SUGAR ACIDS, HEXURONIC ACIDS, GLUCURONIC ACID
R01HL-18593-03 Characterization of heart valve collagen (human, pig)

SUGAR ALCOHOLS, HEXITOLS, INOSITOL
SEE ALSO PHOSPHOLIPIDS, PHOSPHOGLYCERIDES, PHOSPHOINOSITIDES
R01HL-05791-18 Structure and function in hemoglobins (human)
** R01HL-12399-13 Specific fatty acids and cholesterol metabolism (gerbils, rats)

SUGAR ALCOHOLS, HEXITOLS, INOSITOL PHOSPHATES
R01HL-05791-18 Structure and function in hemoglobins (human)
R01HL-06950-17 Red cell metabolism (human, vertebrates)
P60HL-15999-05 0021 Miami comprehensive sickle cell center - Diphosphonates--Erythrocyte calcium loading, maturation (human, chick embryo)
** R01HL-18082-03 Erythrocyte phosphates and vertebrate gas transport (amphibians, reptiles)

SUGAR ALCOHOLS, HEXITOLS, ISOSORBIDE DINITRATE
R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)

SUGAR ALCOHOLS, HEXITOLS, MANNITOL
R01HL-05875-18 Pathologic metabolic and physiologic studies of heart (human, dogs, cats)
P01HL-06285-18 0143 Cardiovascular-respiratory physiology and biochemistry - Myocardial ischemia (human, dogs, lambs)
M P01HL-06664-17 Cardiopulmonary function in remediable vascular disease
** P01HL-06664-17 0010 Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
** P01HL-06664-17 0034 Cardiopulmonary function in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
** P01HL-06664-17 0036 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
R01HL-12530-10 Emphysema--Respiratory function in disease (human, dogs, rats)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
R01HL-14706-07 Fetal hearts in organ culture (mice)
R01HL-14914-06 Autoregulation of glomerular filtration rate (rats)
** R01HL-15522-06 Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats)
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-17458-04 Renal control of sodium excretion (rats)
P50HL-17669-04 0006 Ischemic heart disease center (SCOR) - Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs)
R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
R01HL-18204-03 Regional blood flow in viral myocarditis (turkeys)
R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
R01HL-20080-02 Surgically induced myocardial edema (dogs)
R01HL-20283-02 Maintenance of cellular integrity in ischemic hearts (cats)
R01HL-20352-02 Defenses of lung cells against oxygen toxicity (human, animals)
** R01HL-22172-01 Hypotension, renal ischemia and effect of mannitol (dogs, rats)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)

SUGAR NUCLEOTIDES
R23HL-22818-01 Biosynthesis of human respiratory mucous glycoprotein (also dog)

SUGAR SEQUENCE
SEE CARBOHYDRATES STRUCTURE, SUGAR SEQUENCE

SUGAR TRANSPORT
SEE CARBOHYDRATES TRANSPORT (GENERAL)

SUGGESTION
SEE PSYCHOLOGY, SUGGESTION

SULFANILAMIDES, FURSEMIDE
R01HL-02493-22 Kidney function in experimental heart failure (dogs, rats)
P01HL-11678-11 0065 Cardiovascular dynamics and their control - Body fluid volumes in the genesis of hypertension (dogs)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
** P01HL-14388-07 0225 Regulation of the circulation in pathological states - Release of renal prostaglandins by saluretic-diuretic agents (dogs)
P50HL-18323-04 0043 SCOR hypertension center - Pharmacology--Renin-aldosterone mechanisms in essential hypertension (human)
R01HL-22390-01 Effect of chloride on renin (rats, dogs)
** R23HL-22882-01 Modulation by disease of effect of furosemide in man
** R01HL-22911-01 Mechanism of clearance of lung edema fluid (dogs)

SULFANILAMIDES, SALICYLAZOSULFAPYRIDINE
R01HL-21996-01 Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs)

SULFATES
SEE ALSO CARBOHYDRATES, SULFOSUGARS
SEE ALSO STEROIDS SULFATES
** R01HL-09906-13 0024 Membrane transport processes in red blood cells - Inhibition of sulfate transport in human RBCs by isothiocyanic acid esters
R01HL-17995-04 Cellular synthesis and release of mucopolysaccharides (rabbits)
R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)

SULFATION FACTOR
SEE GROWTH HORMONES VERTEBRATE, SOMATOMEDIN (SULFATION FACTOR)(THYMIDINE FACTOR)

SULFHYDRYLS
SEE ALSO THIOLS
R01HL-05883-18 0001 Reflex control of resistance and capacitance vessels - Naturally occurring vasoactive substances and the vascular neuroeffectors (dog)
R01HL-09544-12 Biochemistry of contractile proteins (animals)
P01HL-11310-12 0106 Mechanisms of cardiovascular disease - Biochemical characterization of the collagens in vascular tissue (cattle)
P01HL-12157-11 0051 Functions and mechanisms of cell membrane ion transport - Electron transport in the red cell membrane (human, guinea pigs)
R01HL-12994-09 The Rh complex of red cells (human)
R01HL-14680-07 Specific enrichment of myoglobins for carbon 13 NMR (catacea)
R01HL-15498-06 Effects of physical training on heart (rats)
P01HL-15596-05 0012 Coagulation, fibrinolysis, hemostasis and hepatitis - Platelet function--Phorbol ester and zymosan-induced release activity
R01HL-15692-07 Force and speed in skeletal and cardiac muscle
R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)
P01HL-16833-04 0001 Hemoglobin and red cell system in hemoglobinopathies - Motility, association and ligand binding in hemoglobin--Hydrogen exchange
** P01HL-16833-04 0017 Hemoglobin and red cell system in hemoglobinopathies - Sulfhydryl group blockade antisickling effect (human)
R01HL-17930-03 Platelet membrane function--Assessment and application (animals)
R01HL-18185-04 Cardiac glycosides and diuretics--Role of NaO pump (dogs)
R01HL-18304-03 FT-infrared spectroscopy of heart muscle energetics (cattle)
R01HL-19323-03 Studies of platelet microtubule protein
P01HL-20984-02 0002 Cellular mechanisms in cardiac hypertrophy - Thermodynamic, fluorescence, chemical modification of hypertrophied heart myosin
P01HL-21016-02 0011 Sickle cell anemia and other hemoglobinopathies - Metabolic effects of anti-sickling agents (hamsters)
R01HL-22461-01 Cardiac tropomyosin and tropomyosin-action interactions (rabbit)
R01HL-22780-01 Factors modifying the reaction properties of HgS (human)
R01HL-22845-01 Response of cardiac myosin to hypertrophic stress (rabbits)
R01HL-22924-01 The airway mucosal barrier (guinea pigs)
R01HL-23994-01 Biochemical properties of human cardiac myosin
** R01HL-24021-02 Erythocyte membrane sulfhydrls and Rh activity (human)

SULFHYDRYLS INHIBITORS
R01HL-13029-09 Metabolic regulation of sugar transport (pigeons, rats)
P01HL-16251-06 0003 Membrane-bound enzymes in heart and other tissues - Regulation of cardiac succinate dehydrogenase (yeasts, mammals)

SULFIDES, DISULFIDES
SEE ALSO AMINO SULFIDES, CYSTAMINE
SEE ALSO CHEMICAL BONDS, DISULFIDE BONDS

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-18576-03 0002 Thrombosis research program project Molecular basis of fibrin formation (human, cattle, lamprey)
R01HL-19323-03 Studies of platelet microtubule protein
R01HL-20184-02 Desensitization of tracheal muscle to isoproterenol (rats, rabbits)

SULFINES
SEE SULFONIUM COMPOUNDS

SULFINPYRAZONE
SEE PYRAZOLIDINEDIONES, SULFINPYRAZONE

SULFITES, BISULFITES
R01HL-18554-03 Taurine metabolism in mammalian heart (rodents, cattle, swine)

SULFOBROMPHTHALEIN
SEE BENZOFURANONES, PHTHALIDES, BROMSULPHTHALEIN

SULFOMUCOPOLYSACCHARIDES
SEE POLYSACCHARIDES, GLYCOSAMINOGLYCANS, SULFOMUCOPOLYSACCHARIDES

SULFONAMIDES
R01HL-17963-04 Human erythrocyte carbonic anhydrase

SULFONAMIDES, ACETAZOLAMIDE
R01HL-00340-29 Electrolyte disturbance in cardio-renal disease (human, dogs, rats)
R01HL-00759-29 Regulation of electrolyte and acid base equilibrium (dogs)
R01HL-14102-07 Human physiology at 5360 meters--Mountain environment
P01HL-14985-07 0002 Adaptation to hypoxia - Oxygen transport in man at high altitude
P01HL-14985-07 0009 Adaptation to hypoxia - Influence of chemosensitivity on control of breathing during sleep (human, dogs)
P01HL-14985-07 0014 Adaptation to hypoxia - High altitude pulmonary edema (human, rats, dogs)
P01HL-19737-02 0011 Cellular and molecular aspects of respiratory physiology - Chemical and metabolic factors on peripheral chemoreceptor activity (cats)
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase

SULFONAMIDES, CHLOROTHIAZIDE
P01HL-06835-17 0049 Cardiovascular disease - Selective hypoaldosteronism (human)
R01HL-10711-12 Cooperative study of treatment of hypertension (human)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)
R01HL-15047-06 Digital computer analysis of the electrocardiogram (human)
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
P50HL-19362-02 0010 A/S SCOR--Atherosclerosis in nonhuman primates - Antihypertensive therapy--Atherogenesis in experimental hypertension (baboon)
R01HL-20455-03 Role of systemic hypertension on diabetic retinopathy (human)
R01HL-22032-01 Cardiovascular events in hypertensives (human)
R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)

SULFONAMIDES, PHENYLSULFONAMIDES, CHLORTHALIDONE
P50HL-18323-04 0043 SCOR hypertension center - Pharmacology--Renin-aldosterone mechanisms in essential hypertension (human)

SULFONAMIDES, PROBENECID
R23HL-22882-01 Modulation by disease of effect of furosemide in man

SULFONATES
SEE ALSO AMINOSULFONIC ACIDS
SEE ALSO PHENYLALKYLAMINES, BENZYLAMINES, BRETYLIUM TOSYLATE
R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
R01HL-18554-03 Taurine metabolism in mammalian heart (rodents, cattle, swine)

SULFONATES, TRIMETHAPHAN CAMSYLATE
P01HL-11310-12 0058 Mechanisms of cardiovascular disease - Dynamic response to vasodilating agents postoperatively (human)
P01HL-11310-12 0065 Mechanisms of cardiovascular disease - Algorithms for arterial pressure by automatic vasoactive agents control (human)
R01HL-23602-01 Physiology of renin, aldosterone and prostaglandin (human, rats, dogs)

SULFONES, DAPSONE
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)

SULFONIUM COMPOUNDS
R01HL-15104-07 A mechanism for oxidative phosphorylation

4,4'-SULFONYLDIANILINE
SEE SULFONES, DAPSONE

SULFONYLUREA, TOLBUTAMIDE
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
R01HL-15698-12 Factors affecting the action of anticoagulants (rats, human)

SULFOPOLYSACCHARIDES
SEE POLYSACCHARIDES, SULFOPOLYSACCHARIDES

SULFOSUGARS
SEE CARBOHYDRATES, SULFOSUGARS

SULFOXIDES, DIMETHYL SULFOXIDE
P01HL-03174-23 0011 Mechanisms of acute vascular reaction to injury - Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals)
P01HL-06312-17 0033 Surgical cardiology - Studies in cryopreservations (rats)
R01HL-12879-09 0010 Pulmonary transport and metabolism in vivo - Lung morphometry in control and edematous lungs (dogs)
P01HL-16117-05 0005 Ion movements and membranes in cardiovascular control - Properties of isolated cell membranes (rabbits, cats)
R01HL-20219-02 Cryopreservation of the isolated heart (rats)

SULFUR (COMPOUNDS) --SEE ALSO THI...
R01HL-15640-06 Thermodynamic studies on model oxygen carriers
P01HL-16251-06 0008 Membrane-bound enzymes in heart and other tissues - Iron-sulfur centers and phospholipids modulation of succinate dehydrogenase

SULFUR AMINO ACIDS, CYSTEINE
SEE ALSO PEPTIDES, GLUTATHIONE
P01HL-11310-12 0106 Mechanisms of cardiovascular disease - Biochemical characterization of the collagens in vascular tissue (cattle)
R01HL-12972-09 Glutathione deficiency in red cells (sheep, dogs)
R01HL-16318-21 Biochemistry and pharmacology of Na-K transport

SULFUR AMINO ACIDS, ETHIONINE
P01HL-09011-15 0021 A research and resource program in blood - Regulation of transfer RNA methylating enzymes (rats, E coli)

SULFUR AMINO ACIDS, HOMOCYSTINE
R01HL-05062-18 Lipid metabolism in cultured cells (human, rats, rabbits)
R01HL-22623-01 Polyamines cellular mediators of atherogenesis (human)

SULFUR AMINO ACIDS, METHIONINE
SEE ALSO NUCLEOSIDYL AMINO ACIDS, S-ADENOSYLMETHIONINE
P01HL-18577-03 0004 Lipoproteins--Cell surface interactions - Analysis and chemical modification of proteins in lipid transport (human, dogs)

SULFUR AMINO ACIDS, METHIONINE, SELENOMETHIONINE
R01HL-12085-10 Lipoprotein-carbohydrate metabolism (human, rats)

SULFUR AMINO ACIDS, PENICILLAMINE
** P01HL-13262-07 0012 Arterial wall in atherosclerosis - Characterization of connective tissue components (animals)
P50HL-15061-07 0004 Response of lung to injury - Biochemical abnormalities in connective tissues (rats)
R01HL-16437-05 Drug treatment of atherosclerosis (rabbits, monkeys)

SULFUR DIOXIDE
SEE SULFUR OXIDES

SULFUR OXIDES
R01HL-15980-06 Reactions of hemeproteins and oxygen (cattle)
P50HL-19170-02 0003 Harvard pulmonary SCOR--Chronic diseases of the airways - Mechanisms of bronchial reactivity to acute and chronic airway challenge (dog)
R01HL-19746-03 Proliferation and differentiation of alveolar macrophages (mice, hamsters)

SUN ORIENTATION
SEE ENVIRONMENT, ORIENTATION

SUNSTROKE
SEE INJURIES, TEMPERATURE DEPENDENT, HEAT INDUCED

SUPEROXIDE DISMUTASE
SEE METALLOPROTEINS, CYTOCUPREINS

SUPPLIED TISSUES
SEE TISSUE RESOURCES, REGISTRIES

SUPPORTING FRAMES FOR TISSUE GROWTH
SEE BIOMATERIALS, TISSUE SUPPORTING FRAMES

SUPPOSITORIES
SEE DOSAGE FORMS

SUPPRESSOR T LYMPHOCYTES
SEE BLOOD CELLS, T LYMPHOCYTES, SUPPRESSOR

SURFACE ACTIVE AGENTS
SEE PHYSICAL PROPERTIES, SURFACTANTS

SURFACE ACTIVITY, CELLULAR
SEE MEMBRANE SURFACE (BIOLOGICAL) ACTIVITY (GENERAL)

SURFACE ANTIGENS
SEE IMMUNOLOGY, ANTIGENS, SURFACE ANTIGENS (GENERAL)

SURFACE ENZYMES
SEE ENZYMES, EXOENZYMES

SURFACE PROPERTIES (GENERAL)
SEE PHYSICAL PROPERTIES, SURFACE PROPERTIES (GENERAL)

SURFACTANT, PULMONARY
SEE RESPIRATORY SYSTEM, PULMONARY SURFACTANT

SURFACTANTS
SEE PHYSICAL PROPERTIES, SURFACTANTS

SURGERY
SEE ALSO ADRENALECTOMY
SEE ALSO BLOOD AND RE SYSTEM, SPLENECTOMY
SEE ALSO BLOOD AND RE SYSTEM, THYMECTOMY
SEE ALSO CARDIOVASCULAR SURGERY
SEE ALSO CEREBROVASCULAR SURGERY
SEE ALSO EYE SURGERY
SEE ALSO GASTROINTESTINAL SURGERY
SEE ALSO HEART SURGERY
SEE ALSO KIDNEY SURGERY
SEE ALSO NEOPLASMS SURGERY
SEE ALSO NEUROSURGERY
SEE ALSO ORAL SURGERY
SEE ALSO PARATHYROIDECTOMY
SEE ALSO PITUITARY REMOVAL
SEE ALSO PREGNANCY, EMBRYO-FETUS SURGERY
SEE ALSO PROSTHESIS
SEE ALSO RESPIRATORY SYSTEM SURGERY
SEE ALSO SKELETAL DISORDERS, ORTHOPEDICS
SEE ALSO SKELETAL DISORDERS, ORTHOPEDICS, HIP SURGERY
SEE ALSO STEREOTAXIC TECHNIQUE
SEE ALSO TEMPERATURE (BODY), HYPOTHERMIA INDUCED, CRYOSURGERY
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, TRANSPLANTATION
SEE ALSO URINARY TRACT SURGERY
** R01HL-19255-03 Evaluation of diagnostic clinical hemorrheology (human)

SURGERY, POSTOPERATIVE
SEE ALSO DISEASES, COMPLICATIONS, POSTOPERATIVE
P01HL-06312-17 0013 Surgical cardiology - Aortocoronary vein bypass grafting (human)
P01HL-06312-17 0015 Surgical cardiology - Internal mammary artery versus saphenous vein for coronary artery bypass (human)
P01HL-06312-17 0016 Surgical cardiology - Effect of hydralazine on infarct size following coronary occlusion (human)
P01HL-06312-17 0053 Surgical cardiology - Enzyme pattern following cardiac surgery (human)
P01HL-06835-17 0049 Cardiovascular disease - Selective hypoaldosteronism (human)
P01HL-11310-12 0054 Mechanisms of cardiovascular disease - Mathematical model of ventricular pressure-volume (human, dogs)
P01HL-11310-12 0055 Mechanisms of cardiovascular disease - Ventricular pressure-volume after intracardiac surgery (human)
P01HL-11310-12 0056 Mechanisms of cardiovascular disease - Cardiac output response to blood pressure - reduction in infants (human)
P01HL-11310-12 0057 Mechanisms of cardiovascular disease - Blood pressure reduction after heart surgery in adults (human)
** P01HL-11310-12 0058 Mechanisms of cardiovascular disease - Dynamic response to vasodilating agents postoperatively (human)
P01HL-11310-12 0059 Mechanisms of cardiovascular disease - Contractility--Acute response to digoxin after heart surgery (children)
** P01HL-11310-12 0062 Mechanisms of cardiovascular disease - Myocardial depressant factor in postoperative cardiac dysfunction (human, dogs)
** P01HL-11310-12 0063 Mechanisms of cardiovascular disease - Myocardial function, metabolism and cellular integrity after heart surgery (dogs)
P01HL-11310-12 0065 Mechanisms of cardiovascular disease - Algorithms for arterial pressure by automatic vasoactive agents control (human)
P01HL-11310-12 0066 Mechanisms of cardiovascular disease - Measurement of cardiac output by thermodilution (children)
P01HL-11310-12 0067 Mechanisms of cardiovascular disease - Cardiac performance with measured homodynamic variables (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-11310-12 0068 Mechanisms of cardiovascular disease - Pharmacological intervention and myocarcial oxygen consuption (human, dogs)
P01HL-11310-12 0069 Mechanisms of cardiovascular disease - Factors affecting mortality and morbidity after heart surgery (human)
P01HL-11310-12 0071 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial flutter (human)
P01HL-11310-12 0072 Mechanisms of cardiovascular disease - Electrophysiological studies of atrial tachycardia with block (human)
P01HL-11310-12 0073 Mechanisms of cardiovascular disease - Electrophysiological study of atrial fibrillation (human)
P01HL-11310-12 0074 Mechanisms of cardiovascular disease - Electrophysiological studies of paraxysmal atrial tachycardia (human)
P01HL-11310-12 0077 Mechanisms of cardiovascular disease - Abnormalities of rhythm and conduction following heart surgery (human)
P01HL-11310-12 0082 Mechanisms of cardiovascular disease - Myocardial function in adult congenital heart disease (human)
** P01HL-12373-10 0020 Cardiopulmonary physiology and pathophysiology - Hospitalization and patient care
P01HL-13108-09 0009 Clinical heart transplantation - B cell alloantigens in cardiac allograft compatibility (human)
P01HL-13108-09 0011 Clinical heart transplantation - Humoral and cellular kinetics of allograft rejection (human)
P01HL-13737-07 0029 Assisted circulation - Chronic left ventricular failure (human)
P01HL-15194-07 0017 Pathophysiology of cardiopulmonary dysfunction - Coronary circulation and effects of arteriographic lesions on flow (human)
R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)
R01HL-16461-05 Late results of valve replacement--Computer analysis (human)
P60HL-17265-04 0007 Community blood resource center support - Research--Massive transfusion and trauma (human)
P60HL-17269-04 0026 National heart and blood vessel research and demonstration center - Dynamics of ischemic heart disease (human, dog)
** P60HL-17269-04 0029 National heart and blood vessel research and demonstration center - Clinical application of circulatory assistance (human)
P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
P50HL-17667-04 0022 Study of ischemic heart disease - Preventing myocardial injury in surgery using cardiopulmonary bypass (human, rat)
R01HL-17974-03 External pneumatic compression in deep venous thrombosis (human)
M R01HL-17993-04 Ventricular dynamics from surgically inserted markers
R01HL-17993-04 0001 Ventricular dynamics from surgically inserted markers - Effects of aortocoronary bypass graft surgery on ventricular function (human)
R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
R01HL-17993-04 0004 Ventricular dynamics from surgically inserted markers - Exercise training following coronary artery bypass graft surgery (human)
R01HL-17993-04 0005 Ventricular dynamics from surgically inserted markers - Cardiac dimensions and dynamic after mitral, aortic valve surgery (human)
R01HL-17993-04 0006 Ventricular dynamics from surgically inserted markers - Atrial pacing in transplant patients
R01HL-17993-04 0007 Ventricular dynamics from surgically inserted markers - Digitalis after coronary artery surgery (human)
R01HL-17993-04 0008 Ventricular dynamics from surgically insarted markers - Exercise after coronary bypass (human)
R01HL-17993-04 0010 Ventricular dynamics from surgically inserted markers - Postoperetiva cardiovascular visualization (human)
R01HL-18923-02 Steroid-induced hyparlipidemia and hypertension (human, rats)
R01HL-19451-03 0003 Functional charactaristics of the left heart - Left ventricular segmantal contraction (human, dogs)
R01HL-20356-02 Development and evaluetion of an artificial heart (calvas)
R01HL-20803-02 Intra-aortic beiloon pumping (dogs, lembs, cats)
R01HL-20895-03 0001 Cinaangiographic studies of cerdiovascular system - Videodansitomatry end valvular regurgitation (human, dogs)
R01HL-20898-02 Uitrasonic evaluation in diract artariel surgary (modals, cattla, human)
R01HL-21210-01 Acuta ranal failura following cardiec surgary (human)
R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
R01HL-21548-01 Pathogenesis of pulmonary thromboembolic disease (human, mammals)
R01HL-21632-02 Development of a transcutaneous power transfer system (cattle)
R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
R01HL-22244-01 Cardiopulmonary bypass and the vascular endothelium (dogs)
R01HL-22321-01 Cardiac output from the pneumocardiogram (dogs)
R01HL-22661-01 Chronic total cardiopulhonary mechanical substitution (sheep)
R01HL-22894-01 Two dimensional ultrasound and cardiac surgery (human, dogs)
N01HV-53006-06 Evaluation of model VII left ventricular assist device (human)

SURGERY, PREOPERATIVE

R01HL-03181-21 0029 Hemodynamics as applied to surgical problems - Indocyanine green clearance for estimation of hepatic blood flow (human)
P01HL-06835-17 0048 Cardiovascular disease - Aldosterone producing adenoma prediction of curability (human)
P01HL-06835-17 0049 Cardiovascular disease - Selective hypoaldosteronism (human)
** R01HL-08696-15 0012 Orthotopic heart transplantation - Transplantation immunology--Modulation of donor antigenicity (dogs)
R01HL-08696-15 0013 Orthotopic heart transplantation - Transplantation immunology--Cardiac heterotransplantation (rabbits, dogs)
** P01HL-13108-09 0002 Clinical heart transplantation - Preoperative immunologic studies of cardiac recipients
R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
** P60HL-17292-04 0029 Vermont Lung Center - Computer-assisted pre-operative evaluation (human)
R01HL-20895-03 0001 Cineangiographic studies of cardiovascular system - Videodensitometry and valvular regurgitation (human, dogs)
R01HL-20895-03 0003 Cineangiographic studies of cardiovascular system - Densitometry in coronary stenosis (human)
R01HL-20895-03 0005 Cineangiographic studies of cardiovascular system - Computerized axial tomography--Cardiac wall motion and infarction (dogs)
R01HL-20898-02 Ultrasonic evaluation in direct arterial surgery (models, cattle, human)
R01HL-21278-01 Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms)
R01HL-21533-02 Platelet inhibitor drug in coronary surgery (human)
R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
R01HL-22894-01 Two dimensional ultrasound and cardiac surgery (human, dogs)
N01HR-32902-07 Pilot study to standardize the measurement of closing volume (human)

SURGERY, THORACIC

SEE ALSO BLOOD AND RE SYSTEM, THYMECTOMY
SEE ALSO HEART SURGERY
SEE ALSO RESPIRATORY SYSTEM SURGERY
R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
R01HL-22894-01 Two dimensional ultrasound and cardiac surgery (human, dogs)

SURGERY IN UTERO

SEE PREGNANCY, EMBRYO-FETUS SURGERY

SURGERY STUDY SECTION

** R01HL-02363-20 Kinetics of water and electrolytes in shock (dogs, rats)
** R01HL-03180-21 Relation of lymphatics to cardiopulmonary function (dogs)
M R01HL-03181-21 Hemodynamics as applied to surgical problems
** R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)
M R01HL-08696-15 Orthotopic heart transplantation
** R01HL-09315-15 Coronary insufficiency and myocardial revascularization (human, dogs)
** R01HL-09609-11 Lung volume and breathing machanics during anesthasia (human)
** R01HL-11802-10 Cardiovascular surgical research (dogs, sheep, swine, cats, monkays)
M R01HL-11901-12 Effects of metabolic surgery on the hyperlipidemias
** R01HL-11919-08 Pulmonary circuletion in surgical heart disaasa (human, dogs)
** R01HL-11945-10 Synthesis of artificial lung and kidnay systems (sheap, mice, swina)
** R01HL-12322-10 Extrinsic factors influancing myocardial parformanca (dogs, swina)
** R01HL-12677-10 Surgical physiologic studias of isoletad kidnays (dogs, rets)
** R01HL-12777-09 Mechanisms in cardiac parformanca (dogs, human)
** R01HL-12839-09 Flow, transport and mambrana phanomana in blood (human)
** R01HL-13172-10 Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys)
** R01HL-13193-09 Pathophysiology of post-traumatic and shock states (rodents, dogs)
** R01HL-13257-09 Inhalation anesthesia on myocardial metabolism (dogs, swine, human)
** R01HL-13341-06 Lymph--An indication of splanchnic tissue respiration (dogs, human, rats)
** R01HL-13426-09 Left ventricular bypass for myocardial infarction (cattle, human)
** R01HL-13466-08 Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats)
** R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
** R01HL-13803-07 Advanced cardiac valvular and vascular prosthesis (dogs, baboons)
** R01HL-13920-07 Expanding the role of surgery of atrial dysrhythmias (dogs)
** R01HL-13987-04 Transplantation of the lung (dogs)
** R01HL-13988-07 Elimination of reoperative cardiac pacemaker surgery (dogs)
** R01HL-14126-17 Effect of function on grafts and implants of collagen (dogs, monkeys)
** R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
** R01HL-14571-05 Myocardial preservation and coronary reperfusion (baboons, dogs)
** R01HL-14644-05 Optimization diastolic augmentation and systolic sink (dogs)
** R01HL-14799-07 Cardiac heterotransplantation--Immunologic modification (mice, rat)
** R01HL-15247-05 Extending the life of implanted pacemakers (dogs, human)
** R01HL-15448-06 Surgical and metabolic aspacts of venous grafts, (dogs, monkeys, rabbits)
** R01HL-15520-06 Total blood replacement by fluorocarbons and polyols (rats)
** R01HL-15593-05 Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits)
** R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
** R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
** R01HL-15799-04 Effect of anesthetics on myocardial function (cats)
** R01HL-15813-05 Cardiac anoxia--Protective effect of carbohydrate (dogs)
** R01HL-16119-05 Spleen and marrow allografts in hereditary anemia (mice)
** R01HL-16154-05 Membrane lung perfusion for acute respiratory failure (sheep, baboons)
** R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)
M R01HL-16292-05 Surgery and non-obstructive coronary insufficiency
** R01HL-16329-04 Cardiac surgical effect on heart function in infants (human)
** R01HL-16582-05 Artificial lungs (dogs)
** R01HL-16711-05 RBC and endothelial membrane material characteristics (human)
** R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
** R01HL-16935-05 Tissue organization and turnover in the semilunar valve (dogs, rats)
** R01HL-16938-05 Effect of physical forces on blood (dogs, human)
** R01HL-17091-05 Anesthetics and microvascular response to hemorrhage (rats)
** R01HL-17332-04 Use of the gut for therapy of coronary artery disease (mammals)
** R01HL-17358-04 Ventilatory adjustments for optimal oxygenation (dogs, rats)
** R01HL-17369-04 Arterial bypass surgery--Structure end metabolism (monkeys)
** R01HL-17437-03 'Perfusion lung'--Role of traumatized leukocytes (dogs, human)
** R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, human, swina)
** R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
** R01HL-17759-03 Studies of myocardial raactiva hyperemia (dogs, human)
** R01HL-17821-03 Cavitation phenomena near prosthatic devicas
** R01HL-17844-04 Artificial blood substitutes--02-binding iron chalatas (human, mammals)
** R01HL-17859-04 Computational mathods in cardiac fluid dynamics
** R01HL-17944-03 Studies in lung presarvation (dogs)
** R01HL-17969-04 Function and structura of samilunar valvas (dogs)
** R01HL-17974-03 External pnaumatic compression in deep venous thrombosis (human)
M R01HL-17993-04 Ventricular dynamics from surgically insartad markars
** R01HL-18002-03 Circulatory shock, trauma and RE-systam function (rats)
** R01HL-18040-04 Wavaform dapandancy in dafibrillation (calvas)
** R01HL-18084-03 Artificial haart and ralatad problams (calvas)

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**Oriented significantly to above subject.

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See Appendix for investigator's name and grant number.

** R01HL-18096-04 Vasoactive agents in splanchnic viscere (primates, dogs)
** R01HL-18143-03 Surgery and pulmonary tissue alteretions (dogs, rats, human)
** R01HL-18288-04 Intraoperativa protection of the myocardium (dogs, rats)
** R01HL-18321-03 Fluid shear or megnetic alignment of blood components (human)
** R01HL-18460-01 Effects of prolonged hypoperfusion on the myocardium (rebbits)
** R01HL-18519-03 Albumin, andothelium end hamocompetibility (human, dog, cettle, rabbit)
** R01HL-18639-03 Human anatomy for cardiac prostheses (human)
** R01HL-18644-03 Prosthesis for eortocoronary bypess (dogs, baboons)
** R01HL-18731-02 RES stimuleting materials in experimental shock (dogs)
** R01HL-18738-02 Prevention of postoperative venous thrombi (humen, cattle)
** R01HL-18762-03 Post-traumatic pulmonary insufficiency (dogs)
** R01HL-18764-03 Biosorbable thromboresistant surfaces (dogs, rats, swine, human)
** R01HL-18815-03 Surgical vascular disorders (human, dogs)
** R01HL-18936-02 Haart preservation and transplantation studies (rat)
** R01HL-18948-03 Pulseless flow and circulatory assistance (dogs, calves)
** R01HL-18995-04 Cardiovascular determinants of catecholamine releasa (dogs)
** R01HL-18997-02 Ischemic therapy in experimental hypersplenism (rats, dogs)
** R01HL-19030-03 Tissue protection during circulatory interruption (dogs)
** R01HL-19038-02 Plethysmographic evaluation of carotid blood flow (human, rabbits, dogs)
** R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
** R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
** R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
** R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
** R01HL-19350-02 Prevention of thrombosis by applied electric fields (sheep)
** R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
** R01HL-19419-03 Cellular interactions with foreign materials (mammals)
** R01HL-19673-03 Surgical aspects of shock and hypoxia (dogs, monkeys, rats)
** R01HL-19818-02 Endocarditis on prosthetic heart valves (rabbits, human)
** R01HL-19993-02 Optical detection of platelet aggregates (human, baboons)
** R01HL-20037-02 Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle)
** R01HL-20073-02 Blood compatible materials by fluid perfusion (human, dogs)
M R01HL-20079-02 Thromboresistant material
** R01HL-20080-02 Surgically induced myocardial edema (dogs)
** R01HL-20086-02 Circulatory control of splenic function (rats)
** R01HL-20143-02 Hypothermic circulatory arrest--Cerebral vascular change (dogs)
** R01HL-20163-02 Competitive coronary flow in native and graft vessels (dog)
** R01HL-20170-02 Pulmonary infection in splenectomized animals (mice)
** R01HL-20219-02 Cryopreservation of the isolated heart (rats)
** R01HL-20226-02 Cardiac bypass and coronary collateral physiology (dogs)
** R01HL-20251-02 A novel approach to nonthrombogenic polymer surfaces (sheep, cattle)
** R01HL-20313-02 Surface-induced thrombosis--Modification of albumin variants (human, goat)
** R01HL-20356-02 Oevelopment and evaluation of an artificial heart (calves)
** R01HL-20554-02 Memory-alloy-filters for venous emboli (dogs)
** R01HL-20629-02 Catheter ventricular defibrillation studies (dogs)
** R01HL-20632-02 An optimal fetal heart monitor (human)
** R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
** R01HL-20754-02 Anesthetic-induced myocardiel depression (rabbits)
** R01HL-20803-02 Intra-aortic balloon pumping (dogs, lambs, cets)
** R01HL-20829-02 Fluid mechanics of haart velva prosthasas (dogs, humen)
** R01HL-20835-02 Signal enelysis of turbulence study in blood
M R01HL-20895-03 Cineangiographic studias of cardiovascular system
** R01HL-20979-02 A novel pulsed Oopplar flowmater (dogs)
** R01HL-21001-01 Protain end thrambus daposition on vasculer grefts
** R01HL-21071-02 Mechenisms of hypertension in coarctation of the eorta (dag)
** R01HL-21076-02 Lung fluid, protein exchange efter hamorrhagic shock (sheep)
** R01HL-21188-02 Pulsatory water flux and endotheliel cell desquamation
** R01HL-21194-02 Oevelopment af antithrombogenic plastic biomaterials
** R01HL-21210-01 Acute renal failure following cardiac surgery (human)
** R01HL-21270-01 Correlation of artarial hemodynamics and morphology (human)
** R23HL-21271-02 Extracorporeel circulation and protein denaturation (human)
** R01HL-21293-02 Randomized study of coronary bypass surgery (human)
** R23HL-21347-02 Accessory pathways and supraventricular tachycardia
** R01HL-21533-02 Plateiet inhibitor drug in coronary surgery (human)
** R01HL-21572-01 Natural history of the postphlebitic syndrome
** R01HL-21632-02 Oevelopment of a transcutaneous power transfer system (cattle)
** R01HL-21674-01 Oevelopment of automatic implanted defibrillator (dogs, cattle)
** R01HL-21786-01 Long-term effects of myocardial protection (dogs, rats)
** R01HL-21796-01 Applied pulsatile hemodynamics in vascular surgery (dogs)
** R23HL-21805-01 Tissue cell interactions with vascular prostheses (human, rats, mice)
** R01HL-21859-01 Unsteady flow in arterial bifurcations (human)
** R01HL-21969-01 Prevention of myocardial hypoxia during by-pass (rats, mice, squirrels)
** R01HL-22005-01 Intermittent retroperfusion of ischemic myocardium (dogs)
** R01HL-22069-02 Experimental renal arterial hypertension (dogs)
** R01HL-22098-01 Is postoperative infarction due to reperfusion injury? (human, dogs)
** R01HL-22110-02 Healing complications in vascular grafting (dogs)
** R01HL-22152-02 Ventricular dysfunction and cardiac surgery (dogs)
** R01HL-22233-01 Characterization of bio-materials by elastic property
** R01HL-22244-01 Cardiopulmonary bypass and the vascular endothelium (dogs)
** R01HL-22274-01 Quantitating in series effects in cardiac arrhythmias (dogs)
** R01HL-22315-01 Intraoperative cardiac oxygen supply-demand (dogs, rabbits, rats)
** R01HL-22321-01 Cardiac output from the pneumocardiogram (dogs)
** R01HL-22326-01 Noninvasive measurement of cardiac output (dogs)
** R01HL-22327-01 Transport of arterial blood gases through skin (swine)
** R01HL-22329-01 Active prosthetic myocardium--Effects on LV function (dogs)
** R01HL-22338-01 Platelet adhesion and aggregation in a flow chamber (human)
** R23HL-22346-01 Hematological injury and pulmonary dysfunction (human, mammals)
** R01HL-22413-01 Enhanced detection of bubbles in Ooppler flow signals (human)
** R01HL-22417-01 Microprocessors in medical applications (dogs)
** R01HL-22445-01 Platelet inhibitors--Effect on coronary bypass grafts (dogs)
** R23HL-22448-01 Modulation of heart graft antigenicity by perfusion (rats)
** R01HL-22455-01 Platelet concentration in the marginal layer (dogs, human)
** R01HL-22517-01 Engineering development of an ultrasonic ventilometer (human)
** R01HL-22573-01 Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats)
** R01HL-22585-01 Plasma proteins adsorbed to artificial organs (human, rabbits)
** R01HL-22604-01 Non-invasive system for arteriosclerosis studies (human)
** R01HL-22627-01 An inhibitor of platelet adhesion to artificial organs (human)
** R01HL-22636-01 Newborn lung function during mechanical ventilation (human)
** R01HL-22661-01 Chronic total cardiopulhonary mechanical substitution (sheep)
** R01HL-22699-01 Oefibrillation alactroda studies (dogs, swina)
** R01HL-22741-01 Arteriovanous connactions in extremity revascularization (dogs)
** R01HL-22759-01 Regionel myocardial blood flow during hypotharmia (dogs)
** R01HL-22783-01 Hamodynamic induction of intimel fibromuscuier lesion
** R01HL-22784-01 Ouctus arteriosus closure--An artarial lesion model (rabbits)
** R23HL-22787-01 Cardiac valuma by biplane achocerdiography (human)
** R01HL-22801-01 Analysis of coronary artery bahavior (dogs)
** R01HL-22815-01 Regional myocerdiel function after revascularization (dogs)
** R01HL-22844-01 Phrenic nerva pacing--Noninvesive diaphragm enalysis (humen, dogs)
** R01HL-22852-01 Diagnostic techniques in venous thromboambolism (human)
** R01HL-22854-01 Nan-invasive blood pressure measurement (rats)
** R01HL-22888-01 Prosthetic valve endocarditis--Etiology end therapy (dogs)
** R01HL-22893-01 Evaluating arteriel disease by velocity wave analysis (dogs, human)
** R01HL-22894-01 Two dimensional ultresound and cardiac surgary (human, dogs)
** R01HL-23114-01 Control of platelet aggregetion in shock (dogs, rabbits)
** R01HL-23618-01 Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs)
** R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces

SURGICAL ADHESIVES
P01HL-13738-08 0005 Cardiac assist devices and artificial hearts - Oevelopment of new materials for artificial heart and assist devices (sheep, dog)
** R01HL-17930-03 Platelet membrane function--Assessment and application (animals)
N01HV-82919-00 Oevelopment of percutaneous energy transmission systems

SURGICAL SUTURES
R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)

SURGICAL WOUND INFECTION
SEE INJURIES, SURGICAL WOUNO INFECTION

SURGICAL WOUNDS
SEE INJURIES, SURGICAL WOUNOS

SURVEYS, HEALTH
SEE POPULATION SURVEYS, HEALTH SURVEYS

SURVEYS, POPULATION
SEE POPULATION SURVEYS

SUSPENSIONS (DOSAGE FORM)
SEE OOSAGE FORMS

SUSPENSIONS (PHYSICAL CHEMISTRY)
SEE PHYSICAL PROPERTIES, SUSPENSIONS

SUSTAINED RELEASE PREPARATIONS
SEE OOSAGE FORMS

SUTURES
SEE SURGICAL SUTURES

SV40 VIRUS
SEE VIRUSES, PAPOVAVIRUSES, SV40 VIRUS

SWALLOWING
SEE GASTROINTESTINAL FUNCTION, OEGLUTITION

SWEAT
SEE SKIN SECRETIONS, SWEAT

SWIMMING
SEE WATER ENVIRONMENT, OIVING ANO SWIMMING

SWINE, MINIATURE
SEE MAMMALS, ARTIOOACTYLA, SWINE, MINIATURE SWINE*

SYMPATHECTOMY
SEE NEUROSURGERY, SYMPATHECTOMY

SYMPATHETIC GANGLIA
SEE NERVOUS SYSTEM AUTONOMIC, SYMPATHETIC GANGLIA

SYMPATHETIC NERVOUS SYSTEM
SEE NERVOUS SYSTEM AUTONOMIC, SYMPATHETIC NERVOUS SYSTEM

SYMPATHOLYTIC AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, SYMPATHOLYTIC

SYMPATHOMIMETIC AGENTS
SEE NEUROPHARMACOLOGICAL AGENTS, SYMPATHOMIMETIC

SYMPOSIA
SEE INFORMATION OISSEMINATION, MEETINGS CONFERENCES SYMPOSIA

SYNAPSES
SEE NERVOUS SYSTEM, NERVE ENOINGS, SYNAPSES

SYNAPTIC RECEPTORS
SEE NEUROTRANSMITTERS RECEPTORS

SYNAPTIC VESICLES
SEE NERVOUS SYSTEM, NERVE ENOINGS, SYNAPTIC VESICLES

SYNAPTOSOMES
SEE NERVOUS SYSTEM, NERVE ENOINGS, SYNAPTOSOMES

(contd)

*Excludes routine methodology OR covers only general projects which precluda indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name end grant number.

SYNCHRONOUS CELL DIVISION
SEE CELL DIVISION, SYNCHRDNOUS CELL DIVISION

SYNCOPE
SEE NEUROLOGIC MANIFESTATIONS, SYNCOPE

SYNERGISM
SEE DRUGS AND PHYSICAL ANO/OR CHEMICAL AGENTS INTERACTIDN
SEE DRUGS INTERACTION
SEE PHYSICAL ANO/OR CHEMICAL AGENTS INTERACTION (BIDLDGICAL AND ECOLDGICAL)

SYNTHESIS (ORGANIC)
SEE CHEMICAL SYNTHESIS ANO PRDOUCTION

SYNTHESIS OF DRUGS
SEE DRUGS SYNTHESIS ANO PRDOUCTION

SYNTHETASES
SEE LIGASES

SYNTHETIC LETHALS
SEE GENETICS, GENES, GENE EXPRESSION, LETHALS

SYSTEMATIC BIOLOGY
SEE BIDLDGY, SYSTEMATIC

SYSTEMS ANALYSIS
SEE INFORMATION ANO CDMMUNICATIDN, SYSTEMS ANALYSIS

T-DIAPHORASE
SEE OXIODREDUCTASES, NAD(P)H DEHYDROGENASE (QUINONE)

TABLETS
SEE DDSAGE FDRMS

TACHYCARDIA
SEE HEART DISORDERS, ARRHYTHMIA, TACHYCARDIA

TACHYPHYLAXIS
SEE DRUGS TACHYPHYLAXIS

TADPOLES
SEE AGE (ANIMAL), IMMATURE, LARVA

TAMARINS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHROPOIDS, NON-HUMAN), NEW WORLD MONKEYS (PLATYRHINES)*

TAMPONADE, CARDIAC
SEE HEART DISORDERS, CARDIAC TAMPONADE

TANGIER DISEASE
SEE METABOLIC DISDRDERS INBORN, HYPOLIPDPRDTEINEMIAS FAMILIAL, TANGIER DISEASE

TANTALUM
SEE METALS, HEAVY METALS, TANTALUM

TARICHATOXIN
SEE TOXICOLOGY, ANIMAL POISDNS, TETRDODTDXIN

TASTE THRESHOLD
SEE SENSDRY-PERCEPTUAL PROCESSES, TASTE THRESHOLD

TAURINE
SEE AMINOSULFDNIC ACIDS, TAURINE

TAXONOMY
SEE BIDLDGY, SYSTEMATIC

TCDD
SEE HALDBENZENES, HALOGENATED BIPHENYLS-TRIPHENYLS AND ANALOGS

TCDF
SEE HALDBENZENES, HALOGENATED BIPHENYLS-TRIPHENYLS AND ANALOGS

TEACHING
SEE EDUCATION, TEACHING

TEACHING MACHINES
SEE EDUCATION, PRDGRAMMED INSTRUCTION, TEACHING MACHINES

TECHNETIUM RADIOISOTOPES (99)
SEE RADIOISOTOPES, TECHNETIUM

TEFLON
SEE PLASTICS, FLUORDCARBON POLYMERS

TELA CHOROIDEA
SEE BRAIN, CENTRAL SPACES, CHOROID PLEXUS

TELE(RADIOFREQUENCY)ELECTRONIC STIMULATORS
SEE ELECTRONIC STIMULATORS, RADIOFREQUENCY CONTROLLED

TELEMEDICINE (GENERAL)
SEE BIDMEDICAL SYSTEMS AUTOMATED, TELEMEDICINE (GENERAL)

TELEMETERING
SEE BIOMEDICAL SYSTEMS AUTDMATED, TELEMETERING AND REMOTE SENSING

TELENCEPHALON
SEE BRAIN, CEREBRUM

TEMPERAMENT
SEE PSYCHDLDGY, PERSONALITY

TEMPERATURE (SEE ALSO THERM...)
SEE ALSO SENSORY-PERCEPTUAL PROCESSES, THERMORECEPTION
P01HL-07896-15 0029 Environmental biomedical research program - Dxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
P01HL-07896-15 0050 Environmental biomedical research program - Fundamental decompression concepts using the rat animal model
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
** R01HL-12879-09 0007 Pulmonary transport and metabolism in vivo - Effects of temperature changes on pulmonary transport
R01HL-12879-09 0011 Pulmonary transport and metabolism in vivo - Membrane characteristics of lung cells (human, animals)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14414-07 0010 Environmental influences on cardiorespiratory and cellular functions - Pressure effects on cardiac electrical phenomena (animals)
** P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
P01HL-15194-07 0009 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Diffusion and erythrocytes reaction rates (human, dogs)
P01HL-15835-06 0011 Study of muscles related to heart disease - Energetics and mechanism of muscle contraction (frogs, rabbits)
P01HL-16833-04 0003 Hemoglobin and red cell system in hemoglobinopathies - Dxygen binding curves and equilibria (human)
R01HL-17576-04 Role of sphingomyelin in biomembranes and bilayers (rats, other mammals)
R01HL-17944-03 Studies in lung preservation (dogs)
R01HL-18082-03 Erythrocyte phosphates and vertebrate gas transport (amphibians, reptiles)
P01HL-19737-02 0007 Cellular and molecular aspects of respiratory physiology - Average oxygen tension of tissue using radioisotopes (dogs)
R01HL-20262-02 Cardiac glycosides and the mechanism of the sodium-potassium pump
R01HL-20635-03 Factors in lung development (rat and chick embryo)
P01HL-20994-02 0009 Dynamics of neutrophil elastase in the lung - Biosynthesis and degradation of elastin in emphysema (human, hamsters)
P01HL-21016-02 0005 Sickle cell anemia and other hemoglobinopathies - Ligand kinetics in normal and Hb S containing erythrocytes (human)
P01HL-21016-02 0006 Sickle cell anemia and other hemoglobinopathies - Analysis of the oxygen dissociation curve of Hb S-containing red cells
R01HL-22008-01 Left ventrivular calcium content and contractility (rats)
R01HL-23900-01 Mechanical measurement of cell membrane viscosity (human)

TEMPERATURE, COLD
SEE ALSO BLOOD COAGULATIDN, CRYOFIBRINOGEN
SEE ALSO ENVIRONMENT, CLIMATE, COLD
SEE ALSO ENVIRONMENT, STRESS, COLD INDUCED
SEE ALSO GLOBULINS, CRYOGLOBULINS
SEE ALSO TEMPERATURE (BODY), HYPOTHERMIA
R01HL-22928-01 Systematic study of bronchial circulation (sheep)

TEMPERATURE, CRYOPROTECTIVE AGENTS
** P01HL-06312-17 D033 Surgical cardiology - Studies in cryopreservations (rats)
** R01HL-20219-02 Cryopreservation of the isolated heart (rats)

TEMPERATURE, CRYOSCIENCES
SEE ALSO TEMPERATURE (BDDY), HYPDTHERMIA INDUCED, CRYOSURGERY
SEE ALSD TEMPERATURE (BODY), HYPOTHERMIA INDUCED, CRYOTHERAPY
R01HL-145D8-10 Structure and function of respiratory hemoproteins
R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)

TEMPERATURE, CRYOSCIENCES, LOW TEMPERATURE PRESERVATION AND STORAGE
** PD1HL-06312-17 0033 Surgical cardiology - Studies in cryopreservations (rats)
** P01HL-09D11-15 0022 A research and resource program in blood - Cryopreservation of blood components (human)
R01HL-14126-17 Effect of function on grafts and implants of collagen (dogs, monkeys)
R01HL-15647-06 Hematopoietic studies of cyclic hematopoiesis (dogs)
P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)
P60HL-17265-04 0007 Community blood resource center support - Research--Massive transfusion and trauma (human)
R01HL-17944-03 Studies in lung preservation (dogs)
R01HL-18936-02 Heart preservation and transplantation studies (rat)
** R01HL-20219-02 Cryopreservation of the isolated heart (rats)
** R01HL-20695-02 Stored plateletes (human)
** R01HL-20716-02 Freezing and electromagnetic thawing of platelets (rats)
R01HL-20718-02 Microstructural integrity of stored human platelets
N01HR-62930-03 Lung cell resource facility

TEMPERATURE, FREEZE-ETCHING*
** P01HL-16117-05 0001 Ion movements and membranes in cardiovascular control - Developmental studies of contractile cell junctions (rats, rabbits, elasmobranch)
P01HL-16607-05 0007 Calcium ion and control of cardiovascular function - Ultrastructure and conformation in sarcoplasmic reticulum (rabbits)
P50HL-19171-02 0009 Pulmonary SCDR--Lung injury by childhood infections - Host-parasite interaction--Scanning electron microscopy, freeze-fracture methods
** P01HL-20592-02 0014 Cell biology of cardiac and skeletal muscle - Core laboratory

TEMPERATURE, FREEZING
R01HL-20716-02 Freezing and electromagnetic thawing of platelets (rats)

TEMPERATURE, HEAT
SEE ALSO ENVIRONMENT, STRESS, HEAT INDUCED
SEE ALSD INJURIES, TEMPERATURE DEPENDENT, HEAT INDUCED
SEE ALSO SENSORY-PERCEPTUAL PROCESSES, THERMORECEPTIDN
P01HL-12157-11 0057 Functions and mechanisms of cell membrane ion transport - Electrophysiological investigations of synthetic strands of heart muscles (rats)
R01HL-19352-03 Respiratory heat and water loss in neonates
R01HL-21126-02 Exercise-induced bronchospasm in children

TEMPERATURE, HEAT, CALORIC STIMULATION
** P01HL-14388-07 0184 Regulation of the circulation in pathological states - Vestibular reflexes in control of circulation (human)
** R01HL-20077-02 External cardiac stimulation with microwave radiation (dogs)

TEMPERATURE, HEAT, CALORIMETRY*
R01HL-20365-03 Molecular mechanisms of anion transport

TEMPERATURE, HEAT, MICROWAVE HEATING
** R01HL-20077-02 External cardiac stimulation with microwave radiation (dogs)
** R01HL-20716-02 Freezing and electromagnetic thawing of platelets (rats)

TEMPERATURE, HEAT STABILITY-LABILITY
** P01HL-07896-15 0036 Environmental biomedical research program - Respiratory heat loss in deep diving (infants, dogs)
R01HL-20241-02 Shear and area moduli for abnormal red cell membranes (human)
** R01HL-20554-02 Memory-alloy-filters for venous emboli (dogs)

TEMPERATURE (BODY)
SEE ALSO TEMPERATURE MEASUREMENT, THERMOGRAPHY*
R01HL-04651-19 Remote stimulation by radio-frequency transmission (dogs, human)
** P01HL-06285-18 0195 Cardiovascular-respiratory physiology and biochemistry - Thyroid thermogenesis and sodium transport (rats)
** P01HL-07896-15 D036 Environmental biomedical research program - Respiratory heat loss in deep diving (infants, dogs)
R01HL-16666-05 Micropinocytosis in isolated capillary endothelium
R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)
R01HL-17958-04 Circulatory effects of operant cardiovascular control (baboons)
** RD1HL-19352-03 Respiratory heat and water loss in neonates
R01HL-20399-D3 Vascular control in experimental diabetes mellitus (dog)
R01HL-20554-D2 Memory-alloy-filters for venous emboli (dogs)
R01HL-2D634-01 Blood volume and venous return in thermal strain (human)
RD1HL-2D766-02 Control of circulation in heat stress (baboons)
R01HL-20861-01 Cardio-respiratory-renal stress reactions (dogs)
R01HL-21329-02 Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat)

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*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

[illegible] has sub[illegible]rojects describing specific res[illegible]h aspects.
[illegible]se Appendix for investigator's name and gra[illegible]

R01HL-21451-01 Control of circulation during heat stress and fever (baboon)
R01HL-22418-01 Neural control of cardio-respiratory function (cats)

TEMPERATURE (BODY), FEVER
SEE ALSO NEUROPHARMACOLOGICAL AGENTS, ANALGESICS, ANTIPYRETICS
P01HL-08899-14 0041 Tolerance to respiratory gases in health and disease - Blood gas transport and brain circulatory control (human)
** R01HL-17352-03 Physiological regulation during chronic hyperthermia (sheep)
** R01HL-21451-01 Control of circulation during heat stress and fever (baboon)

TEMPERATURE (BODY), HYPERTHERMIA INDUCED
SEE ALSO INJURIES, TEMPERATURE DEPENDENT, HEAT INDUCED
R01HL-20077-02 External cardiac stimulation with microwave radiation (dogs)

TEMPERATURE (BODY), HYPOTHERMIA
SEE ALSO ENVIRONMENT, ADAPTATION, HIBERNATION
P01HL-06285-18 0164 Cardiovascular-respiratory physiology and biochemistry - CPK MB isoenzyme concentration to quantify infarct size (human, animals)
P01HL-08682-15 0006 Regulation of the cardiovascular system - Cardiovascular studies of mammalian hibernators (sciuromorpha)
P01HL-08899-14 0026 Tolerance to respiratory gases in health and disease - Effects of oxygen on central nervous system functions (rats, rabbits)
P01HL-10436-13 0006 A multidisciplinary study of congenital heart disease - Ventricular blood pumps and valves (human, cattle)
** R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
P01HL-18646-03 0010 Studies basic to heart transplantation - Development and study of a heart preservation chamber (dogs, sheep)
R01HL-20371-02 Intravascular redistribution of blood volume (dogs)
** R01HL-21786-01 Long-term effects of myocardial protection (dogs, rats)
R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis
R01HL-22928-01 Systematic study of bronchial circulation (sheep)
R01HL-23736-04 Sickle cell anemia and hemoglobin synthesis (monkeys)

TEMPERATURE (BODY), HYPOTHERMIA INDUCED
SEE ALSO SENSORY DEPRESSION, ANESTHESIA, REFRIGERATION
** P01HL-06312-17 0044 Surgical cardiology - The limits of topical cardiac hypothermia with ice chips (rats)
P01HL-12738-10 0094 Physiologic pharmacology and its clinical applications - Ventricular function and structure (human, dogs)
R01HL-15676-06 The role of occult myocardial failure in human shock (human, dogs)
** R01HL-16292-05 0018 Surgery and non-obstructive coronary insufficiency - Unavoidable subendocardial perfusion caused by venting and hypothermia (dogs)
P50HL-17665-04 0021 Study of ischemic heart disease - Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog)
** P50HL-17667-04 0022 Study of ischemic heart disease - Preventing myocardial injury in surgery using cardiopulmonary bypass (human, rat)
R01HL-19182-03 Surgical aspects of myocardial hypertrophy (dogs)
** R01HL-19203-03 Surgical approach to congenital heart diseases (dogs, primates)
R01HL-19414-03 Protection of myocardium during cardiac surgery (dogs, cats, human)
R01HL-20080-02 Surgically induced myocardial edema (dogs)
** R01HL-20143-02 Hypothermic circulatory arrest--Cerebral vascular change (dogs)
R01HL-20720-02 Myocardial protection during cardiopulmonary bypass (dogs)
** R01HL-22759-01 Regional myocardial blood flow during hypothermia (dogs)
R01HL-22894-01 Two dimensional ultrasound and cardiac surgery (human, dogs)

TEMPERATURE (BODY), HYPOTHERMIA INDUCED, CRYOSURGERY
** R01HL-16292-05 0002 Surgery and non-obstructive coronary insufficiency - Effects of hypothermia during cardiopulmonary bypass (dogs)
P50HL-17670-04 0008 Study of ischemic heart disease - Surgical treatment of cardiac rhythm disorders (human, dogs)

TEMPERATURE (BODY), HYPOTHERMIA INDUCED, CRYOTHERAPY
P60HL-15168-07 0005 Comprehensive sickle cell disease center Ophthalmology (human, rabbits, monkeys)
P50HL-17665-04 0020 Study of ischemic heart disease Ischemic injury to myocardium during measured states of ischemia (human)

TEMPERATURE (BODY), POIKILOTHERMS
P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions Temperature and acid-base status in tissues, cells, and subcellular system

TEMPERATURE (BODY) REGULATION
** R01HL-02228-24 Respiration, circulation, and heat regulation in exercise (bird, mammals)
P01HL-07896-15 0033 Environmental biomedical research program - Breathing mechanism in birds
** P01HL-07896-15 0053 Environmental biomedical research program - Thermoregulation in asthmatics
P01HL-08682-15 0006 Regulation of the cardiovascular system - Cardiovascular studies of mammalian hibernators (sciuromorpha)
P01HL-08899-14 0007 Tolerance to respiratory gases in health and disease - Effects of high oxygen pressures on visual function (human, animals)
P01HL-08899-14 0018 Tolerance to respiratory gases in health and disease - Effects of respiratory gases at extreme pressures (human)
P01HL-08899-14 0026 Tolerance to respiratory gases in health and disease - Effects of oxygen on central nervous system functions (rats, rabbits)
P01HL-16910-05 0008 Regulation of the peripheral circulation - Circulation to bone (dogs, baboons)
** R01HL-17732-03 Peripheral venomotor control in thermal stress (human)
R01HL-20634-01 Blood volume and venous return in thermal strain (human)
R01HL-20663-02 Regulation of skin blood flow in man
** R01HL-21323-02 Raynaud's disease and temperature self-regulation (human)
R01HL-22910-01 Control of breathing pattern in health and disease (human, animals)

TEMPERATURE JUMP METHOD
SEE CHEMISTRY, ANALYTICAL METHODS, TEMPERATURE JUMP*

TEMPERATURE MEASUREMENT, THERMOGRAPHY*
** P50HL-17651-04 0038 Ischemic heart disease specialized center of research - Cardiothermography (human, dog)
** R01HL-19848-02 Contractile activation by rapid temperature jumps (frogs)

TEMPERATURE SENSE
SEE SENSORY-PERCEPTUAL PROCESSES, THERMORECEPTION

TEMPERATURE SENSITIVE MUTANTS
SEE GENETICS, MUTATION, MUTANTS, TEMPERATURE SENSITIVE MUTANTS*

TEMPORAL ARTERITIS
SEE CEREBROVASCULAR DISORDERS, TEMPORAL ARTERITIS

TENSILE STRENGTH
SEE PHYSICAL PROPERTIES, TENSILE STRENGTH

TEORELL MEMBRANE OSCILLATOR
SEE BIOLOGICAL TRANSPORT, MEMBRANE PERMEABILITY AND TRANSPORT

TERATOGENIC AGENTS
SEE CONGENITAL ABNORMALITIES, TERATOGENIC AGENTS

TERBUTALINE
SEE PHENYLALKYLAMINES, TERBUTALINE

TERPENES, CAROTENOIDS
SEE ALSO PIGMENTS, BACTERIAL, BACTERIORHODOPSIN-RETINAL
SEE ALSO VITAMIN A
R01HL-20352-02 Defenses of lung cells against oxygen toxicity (human, animals)

TERPENES, FARNESYL COMPOUNDS
R01HL-15476-05 Mechanism and control of sterol biosynthesis (rats)
R01HL-16101-05 Protein-lipid interaction (bacteria, models)

TERPENES, SQUALENE
R01HL-02477-23 Biosynthesis and function of lipids (microorganisms, rats)
R01HL-06222-18 Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)
R01HL-08634-15 Enzymic cholesterol synthesis (human, rats, protozoa, yeast)
R01HL-12745-10 Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine)
R01HL-15476-05 Mechanism and control of sterol biosynthesis (rats)
R01HL-20488-03 Cholesterol metabolism in diabetic man

TERPENES SAPONINS
** R01HL-16587-04 Cholesterol binding saponins and atherosclerosis (monkeys)

TESTING OF INSTRUMENTATION, CLINICALLY ORIENTED
SEE BIOMEDICAL ENGINEERING, INSTRUMENTATION CLINICALLY ORIENTED

TESTING OF INSTRUMENTATION, NOT CLINICALLY ORIENTED
SEE BIOMEDICAL ENGINEERING, INSTRUMENTATION NOT CLINICALLY ORIENTED

TESTOSTERONE
SEE ANDROSTANE SERIES, TESTOSTERONE

TESTS
SEE DIAGNOSIS, DIAGNOSTIC TESTS*
SEE HYPERSENSITIVITY TESTS
SEE IMMUNOLOGICAL TESTS AND IMMUNOASSAY, IMMUNOLOGICAL TESTS*
SEE PSYCHOLOGICAL TESTS (GENERAL)*

TETANUS TOXOID
SEE IMMUNOLOGICAL PREPARATIONS, TOXOIDS, TETANUS TOXOID

TETRACOSANOIC ACID
SEE FATTY ACIDS, TETRACOSANOIC ACID

TETRAETHYLAMMONIUM COMPOUNDS
SEE AMMONIUM QUATERNARY, TETRAETHYLAMMONIUM COMPOUNDS

TETRAETHYLENE PENTAMIN EPICHLORHYDRIN COPOLYMER
SEE CHOLESTANE SERIES, CHOLESTEROL INHIBITORS, COLESTIPOL

TETRAHYDROISOQUINOLINES
SEE QUINOLINES, ISOQUINOLINES

TETRALOGY OF FALLOT
SEE CONGENITAL ABNORMALITIES, HEART DEFECTS, TETRALOGY OF FALLOT

TETRODOTOXIN
SEE TOXICOLOGY, ANIMAL POISONS, TETRODOTOXIN

THALAMUS
SEE BRAIN, THALAMUS

THALASSEMIA
SEE HEMOPROTEINS, HEMOGLOBINOPATHIES, THALASSEMIA

THALLIUM IMAGING
SEE HEART VISUALIZATION*

THALLIUM RADIOISOTOPES (198,202,204)
SEE RADIOISOTOPES, THALLIUM

THEOPHYLLINE
SEE PURINES, XANTHINES, THEOPHYLLINE

THERAPEUTIC DIET
SEE NUTRITION, DIET THERAPEUTIC

THERAPEUTIC EMBOLIZATION
SEE CARDIOVASCULAR SURGERY, VASCULAR OCCLUSION THERAPEUTIC

THERAPEUTIC EQUIVALENCE OF DRUGS
SEE DRUGS, PHARMACOLOGY, BIOAVAILABILITY

THERAPEUTIC VASCULAR OCCLUSION (OBLITERATION)
SEE CARDIOVASCULAR SURGERY, VASCULAR OCCLUSION THERAPEUTIC

THERAPY, BURN THERAPY
R01HL-20177-02 Effects of erythrocyte deformability on tissue perfusion (rats)

THERAPY, CAUTERY, PHOTOCOAGULATION THERAPY
P60HL-15168-07 0005 Comprehensive sickle cell disease center - Ophthalmology (human, rabbits, monkeys)
P01HL-21016-02 0016 Sickle cell anemia and other hemoglobinopathies - The treatment of sickle cell retinopathy (human)

THERAPY, HYDROTHERAPY
** R01HL-17407-05 Peripheral circulation and fluid balance (fish, mammals, human)

THERAPY, INHALATION THERAPY
SEE ALSO DOSAGE AND ROUTE, INHALATION
SEE ALSO RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, AEROSOL THERAPY
SEE ALSO RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, HYPERBARIC OXYGENATION
SEE ALSO RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, OXYGEN INHALATION THERAPY
R01HL-10622-12 Volumes and compliance of pulmonary circulation (human, dogs)

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

THERAPY, LAVAGE

SEE ALSO BLOOD TREATMENT, WHOLE BODY PERFUSION (BLOOD REPLACEMENT)
SEE ALSO RESPIRATORY ASSIST AND OXYGEN ADMINISTRATION, PULMONARY LAVAGE

R23HL-19584-01 Alveolar macrophage responses to toxic particle exposure (guinea pigs, human)
N01HR-52957-02 Composition of respiratory mucus (human, swine)

THERAPY, PLACEBO EFFECT

R01HL-16651-05 Evaluation of steroid therapy in sarcoidosis (human)

THERAPY, RELAXATION

SEE PSYCHIC ACTIVITY LEVEL, RELAXATION

THERAPY EVALUATION

** N01HB-22919-08 Hemoglobin carbamylation in the treatment of sickle cell anemia (human, dogs)
** N01HB-22922-08 Develop effective therapy for sickle cell disease (human, dogs)
N01HB-62970-02 Collection, function and transfusion of granulocytes
N01HB-62973-05 Collection, function and transfusion of granulocytes
N01HB-72916-02 Crisis and pain symptom prophylaxis by oral zinc therapy (human)
R01HL-01601-30 Blood coagulation and hemorrhagic disease (horseshoe crabs)
** P01HL-04664-18 0014 Cardiovascular and lung dynamics - Clinical application of computer analysis of ventricular wall motion
R01HL-04666-19 Artificially paced hearts--Technology, physiology (human, dogs)
R01HL-05875-18 Pathologic metabolic and physiologic studies of heart (human, dogs, cats)
** P01HL-06308-18 0029 Mechanisms and therapy of circulatory disease - Characterization of the patient with recurrent ventricular arrhythmias
P01HL-06312-17 0013 Surgical cardiology - Aortocoronary vein bypass grafting (human)
P01HL-06312-17 0016 Surgical cardiology - Effect of hydralazine on infarct size following coronary occlusion (human)
P01HL-06312-17 0017 Surgical cardiology - Cardiac transplantation (human)
** P01HL-06312-17 0051 Surgical cardiology - Diuretic therapy on myocardial electrolyte composition and water content (human)
P01HL-06370-17 0001 Cardiopulmonary and renal pathology research center - The humoral and cellular mechanisms of allograft rejection (monkeys)
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
P01HL-06664-17 0010 Cardiopulmonary function in remediable vascular disease - Ischemia and acute renal failure (rats)
P01HL-06664-17 0036 Cardiopulmonary function in remediable vascular disease - In vitro studies on the mechanism of ischemic damage to cells (rabbits)
** P01HL-06835-17 0053 Cardiovascular disease - Vasodilating drugs (human)
R01HL-07776-15 Sudden death and cardiac arrhythmias (human, dogs, cats)
** P01HL-07896-15 0046 Environmental biomedical research program - Treatment of radiation induced tissue injury by hyperbaric oxygen (human)
P01HL-07896-15 0057 Environmental biomedical research program - Effects of dipyridamole and aspirin on decompression thrombocytopenia (human)
R01HL-08888-12 Cooperative study of drugs and coronary heart disease (men)
** R01HL-08892-10 Cooperative study of drugs and coronary heart disease
** P01HL-09011-15 0020 A research and resource program in blood - Passive immunization in the prevention of transmission of hepatitis B (human)
** P01HL-09011-15 0023 A research and resource program in blood - Evaluation of hepatitis B vaccine in endemic settings (human)
R01HL-09474-11 Natural history-congenital heart defects--Joint study (human)
R01HL-09476-10 Natural history, congenital heart defects--Joint study
R01HL-09914-13 The myocardium in diabetes mellitus (dogs, monkeys)
** R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
P01HL-10539-12 0023 Pathophysiology of circulation - The relaxation response and therapy of disease states (human)
** P01HL-10539-12 0031 Pathophysiology of circulation - Post myocardial infarction care--Psychological aspects (human)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-10711-12 Cooperative study of treatment of hypertension (human)
R01HL-10718-10 Natural history of congenital heart defects--Joint study (human)
P01HL-11310-12 0059 Mechanisms of cardiovascular disease - Contractility--Acute response to diogoxin after heart surgery (children)
** P01HL-11310-12 9001 Mechanisms of cardiovascular disease - Core support-hospital beds
R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)
P01HL-11414-11 0004 Thrombosis and atherosclerosis program - Platelet function and nonthrombogenic surfaces (human)
R01HL-11775-11 Platelet mechanisms in disease (human, primates)
P01HL-12738-10 0001 Physiologic pharmacology and its clinical applications - Clinical pharmacology of cardioactive drugs (human)
P01HL-12738-10 0065 Physiologic pharmacology and its clinical applications - Psychotheropeutic drugs and cardiovascular system (human, rats)
P01HL-12738-10 0076 Physiologic pharmacology and its clinical applications - Pediatric cardiac electrophysiology and pharmacology (human, dogs)
P01HL-12738-10 0092 Physiologic pharmacology and its clinical applications - Subendocardial ischemia following open heart surgery (human)
** P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
P01HL-13108-09 0015 Clinical heart transplantation - Antithymocyte globulin analysis and clinical effects
P01HL-13108-09 0018 Clinical heart transplantation - Electrophysiologic studies of cardiac drugs in the denervated heart
R01HL-13654-08 Antilipemic regimes in peripheral arteriosclerosis (human)
P01HL-13737-07 0028 Assisted circulation - Clinical studies of intraaortic balloon pumping
P01HL-13737-07 0029 Assisted circulation - Chronic left ventricular failure (human)
P01HL-13737-07 0037 Assisted circulation - Clinical measurement of blood flow through aorto-coronary vein bypass graft
R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)
R01HL-13885-08 0005 Cystic fibrosis and pulmonary disease - Evaluation of lobar pulmonary lavage (human)
** P50HL-14138-05 0010 Center for research on atherosclerosis - Diet and exercise as therapy in men with premature atherosclerosis
** P50HL-14192-08 0001 Specialized center of research in hypertension - Surgical and medical treatment of renovascular hypertension (human)
** P50HL-14192-08 0002 Specialized center of research in hypertension - Hypertensive patients with renal artery stenosis
P50HL-14217-08 0049 Specialized center of research in thrombosis - Fibrinolysis section--Clinical studies
M P50HL-14236-05 Prevention of premature arteriosclerosis
P50HL-14236-05 0002 Prevention of premature arteriosclerosis - Myocardial blood flow in patients with coronary artherosclerosis
P50HL-14236-05 0009 Prevention of premature arteriosclerosis - Clinical studies on cholesterol metabolism (human)
** P50HL-14237-07 0006 Support for arteriosclerosis center - Drug treatment of familial hyperbetalipoproteinemia (human)
R01HL-14378-07 Lipemias and reconstructive cardiac surgery (human)
R01HL-14663-07 Pulmonary oxygen toxicity in newborn lung (human, mice)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
P01HL-14985-07 0013 Adaptation to hypoxia - Chronic mountain sickness (men)
P50HL-15061-07 0013 Response of lung to injury - Exchange transfusion in infants with respiratory distress syndrome (human, sheep)
P60HL-15158-07 0011 Comprehensive sickle cell center - Clinical services--Adult patients
** P60HL-15160-07 0014 Center for sickle cell disease - Replacement therapy of opsonin deficiency in sickle cell anemia (children)
** P60HL-15162-07 0021 Comprehensive sickle cell center - Pneumococcal vaccine in sickle cell disease (children)
P60HL-15169-05 0018 Support for center for sickle cell disease - Studies on sickle cell disease (human, rats, dogs)
P60HL-15170-05 0001 Support for center for sickle cell anemia - Adult clinical services
R01HL-15190-07 Physiological basis of arrhythmias and their therapy (human)
M P01HL-15265-05 Program on surgical control of the hyperlipidemias
P01HL-15265-05 0013 Program on surgical control of the hyperlipidemias - Clinical center - Minnesota
P01HL-15265-05 0014 Program on surgical control of the hyperlipidemias - Arkansas clinical center
R01HL-15374-03 Cooperative study of drugs and coronary heart disease (human)
R01HL-15526-05 Respiratory mechanics in children
R01HL-15758-06 Catecholamine release in the heart (dogs)
P60HL-15996-06 0003 Cincinnati comprehensive sickle cell center - Prophylactic penicillin in treatment of sickle cell anemia (human)
P60HL-15999-05 0008 Miami comprehensive sickle cell center - Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits)
** P60HL-16005-05 0021 Comprehensive sickle cell center - Management of pregnancy in sickle cell anemia (human)
P60HL-16008-06 0015 Wayne State University comprehensive sickle cell center - Trace elements in sickle cell disease (human)
R01HL-16375-04 Investigation of hemoglobin S properties (human)
R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
R01HL-16461-05 Late results of valve replacement--Computer analysis (human)
** R01HL-16651-05 Evaluation of steroid therapy in sarcoidosis (human)
R01HL-16757-04 'Autoimmune' thrombocytopenia (monkey)
R01HL-17243-05 Cause of chronic experimental renal hypertension (dogs, rabbits)
** P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)
** P60HL-17265-04 0007 Community blood resource center support - Research--Massive transfusion and trauma (human)
** P60HL-17265-04 0009 Community blood resource center support - Research--Developing granulocyte transfusion therapy (human, rabbit)
P60HL-17269-04 0029 National heart and blood vessel research and demonstration center - Clinical application of circulatory assistance (human)
** P60HL-17292-04 0009 Vermont Lung Center - Controlled clinical trials on a clinical core unit (human)
R01HL-17513-04 Role of PF-4 in detecting and promoting thrombosis (human, primates)
R01HL-17631-05 Experimental congestive heart failure and hypertrophy (cats)
P50HL-17646-04 0001 Study of ischemic heart disease - Core clinical investigation unit
** P50HL-17646-04 0015 Study of ischemic heart disease - Protecting ischemic myocardium in patients with evolving myocardial infarction
P50HL-17648-04 0011 Study of ischemic heart disease - Surgical treatment for acute myocardial ischemia (human, dogs)
** P50HL-17648-04 0012 Study of ischemic heart disease - Retrograde coronary venous perfusion--Acute myocardial ischemia
P50HL-17651-04 0032 Ischemic heart disease specialized center of research - Cardiovascular surgery core (human, dogs)
M P50HL-17655-04 Study of ischemic heart disease
P50HL-17655-04 0001 Study of ischemic heart disease - Intravenous nitroglycerin--Ventricular function and infarct size (human, dog)
P50HL-17655-04 0003 Study of ischemic heart disease - Cardiopulmonary resuscitation (human, dog)
** P50HL-17655-04 0006 Study of ischemic heart disease - Evaluation of coronary artery bypass graft surgery (human)
** P50HL-17655-04 0009 Study of ischemic heart disease - Random trial of medical and surgical therapy in unstable angina (human)
M P50HL-17665-04 Study of ischemic heart disease
** P50HL-17665-04 0001 Study of ischemic heart disease - Reduction of acute anterior myocardial infarction--Mechanical circulatory assist
** P50HL-17665-04 0002 Study of ischemic heart disease - Reducing acute anterior myocardial infarction--Beta adrenergic blockade (human)
** P50HL-17665-04 0003 Study of ischemic heart disease - Quantitation of injury--Acute myocardial infarction complicated by shock (human)
** P50HL-17665-04 0013 Study of ischemic heart disease - National cooperative study in unstable angina pectoris (human)
P50HL-17665-04 0020 Study of ischemic heart disease - Ischemic injury to myocardium during measured states of ischemia (human)
** P50HL-17665-04 0022 Study of ischemic heart disease - Effect of coronary revascularization on left ventricular function (human)
P50HL-17665-04 0026 Study of ischemic heart disease - Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human)
P50HL-17667-04 0001 Study of ischemic heart disease - Natural history of ischemic heart disease (human)
P50HL-17667-04 0018 Study of ischemic heart disease - Arrhythmias in ischemic heart disease (human)
** P50HL-17667-04 0019 Study of ischemic heart disease - Assessment of long-term results of coronary artery bypass grafting (human)
P50HL-17667-04 0022 Study of ischemic heart disease - Preventing myocardial injury in surgery using cardiopulmonary bypass (human, rat)
** P50HL-17669-04 0012 Ischemic heart disease center (SCOR) - Circulatory assistance (human, dog)
M P50HL-17670-04 Study of ischemic heart disease

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P50HL-17670-04 0008 Study of ischemic heart disease - Surgical treatment of cardiac rhythm disorders (human, dogs)
P50HL-17670-04 0009 Study of ischemic heart disease Surgical treatment of localized left ventricular dyssynorgy (human, dogs)
** P50HL-17682-04 0001 Study of ischemic heart disease - Studies in acute and chronic ischemic heart disease (human)
** P50HL-17682-04 0003 Study of ischemic heart disease - Effects of myocardial revascularization in man
** P50HL-17682-04 0008 Study of ischemic heart disease - Clinical core unit
P50HL-17682-04 0016 Study of ischemic heart disease - Endurance exercise--Prevention and rehabilitation in ischemic heart disease (pig)
P01HL-17731-04 0006 Physiological basis of pulmonary disease Ventilation-perfusion ratios (human, dogs)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
R01HL-17776-04 Pulmonary mucus transport in obstructive lung diseases (human)
P01HL-17871-04 0009 Kidney, sodium, cardiac output, arterioles and hypertension - Kidney, sodium, cardiac output, arterioles and hypertension
R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
R01HL-17909-04 Drug treatment of vascular scleroprotein defects (human, turkeys)
R01HL-17974-03 External pneumatic compression in deep venous thrombosis (human)
M R01HL-17993-04 Ventricular dynamics from surgically inserted markers
R01HL-17993-04 0001 Ventricular dynamics from surgically inserted markers - Effects of aortocoronary bypass graft surgery on ventricular function (human)
R01HL-17993-04 0003 Ventricular dynamics from surgically inserted markers - Effects of pharmacologic agents on left ventricular dynamics (human)
R01HL-17993-04 0005 Ventricular dynamics from surgically inserted markers - Cardiac dimensions and dynamic after mitral, aortic valve surgery (human)
R01HL-18190-03 Myocardial blood flow in acute myocardial infarction (human, dogs)
R01HL-18204-03 Regional blood flow in viral myocarditis (turkeys)
R01HL-18308-03 Comprehensive studies of mucociliary transport (dogs)
P50HL-18323-04 0043 SCOR hypertension center - Pharmacology--Renin-aldosterone mechanisms in essential hypertension (human)
P50HL-18323-04 0047 SCOR hypertension center - Transcendental meditation and self-hypnosis--Hypertension treatment (human)
R01HL-18333-05 Thrombogenesis and hemostatic balance (rabbits, human)
R01HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
P01HL-18576-03 0012 Thrombosis research program project - Synthetic anticoagulant and thrombolytic agents (dogs)
R01HL-18606-04 Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs)
P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
P01HL-18708-03 0010 Oxygen, energy and contractility in cardiac tissue - Tissue oxygen utilization (rats, dogs)
R01HL-18738-02 Prevention of postoperative venous thrombi (human, cattle)
R01HL-18783-04 Detection and control of ventricular premature beats (human)
R01HL-18805-04 0003 Sudden cardiac death and the onset of myocardial infarction - Prediction from clinical and laboratory assessments (human)
R01HL-18805-04 0004 Sudden cardiac death and the onset of myocardial infarction - Sudden death survivors--Clinical follow-up and therapy (human)
R01HL-18814-03 Behavioral tactics for clinical cardiac control (human)
** R01HL-18907-03 Objective evaluation early after MI and heart surgery (human)
R01HL-18997-02 Ischemic therapy in experimental hypersplenism (rats, dogs)
R01HL-19045-03 Electrophysiology of cardiac automaticity (human, dogs)
P50HL-19170-02 0007 Harvard pulmonary SCOR--Chronic diseases of the airways - Therapy effect on airway obstruction in acute asthma (human)
** P50HL-19185-02 0007 Pulmonary SCOR--Neonatal respiratory distress syndromes - Sodium bicarbonate and albumin in resuscitation of preterm infants (human)
** P50HL-19185-02 0009 Pulmonary SCOR--Neonatal respiratory distress syndromes - Nasal continuous positive airway pressure in hyaline membrane disease (human)
** P50HL-19187-02 0010 Pediatric pulmonary SCOR--Hyaline membrane disease - Treatment, outcome of HMO--Continuous positive airway pressure (human, monkey)
P01HL-19259-03 0004 Digoxin-specific antibody in human therapy - Digitalis-specific antibodies pharmacological studies (human, dogs, sheep)
R01HL-19451-03 0004 Functional charactoristics of the left heart Quantitative coronary arteriography (human)
** R01HL-19568-03 Hypertension-Analysis of drug and behavioral therapies (human)
** P01HL-19717-02 0040 Response of the lung to injury Immunosuppressive drugs in usual interstitial pneumonia (human)
R01HL-19844-02 Behavioral control of essential hypertension (human)
R01HL-19946-03 Reduction of iron overload in thalassemia (children, rabbits, dogs, monkeys)
R01HL-19961-03 Management of hemosiderosis in thalassemia (children, adults)
R01HL-20016-03 Chelator development for thalassemia (human, mice, rats, dogs, monkeys)
** R01HL-20187-01 Evaluation of exercise cardiac rehabilitation program (40-55 year old men)
R01HL-20190-02 Pathogenesis of cardiac hypertrophy (dogs)
R01HL-20218-02 Fibrinogen catabolism and intravascular coagulation (human)
R01HL-20286-02 Interventions to improve cardiac function in ischemia (dogs)
** R01HL-20337-02 Thromboembolic diseases (human)
R01HL-20394-03 Complement activation by heart subcellular membranes (human, dog)
R01HL-20397-03 VLDL-TG metabolism in diabetes mellitis (human, rat)
** R01HL-20455-03 Role of systemic hypertension on diabetic retinopathy (human)
M P01HL-20552-02 The development and regression of cardiac hypertrophy
P01HL-20552-02 0002 The development and regression of cardiac hypertrophy - Effect of treatment on the hypertrophied left ventricle (rats)
R01HL-20612-02 Chronic animal model of pulmonary vascular injury (dogs)
** R01HL-20856-02 Platelet transfusions--Usage and complications (human)
** P60HL-20985-01 0002 Northern California sickle cell center - Immunization with polyvalent pneumococcal polysaccharide vaccine (human)
P50HL-21006-02 0001 Specialized center of research in arteriosclerosis - Clinic and core program
P01HL-21016-02 0016 Sickle cell anemia and other hemoglobinopathies - The treatment of sickle cell retinopathy (human)
R01HL-21052-01 Evaluation of a digitalis therapy advisor
** R01HL-21115-01 Prevention of 02 toxicity with superoxide dismutase (rats)
** R01HL-21293-02 Randomized study of coronary bypass surgery (human)
R01HL-21323-02 Raynaud's disease and temperature self-regulation (human)
R01HL-21427-02 Behavioral changes in post infarction patients
R01HL-21444-02 Pulmonary mechanics during postnatal development (human)
** R01HL-21533-02 Platelet inhibitor drug in coronary surgery (human)
R23HL-22004-01 Imaging and ECG studies in acute and chronic IHD (human)
R01HL-22026-01 Endogenous prostaglandins in asthma
R01HL-22035-01 Molecular modification of heparin by chemical means (sheep)
R01HL-22065-01 Intractability, medication, and coping styles in asthma (human)
** R01HL-22215-01 Effects of exercise-training in ischemic heart disease (human)
M R23HL-22345-02 Behavioral cardiovascular compliance strategies
R01HL-22547-01 Behavioral treatment of Raynaud's disease (human)
R23HL-22575-01 Factors modifying cardiac digoxin effects and content (dogs, cats)
** R01HL-22750-01 Digoxin in heart failure with sinus rhythm (human)
R01HL-22843-01 Pulmonary physiology in liquid ventilation (lambs)
R01HL-22868-01 Presynaptic regulatory mechanisms in hypertension (rats, dogs)
** R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)
** R18HL-22934-01 Behavorial approaches to adolescent hypertension
** P60HL-23282-01 0003 Comprehensive hospital/community sickle cell center - Treatment of sickle cell ulcers with physical therapy and vitamin E (human)
** N01HR-62942-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (humam)
** N01HR-62943-05 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62944-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62945-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62946-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62947-04 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)
** N01HR-62948-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62949-05 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62950-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62951-04 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-62952-05 Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome
** N01HR-72902-04 Study of intermittent positive pressure breathing
** N01HR-72903-05 Study of intermittent positive pressure breathing
** N01HR-72904-03 Study of intermittent positive pressure breathing
** N01HR-72905-03 Study of intermittent positive pressure breathing
** N01HR-72906-03 Study of intermittent positive pressure breathing
** N01HR-72972-01 Self-management for asthmatic children
** N01HV-12434-11 Therapy for hypertension in the general population
** N01HV-12435-15 Therapy for hypertension in the general population (human)
** N01HV-12436-15 Hypertension therapy in the general population (human)
** N01HV-12440-14 Therapy for hypertension in the general population (human)
** N01HV-12442-14 Therapy for hypertension in the general population (human)
** N01HV-22931-14 Therapy for hypertension in general population
** N01HV-22937-07 Therapy for hypertension in general population
** N01HV-22938-11 Therapy for hypertension in general population
N01HV-22939-12 Hypertension detection and follow-up program center
** N01HV-22945-11 Cooperative hypertension detection and follow-up study (human)
N01HV-22971-07 Prevention of coronary heart disease (human)
N01HV-22976-07 Multiple risk factor intervention trial, prevention of coronary heart disease
N01HV-22977-08 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22979-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22980-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22981-10 Intervention trial for the prevention of coronary heart disease (human)
N01HV-22982-07 Intervention trial for prevention of coronary heart disease (human)
N01HV-22983-07 Intervention trial for the prevention of coronary heart disease (human)
N01HV-32973-12 Coordinating center for collaborative studies on coronary artery surgery
N01HV-32974-09 Collaborative studies on coronary artery surgery (human)
N01HV-32975-08 Collaborative studies on coronary artery surgery (human)
N01HV-32976-09 Collaborative studies on coronary artery surgery (human)
N01HV-32980-07 Collaborative studies on coronary artery surgery (human)
N01HV-32981-10 Collaborative studies on coronary artery surgery (human)
N01HV-32983-11 Collaborative studies on coronary artery surgery (human)
N01HV-32984-10 Collaborative studies on coronary artery surgery (human)
N01HV-32985-11 Collaborative studies on coronary artery surgery (human)
N01HV-33101-06 Development and conduct of a multiple risk factor intervention trial (human)
N01HV-33105-09 Intervention trial for prevention of coronary heart disease (human)
N01HV-33106-06 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33108-04 Prevention of coronary heart disease (human)
N01HV-33109-04 Intervention trial for the prevention of coronary heart disease (human)
N01HV-33110-04 Prevention of coronary heart disease (human)
N01HV-42929-08 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42930-09 Risk factor intervention trial for the prevention of CHD (human)
N01HV-42931-07 Risk factor intervention trail for the prevention of CHD (men)
** N01HV-52901-06 Aspirin-myocardial infarction study
** N01HV-52941-04 Center for aspirin-myocardial infarction study (human)
** N01HV-62960-00 Techniques to protect ischemic myocardium and minimize infant size (human)
N01HV-72940-02 Therapy to protect ischemic myocardium (human)
N01HV-72941-02 Therapy to protect ischemic myocardium--Clinical tests
N01HV-72942-02 Therapy to protect ischemic myocardium--Clinical tests

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

N01HV-72948-03 Coordinating center for propranolol heart trial (human)
N01HV-72951-03 Clinical center for propranolol heart trial (human)
N01HV-72952-02 Clinical center for propranolol heart trial (huamn)
** N01HV-72953-04 Clinical center for propranolol heart trial
N01HV-72954-06 Clinical center for propranolol heart trial (human)
N01HV-72955-02 Clinical center for propranolol heart trial (human)
N01HV-72956-02 Clinical center for propranolol heart trial (human)
N01HV-72957-02 Clinical center for propranolol heart trial (human)
** N01HV-72958-02 Clinical center for propranolol heart trail (human)
N01HV-72959-04 Clinical center for propranolol heart trial (human)
** N01HV-72960-02 Clinical center propranolol heart trial (human)
** N01HV-72963-02 Clinical center for propranolol heart trial (human)
** N01HV-72964-02 Clinical center for propranolol heart trial (human)
** N01HV-72967-02 Clinical center for propranolol heart trial (human)
N01HV-72969-02 Clinical center for propranolol heart trial (human)
** N01HV-82904-02 Clinical center for propranolol heart trial (human)
** N01HV-82910-00 Clinical center for propranolol heart trial (human)
** N01HV-82915-01 Therapy for hypertension in the general population (human)

THERMOACTINOMYCES
SEE BACTERIA, ACTINOMYCETALES, THERMOPHILIC ACTINOMYCETES*

THERMODYNAMICS (CHEMISTRY)
SEE CHEMISTRY, THERMODYNAMICS (GENERAL)

THERMOGRAPHY
SEE TEMPERATURE MEASUREMENT, THERMOGRAPHY*

THERMOLYSIN
SEE PROTEASES AND PEPTIDASES, THERMOLYSIN

THERMOPHILIC ACTINOMYCETES
SEE BACTERIA, ACTINOMYCETALES, THERMOPHILIC ACTINOMYCETES*

THERMOPOLYSPORA
SEE BACTERIA, ACTINOMYCETALES, THERMOPHILIC ACTINOMYCETES*

THERMORECEPTION
SEE SENSORY-PERCEPTUAL PROCESSES, THERMORECEPTION

THERMOREGULATION (BODY TEMPERATURE)
SEE TEMPERATURE (BODY) REGULATION

THERMOSTABILITY-LABILITY
SEE TEMPERATURE, HEAT STABILITY-LABILITY

THIADIAZINES, DIAZOXIDE
P01HL-06835-17 0053 Cardiovascular disease - Vasodilating drugs (human)
R01HL-12827-08 Regulation of sodium excretion (dogs, rats)

THIAMINE DEFICIENCY
SEE NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS B, THIAMINE DEFICIENCY

THIAZINES
SEE ALSO PHENOTHIAZINES
R01HL-17702-04 Electro-optical dyes as probes of heart excitability

THIN LAYER CHROMATOGRAPHY
SEE PHYSICAL SEPARATION, CHROMATOGRAPHY, THIN LAYER*

THIOCARBAMATES, DISULFIRAM
R01HL-22718-01 Cardiovascular drug interactions--Metabolism models (dogs)

THIOCARBAMIDE
SEE THIOUREA

THIOCTIC ACID
SEE VITAMIN B, LIPOIC ACID

THIOCYANATES
R01HL-14127-16 Methemoglobinemia and antihypertensive drugs (cats, mice, rats)
P50HL-19362-02 0006 A/S SCOR--Atherosclerosis in nonhuman primates - Effects of cigarette smoking on atherosclerosis (baboon)

THIODIPHENYLAMINE
SEE PHENOTHIAZINES

6-THIOGUANOSINE
SEE THIOPURINE NUCLEOSIDES, THIOGUANINE NUCLEOSIDES, 6-THIOGUANOSINE

THIOLS
SEE ALSO SULFHYDRYLS
P50HL-14217-08 0058 Specialized center of research in thrombosis - Mechanisms of induction and inhibition of platelet reaction (human, pig)
M P01HL-16683-04 Function and growth of cardiac and skeletal muscle
P01HL-16683-04 0001 Function and growth of cardiac and skeletal muscle - Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)
P01HL-16683-04 0002 Function and growth of cardiac and skeletal muscle - Myosin, actin, ATP, interaction in solution
** P01HL-16683-04 0003 Function and growth of cardiac and skeletal muscle - Movements of S-1 moieties in muscle fibers
P01HL-16683-04 0006 Function and growth of cardiac and skeletal muscle - Chemical studies of the contractile system--Development of new reagents
P01HL-20984-02 0003 Cellular mechanisms in cardiac hypertrophy - Fast-kinetics of myosin ATPase from normal and hypertrophied heart (rabbits)

THIOPENTAL
SEE PYRIMIDINES, BARBITURATES, THIOPENTAL

THIOPHENES
SEE ALSO SULFONATES, TRIMETHAPHAN CAMSYLATE
SEE ALSO VITAMIN B, BIOTIN
R01HL-15512-06 Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys)

THIOPURINE NUCLEOSIDES, THIOGUANINE NUCLEOSIDES, DEOXYTHIOGUANOSINE
R01HL-20856-02 Platelet transfusions--Usage and complications (human)

THIOPURINE NUCLEOSIDES, THIOGUANINE NUCLEOSIDES, 6-THIOGUANOSINE
R01HL-20856-02 Platelet transfusions--Usage and complications (human)

THIOPURINES, 6-MERCAPTOPURINE
P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)

THIOPURINES, 6-MERCAPTOPURINE, AZATHIOPRINE
P01HL-06312-17 0018 Surgical cardiology - Cardiac transplantation growth (calves)
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
R01HL-08696-15 0012 Orthotopic heart transplantation - Transplantation immunology--Modulation of donor antigenicity (dogs)
P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immune response (dogs)
P01HL-20993-02 0005 Population dynamics of arterial cells in atherogenesis - Drugs other than hypolipidemic drugs affecting atherosclerosis (swine, rabbits)

THIOPYRIMIDINES, THIOURACIL
R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)

THIOSUGARS
SEE CARBOHYDRATES, SULFOSUGARS, THIOSUGARS

THIOURACIL
SEE THIOPYRIMIDINES, THIOURACIL

THIOUREA
R01HL-19720-03 Evaluation of anti-fibrotic agents in pulmonary fibrosis (rats)

THIRST
SEE NUTRIENT INTAKE ACTIVITY, THIRST

THOMSEN DISEASE
SEE METABOLIC DISORDERS INBORN, MYOTONIA CONGENITA

THORACIC DUCT
SEE BLOOD AND RE SYSTEM, LYMPHATIC CIRCULATION, THORACIC DUCT

THORACIC PRESSURE
SEE RESPIRATORY FUNCTION, RESPIRATION, THORACIC PRESSURE

THORACIC SURGERY
SEE SURGERY, THORACIC

THORAX
SEE BODY REGIONS, THORAX

THORAZINE
SEE PHENOTHIAZINES, CHLORPROMAZINE

THOUGHT CONTROL
SEE PSYCHOLOGY, BRAIN CONTROL

THREE-DIMENSIONAL X-RAY SCANNING
SEE RADIOGRAPHY, SCANNING, OSR

THRESHOLDS, SENSORY
SEE SENSORY THRESHOLDS

THROAT
SEE ORAL-PHARYNGEAL, PHARYNX

THROMBASE
SEE BLOOD COAGULATION, THROMBIN

THROMBASTHENIN
SEE BLOOD COAGULATION, THROMBOSTHENIN

THROMBIC INDEX
SEE BLOOD COAGULATION TESTS, THROMBIC INDEX*

THROMBIN
SEE BLOOD COAGULATION, THROMBIN

THROMBOCYTE TYPING
SEE BLOOD PLATELET TYPING

THROMBOCYTES
SEE BLOOD PLATELETS

THROMBOCYTHEMIA, HEMORRHAGIC
SEE BLOOD PLATELETS DISORDERS, THROMBOCYTHEMIA, HEMORRHAGIC

THROMBOCYTOPATHY
SEE BLOOD PLATELETS DISORDERS, THROMBOCYTOPATHY

THROMBOCYTOPENIA
SEE BLOOD PLATELETS DISORDERS, THROMBOCYTOPENIA

THROMBOCYTOPENIC PURPURA
SEE BLOOD PLATELETS DISORDERS, THROMBOCYTOPENIC PURPURA

THROMBOEMBOLISM
SEE CARDIOVASCULAR DISORDERS, EMBOLISM, THROMBOEMBOLISM

THROMBOLYSIS
SEE BLOOD COAGULATION, FIBRINOLYSIS

THROMBOPATHY CONSTITUTIONAL
SEE BLOOD COAGULATION DISORDERS, VON WILLEBRAND'S DISEASE
SEE BLOOD PLATELETS DISORDERS, THROMBOCYTOPATHY

THROMBOPHLEBITIS
SEE CARDIOVASCULAR DISORDERS, THROMBOPHLEBITIS

THROMBOPLASTIN
SEE BLOOD COAGULATION, THROMBOPLASTIN

THROMBOPLASTINOGEN
SEE BLOOD COAGULATION, FACTOR IX

THROMBOPLASTINOGEN A
SEE BLOOD COAGULATION, FACTOR VIII

THROMBOPOIESIS INHIBITORS
SEE BLOOD COAGULATION, THROMBOPOIESIS INHIBITORS

THROMBOPOIESIS STIMULATING FACTORS
SEE BLOOD COAGULATION, THROMBOPOIESIS STIMULATING FACTORS

THROMBOPOIETIN
SEE BLOOD COAGULATION, THROMBOPOIESIS STIMULATING FACTORS, THROMBOPOIETIN

THROMBOSIS
SEE CARDIOVASCULAR DISORDERS, THROMBOSIS

THROMBOSIS, VENOUS (INCL. DEEP VEIN)
SEE CARDIOVASCULAR DISORDERS, THROMBOSIS, VENOUS

THROMBOSTHENIN
SEE BLOOD COAGULATION, THROMBOSTHENIN

THROMBOXANES
SEE FATTY ACIDS, UNSATURATED FATTY ACIDS, THROMBOXANES

THYMECTOMY
SEE BLOOD AND RE SYSTEM, THYMECTOMY

THYMIDINE FACTOR
SEE GROWTH HORMONES VERTEBRATE, SOMATOMEDIN (SULFATION FACTOR)(THYMIDINE FACTOR)

THYMIDINE KINASE
SEE PHOSPHOTRANSFERASES, ATP:THYMIDINE 5-PHOSPHOTRANSFERASE

THYMIN
SEE BLOOD AND RE SYSTEM, THYMOSIN

THYMOSIN
SEE BLOOD AND RE SYSTEM, THYMOSIN

THYMUS DEPENDENT IMMUNE SYSTEM
SEE IMMUNITY, CELLULAR IMMUNITY (GENERAL)

THYROCALCITONIN
SEE THYROID HORMONES, (THYRO)CALCITONIN

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

THYROID ANTAGONISTS

R01HL-20352-02 Defenses of lung cells against oxygen toxicity (human, animals)

THYROID FUNCTION

R01HL-06975-18 Pathogenesis and prevention of hypertension (rats)
R01HL-15498-06 Effects of physical training on heart (rats)
R01HL-22361-01 Regulation of cardiac adaptation to exercise (rats)
** R01HL-23115-01 Regulation of active sodium transport (frogs, rats)

THYROID GLAND DISORDERS

R01HL-02063-23 Biochemistry and function of lipids and cell membranes (human, yeast, animals)
** P01HL-06370-17 0015 Cardiopulmonary and renal pathology research center - Pathogenesis of chemically induced tissue injury (rats)
R01HL-22258-01 New aspects of pharmacology related to carbonic anhydrase
R01HL-22354-01 Alpha-adrenergic effects on heart metabolism (rats)
R01HL-22812-01 Regulation of hepatic production of HDL (rats)

THYROID GLAND DISORDERS, HYPERTHYROIDISM

R01HL-13375-09 Cellular potential changes causing cardiac arrhythmias (dogs)
R01HL-13636-08 Effects of pharmacologic agents on heart metabolism (human, rodents)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
P01HL-14985-07 0012 Adaptation to hypoxia - Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs)
R01HL-16436-04 Role of calcium and thyroxine in heart function (rats)
R01HL-20678-02 Cardiovascular adaptation to stress in disease states (dogs)
P01HL-20984-02 0001 Cellular mechanisms in cardiac hypertrophy - Contractile proteins in cardiac hypertrophy (rabbits, calves)
P01HL-20984-02 0003 Cellular mechanisms in cardiac hypertrophy - Fast-kinetics of myosin ATPase from normal and hypertrophied heart (rabbits)

THYROID GLAND DISORDERS, HYPOTHYROIDISM

R01HL-02965-22 Metabolism of plasma lipoproteins (rats, chickens, human)
R01HL-13626-06 Lipoprotein lipase and lipoprotein removal (human, rats, bacteria)
P01HL-18574-03 0006 Lipoprotein methodology and biomedical applications - Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents
R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis

THYROID HORMONES

SEE ALSO THYRONINE, TRIIODOTHYRONINE
R01HL-01813-25 Regulation of metabolism by drugs and hormones (rats)
** P01HL-06285-18 0195 Cardiovascular-respiratory physiology and biochemistry - Thyroid thermogenesis and sodium transport (rats)
R01HL-06924-16 Humoral and metabolic aspects of cardiac function (mammals, non-human, human)
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
R01HL-14706-07 Fetal hearts in organ culture (mice)
R01HL-16611-04 Digitalis-receptor of the heart (guinea pigs, rats)
R01HL-16760-05 Dynamic control of coronary blood flow (dogs)
R01HL-18003-05 Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human)
** R01HL-18176-02 Effect of thyroid hormone on cultured cardiac cells (rats)
R01HL-18185-04 Cardiac glycosides and diuretics--Role of Na0 pump (dogs)
R01HL-18553-03 Membrane defects in familial hypercholesteremia (human)
P01HL-18645-03 0007 Biology of the artery wall and atherosclerosis - Lipoprotein metabolism in subhuman primates
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
P01HL-20552-02 0001 The development and regression of cardiac hypertrophy - Biochemical events in cardiac hypertrophy (rats)
P01HL-20592-02 0010 Cell biology of cardiac and skeletal muscle - Mitochondrial genesis during myocardial cell hypertrophy and hyperplasia (rats)
R01HL-20859-02 Beta adrenergic catecholamine receptor
R01HL-20905-02 Synthesis of fetal hemoglobin in erythroid cells (sheep, human)
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells
R01HL-22607-01 Role of apolipoprotein E in lipoprotein metabolism (human)
P01HL-22619-01 0010 Cellular mechanisms of heart failure - Mitochondria in heart and smooth muscle (rabbits, rats, dogs)
R01HL-22873-01 Adrenoceptor interconversion and hormone homeostasis
R01HL-23736-04 Sickle cell anemia and hemoglobin synthesis (monkeys)

THYROID HORMONES, DEXTROTHYROXINE

R01HL-08888-12 Cooperative study of drugs and coronary heart disease (men)
R01HL-10445-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-10705-09 Cooperative study of drugs and coronary heart disease (men)
R01HL-11372-08 Cooperative study of drugs and coronary heart disease (men)

THYROID HORMONES, (THYRO)CALCITONIN

R01HL-22561-01 Hormonal control of mesenteric circulation (cats)

THYROID HORMONES, THYROXINE

SEE ALSO HALOPROTEINS, THYROXINE BINDING PROTEINS
P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)
R01HL-10503-13 Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)
P50HL-14218-07 0017 Pulmonary SCOR--Newborn lung center - Transvascular fluid exchange, vasoactive mediators in RDS (sheep, cat)
** R01HL-15316-07 Lung surfactant system--Control mechanisms (rats)
** R01HL-16436-04 Role of calcium and thyroxine in heart function (rats)
R01HL-17932-04 Blood flow regulation in muscle (cats)
R01HL-19669-03 Lung organ culture and surfactant biosynthesis (adult and fetal rats)
R01HL-19752-03 Phospholipid synthesis by fetal lung in organ culture (rats)
R23HL-22490-01 Neurotransmitter receptors of cultured heart cells

THYRONINE, TRIIODOTHYRONINE

R01HL-16364-04 Regulation of lipid biosynthesis and transport (rats, swine, Xenopus)
R01HL-18938-03 Pulmonary fatty acid and phospholipid metabolism (rats)

THYROTOXICOSIS

SEE THYROID GLAND DISORDERS, HYPERTHYROIDISM

THYROTROPIN

SEE PITUITARY-DIENCEPHALON HORMONES, THYROTROPIN

THYROXINE

SEE THYROID HORMONES, THYROXINE

THYROXINE BINDING PROTEINS

SEE HALOPROTEINS, THYROXINE BINDING PROTEINS

TIME

SEE ENVIRONMENT, CLIMATE, SEASONS

TIME DEPENDENT COMPUTER DATA

SEE COMPUTER, TIME-DEPENDENT COMPUTER DATA

TIME DOMAIN SPECTROSCOPY

SEE OPTICS, INTERFEROMETRY*

TIME RELEASE DRUGS

SEE DRUGS, SLOW RELEASE PREPARATIONS

TISSUE (GENERAL)

SEE ALSO CONNECTIVE TISSUE (GENERAL)
SEE ALSO HISTOLOGY (GENERAL)*
** P01HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
P01HL-15194-07 0006 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Velocity of Bohr effect in erythrocytes (human)
P01HL-15194-07 0009 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Diffusion and erythrocytes reaction rates (human, dogs)
R01HL-17503-03 Vascular bubbles in decompression sickness (minipig, dog, goat)
** R01HL-20607-02 Tissue analysis by mass spectrometer (dogs)

TISSUE, EPITHELIUM

SEE ALSO CARDIOVASCULAR SYSTEM, ENDOTHELIUM
SEE ALSO MEMBRANE
P01HL-06285-18 0193 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Aldosterone (rats, foads)
** P01HL-06285-18 0196 Cardiovascular-respiratory physiology and biochemistry - Hormonal regulation of sodium transport--Epithelial cell membranes (toads)
P01HL-06285-18 0209 Cardiovascular-respiratory physiology and biochemistry - Metabolic studies of isolated lung cells (human, animals)
P01HL-06664-17 0038 Cardiopulmonary function in remediable vascular disease - The dynamics of ADH stimulated osmotic water flow
** P01HL-06664-17 0039 Cardiopulmonary function in remediable vascular disease - Transepithelial active transport and cell volume regulation (frogs)
** P01HL-06664-17 0040 Cardiopulmonary function in remediable vascular disease - The coupling of ion transport to metabolism (toads)
R01HL-12650-08 Environmental pathobiology of the lung (hamsters, rats)
M R01HL-12879-09 Pulmonary transport and metabolism in vivo
** R01HL-12879-09 0005 Pulmonary transport and metabolism in vivo - Glucose transport by pulmonary endothelium and epithelium (dogs)
R01HL-12879-09 0007 Pulmonary transport and metabolism in vivo - Effects of temperature changes on pulmonary transport
R01HL-12879-09 0008 Pulmonary transport and metabolism in vivo - Stop-flow technique for permeability measurements
** R01HL-12879-09 0011 Pulmonary transport and metabolism in vivo - Membrane characteristics of lung cells (human, animals)
R01HL-12974-10 Tracer kinetics, flows and masses in body organs (human, dogs)
R01HL-13885-08 0009 Cystic fibrosis and pulmonary disease - Respiratory mucus glycoproteins (human, rabbits)
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
** P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
** R01HL-14844-06 Mucous glycoprotein in human respiratory epithelium (also wheat)
P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures and contractility in cells of lung respiratory tract
** R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)
R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)
R01HL-17571-03 Study of membrane permeability by NMR relaxation (human)
P50HL-19156-02 0001 Pulmonary SCOR--Chronic diseases of airways - Irritability of airways induced by epithelial damage in healthy subjects (human)
P50HL-19156-02 0005 Pulmonary SCOR--Chronic diseases of airways - Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit)
P50HL-19171-02 0009 Pulmonary SCOR--Lung injury by childhood infections - Host-parasite interaction--Scanning electron microscopy, freeze-fracture methods
P50HL-19171-02 0010 Pulmonary SCOR--Lung injury by childhood infections - Metabolic pathways of normal and injured respiratory cells
P50HL-19185-02 0005 Pulmonary SCOR--Neonatal respiratory distress syndromes - Role and mechanism of glucocorticoids in fetal lung maturation (human, rabbit)
P50HL-19190-02 0003 Pulmonary SCOR--Pathophysiology, management of IRDS - Type II cells--Regulation and differentiation (rat)
P50HL-19190-02 0004 Pulmonary SCOR--Pathophysiology, management of IRDS - Type II cells--Control of protein turnover (rabbit)
P01HL-19717-02 0014 Response of the lung to injury - Stereology of epithelialized bronchi in evolving elastase emphysema (hamsters)
R01HL-20878-02 Cellular aspects of lung injury (rats, rabbits)
R01HL-21076-02 Lung fluid, protein exchange after hemorrhagic shock (sheep)
R23HL-21150-02 Regulation of airway mucous glands and ion transport (dogs, ascaris)
R01HL-21314-02 Respiratory tract secretion of ions, water and mucus (human, dogs)
R01HL-21376-02 Blood-gas barrier solute and water transport (rabbits)
** R23HL-21396-02 Isolation, growth and metabolism of type 1 pneumocytes (rabbits)
** R01HL-21849-02 Control of sodium transport and cellular respiration (toad bladder)
R01HL-22552-02 Abnormal alveolar permeability and lung disease (sheep)
** R01HL-22883-01 Lung epithelial cell interactions in vitro
** R01HL-22924-01 The airway mucosal barrier (guinea pigs)
R01HL-23981-01 Acute alveolar injury (dogs)

TISSUE, ORGANS (SEE ALSO SPECIFIC ORGANS)

P01HL-08899-14 0042 Tolerance to respiratory gases in health and disease - Definitions and extension of oxygen tolerance in organ systems (animals)
** P01HL-08899-14 0055 Tolerance to respiratory gases in health and disease - Oxygen effects on organ functions--Extension of tolerance
R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)

TISSUE AND CELL PREPARATION

SEE ALSO TEMPERATURE, FREEZE-ETCHING*

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** R01HL-01770-26 Structural aspects of lung surfactant system (rats)
R01HL-16730-03 Physiology of mucociliary transport (rats, frogs, rabbits)
P50HL-17648-04 0013 Study of ischemic heart disease - Fate of bypassed and bypassing vessels (dogs)
P50HL-17648-04 0020 Study of ischemic heart disease - Core pathology laboratory--Ischemic heart disease (human, animal)
P01HL-17731-04 0011 Physiological basis of pulmonary disease - Morphometric studies of the lung--Core
P01HL-20592-02 0013 Cell biology of cardiac and skeletal muscle - Sarcoplasmic reticulum in skinned muscle cells (frogs)

TISSUE AND CELL PREPARATION, SECTIONING

P01HL-12373-10 0016 Cardiopulmonary physiology and pathophysiology - Histology-histochemistry-Gough laboratory

TISSUE BANKS

SEE TISSUE RESOURCES, REGISTRIES

TISSUE (CELL) CULTURE*

P01HL-03174-23 0005 Mechanisms of acute vascular reaction to injury - Renal small vessel didease--Cell and matrix response (human, mice)
P01HL-06285-18 0209 Cardiovascular-respiratory physiology and biochemistry - Metabolic studies of isolated lung cells (human, animals)
P01HL-06314-17 0048 Immunologic mechanisms in cardiovascular disease - Pathogenesis of glomerulonephritis (rats, mice)
P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)
P01HL-06314-17 0055 Immunologic mechanisms in cardiovascular disease - Genetics and cell biology
** P01HL-06314-17 0063 Immunologic mechanisms in cardiovascular disease - Glomerular cells in tissue culture (human)
P01HL-07896-15 0047 Environmental biomedical research program - Pulmonary oxygen toxicity (chickens, rabbits)
** P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)
P01HL-08214-15 0030 Chemical and biological properties of lipids - Fatty acid biosynthesis in plant cell cultures and in plants
R01HL-10018-11 Effect of aging on beating heart cells in culture (rats)
P01HL-11351-12 0011 Cellular and molecular mechanisms of myocardial function - Comparative contractile tissue studies (animals)
** P01HL-11351-12 0020 Cellular and molecular mechanisms of myocardial function - Electrophysiology of cultured heart cells
** P01HL-12157-11 0055 Functions and mechanisms of cell membrane ion transport - Growth and development of synthetic strand heart cells in culture (chick embryo)
** P01HL-12738-10 0135 Physiologic pharmacology and its clinical applications - Myocardial cells in tissue culture (rats, chick embryo)
R01HL-12766-09 Structure-function relation of blood vessels (rats, monkeys)
R01HL-12879-09 0011 Pulmonary transport and metabolism in vivo - Membrane characteristics of lung cells (human, animals)
P01HL-13108-09 0010 Clinical heart transplantation - Serum factors inhibiting lymphocyte responses in MLC (human, bush babies)
P01HL-13108-09 0015 Clinical heart transplantation - Antithymocyte globulin analysis and clinical effects
P01HL-13262-07 0012 Arterial wall in atherosclerosis - Characterization of connective tissue components (animals)
P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
P50HL-14138-05 0015 Center for research on atherosclerosis - Arterial wall--Intermediary metabolism, enzyme activity and bioenergetics
** P50HL-14147-08 0012 Specialized center of research in thrombosis - Tissue culture study of arterial cells (human, hamster)
P50HL-14218-07 0006 Pulmonary SCDR--Newborn lung center - Biochemical characteristics of the lung in RDS (human, sheep)
** P50HL-14230-07 9002 A/S SCOR--Lipids, atherosclerosis and thrombosis - Core tissue culture laboratory
P01HL-14388-07 0179 Regulation of the circulation in pathological states - Cultured muscle cells and their cross-innervation in vitro (rats, sheep)
R01HL-14717-06 Hemodynamics and heart structure--Ventricular overload (dogs)
P50HL-15062-07 0020 Study of lipoproteins, artery wall, and atherosclerosis - Artery wall reactions--Elevated pressure and hyperlipemia (monkey)
R01HL-15316-07 Lung surfactant system--Control mechanisms (rats)
** R01HL-15685-05 Hemopoietic regulators produced in cell culture (human, animals)
R01HL-15740-06 In vitro studies on heart cell function (rats)
P01HL-15832-06 0004 Chemical-structural predispositions to lung injury - Proteolytic activity leucocytes in patients with obstructive lung disease
** P01HL-15832-06 9001 Chemical-structural predispositions to lung injury - Tissue culture studies of lung cell function--Core facility
P01HL-16117-05 0001 Ion movements and membranes in cardiovascular control - Developmental studies of contractile cell junctions (rats, rabbits, elasmobranch)
P01HL-16137-05 0004 Alveolar biology - Subcellular processes and controls in the surfactant system (animals)
P01HL-16387-04 0004 The blood vessel and thrombogenesis - Analysis of vascular basement membrane by enzymatic methods (human)
R01HL-16714-05 Endothelial cell communication in homeostasis (human, mammals)
R01HL-16725-03 Physiological regulation of pulmonary surfactant (dogs, rats)
P01HL-16769-05 0004 Pathobiologic and host defense reactions in the lung - Pathogenesis of Pseudomonas and Serratia pneumonias (rabbits)
** P01HL-16769-05 0009 Pathobiologic and host defense reactions in the lung - Electron microscopy and tissue culture core laboratory
P01HL-16833-04 0009 Hemoglobin and red cell system in hemoglobinopathies - Rheological studies of sickled cells (human)
R01HL-16918-05 Role of steroids in hypertension (human)
P60HL-17269-04 0035 National heart and blood vessel research and demonstration center - Blood resources--Research program in viral hepatitis (human)
P01HL-17419-04 0006 Studies on mechanisms of hemostasis - Effect of hormones, drugs and other agents on fibrinogen synthesis (chick)
** P01HL-17430-05 0008 Control of coagulation - Cultures of von Willebrand endothelial cells (pigs)
P50HL-17648-04 0025 Study of ischemic heart disease - Destruction and repair of cardiac muscle cell constituents (rat)
P50HL-17648-04 0028 Study of ischemic heart disease - Electrophysiology of sympathetic innervation in tissue culture
P50HL-17682-04 0018 Study of ischemic heart disease - Biochemistry of ischemia--Heart cell and organ culture (mice, rats, cattle)
** P50HL-17682-04 0023 Study of ischemic heart disease - Core cell and organ culture laboratory (mice)
P01HL-17813-04 0008 Lung disease and the oxygenation of blood and tissue - Pulmonary regulation of systemic blood pressure (human, rabbits, rats)
R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
M P01HL-18645-03 Biology of the artery wall and atherosclerosis
** P01HL-18645-03 0001 Biology of the artery wall and atherosclerosis - Primate arterial smooth muscle and atherosclerosis
** P01HL-18645-03 0003 Biology of the artery wall and atherosclerosis - Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys)
** P01HL-18645-03 0004 Biology of the artery wall and atherosclerosis - Human arterial smooth muscle cell and lipoprotein interaction
** P01HL-18645-03 0005 Biology of the artery wall and atherosclerosis - Effects of atherosclerosis risk factors on endothelium of the primate
** R01HL-18647-03 Ischemic myocardial injury in cultured heart cells (rats)
P01HL-18708-03 0007 Dxygen, energy and contractility in cardiac tissue - Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro
** P01HL-18708-03 0008 Dxygen, energy and contractility in cardiac tissue - Cardiac cell culture facility
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
P01HL-18827-02 0001 Platelet vessel wall interactions in thrombogenesis - Role of endothelial cells in the production of thrombi (human, cattle)
** P50HL-19190-02 0003 Pulmonary SCDR--Pathophysiology, management of IRDS - Type II cells--Regulation and differentiation (rat)
P50HL-19190-02 0004 Pulmonary SCDR--Pathophysiology, management of IROS - Type II cells--Control of protein turnover (rabbit)
R01HL-19229-02 Prostaglandins and hypertension (human, rats, dogs, rabbits)
R01HL-19287-03 The antihypertensive function of the renal medulla (human, rats, rabbits)
** R01HL-19684-03 Histotypic lung culture in circumfusion systems (mice)
R01HL-19685-03 Pathogenesis of inflammation of the lung (guinea pigs)
P01HL-19717-02 0002 Response of the lung to injury - Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits)
P01HL-19717-02 0007 Response of the lung to injury - Cellular level studies of prostaglandin-like molecules (cattle)
P01HL-19737-02 0013 Cellular and molecular aspects of respiratory physiology - Cell metabolism analytical facility
** R01HL-20054-02 Cultured blood vessel cells--Pathophysiology (human, animals)
R01HL-20201-01 Hypertension and vascular steroid receptors (rats)
R01HL-20643-02 Analysis of heart cell contraction (rats)
R01HL-20924-02 Atherosclerosis and arterial cell functions (human, rabbits)
P01HL-20948-02 0001 Molecular basis of cholesterol metabolism - Biochemical and ultrastructural characterization of LDL in human fibroblasts
P01HL-20948-02 0002 Molecular basis of cholesterol metabolism - LDL pathway in cell lines with informative properties other than fibroblasts
P01HL-20948-02 0003 Molecular basis of cholesterol metabolism - LDL pathway in vivo (human, rats, guinea pigs)
P01HL-20948-02 0004 Molecular basis of cholesterol metabolism - Genetic analysis of the LDL pathway (human)
** P01HL-20948-02 9001 Molecular basis of cholesterol metabolism - Tissue culture core laboratory
P01HL-20993-02 0007 Population dynamics of arterial cells in atherogenesis - Interaction of lipoproteins in hypercholesteremia (human, swine)
R01HL-21038-01 Electrically induced cardiac EM-histochemical changes (animals)
R01HL-21751-02 0001 Thallium and antimyosin in ischemia and infarction - In vitro models of ischemia and infarction (rats, mice)
R23HL-21950-01 Endothelial cell mechanisms in vascular disease (human)
R01HL-22077-01 Vasoactive amine disposition in cultured endothelium (rabbits)
** R01HL-22137-02 Structure-function pathology of isolated heart cells (mice, rats)
** R01HL-22444-01 Bronchial mucus production in organ culture (human)
R01HL-22486-01 Enzyme regulation in cultured arterial cells (swine)
R01HL-22527-01 Prostacyclin-thromboxanes in the cardiovascular system (human, rabbits)
M P01HL-22602-01 Pathophysiology of the endothelium
** P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
P01HL-22602-01 0002 Pathophysiology of the endothelium - Molecular charge and endothelial permeability (rats, mice)
** P01HL-22602-01 0003 Pathophysiology of the endothelium - Mechanisms of endothelial proliferation (human, animals)
** P01HL-22602-01 9002 Pathophysiology of the endothelium - Core--Culture of blood vessel--Derived cells
R01HL-22623-01 Polyamines cellular mediators of atherogenesis (human)
** P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
** P01HL-22633-01 9001 Cellular and molecular biology of lipoprotein metabolism - Tissue culture core
R01HL-22924-01 The airway mucosal barrier (guinea pigs)
R01HL-22939-01 Human kinin and fibrinolytic systems and renal disease (human)
** R01HL-23542-01 Pulmonary vascular smooth muscle cell dynamics (rat, rabbit)
** N01HV-12060-18 Tissue cultured endothelium for vascular prosthetic devices (human, animals)
N01HV-81388-20 Microfiber substrate for growth of intimal linings in circulatory assist devices

TISSUE (CELL) CULTURE, CELL CULTURE COLLECTIONS BANKS AND REGISTRIES

SEE ALSD TISSUE (CELL) CULTURE, EMBRYDNIC-FETAL CELL LINES
P01HL-19737-02 0003 Cellular and molecular aspects of respiratory physiology - Cortisol-dependent alterations in lung type II cells (rats)
** N01HR-62930-03 Lung cell resource facility

TISSUE (CELL) CULTURE, CLONE CELLS*

SEE ALSD NEDPLASTIC CELLS, HELA CELLS
P01HL-03174-23 0010 Mechanisms of acute vascular reaction to injury - Search for mutagens in the human blood (bacteria, animals)
P01HL-15835-06 0009 Study of muscles related to heart disease - Aspects of cardiac and skeletal myogenesis (chick embryo)
P01HL-15835-06 0025 Study of muscles related to heart disease - Cellular biology of vascular smooth muscle (guinea pig)
P01HL-16137-05 0008 Alveolar biology - Macromolecular events in pulmonary cells in toxic environments (animals)
R01HL-18473-04 Genesis of atherosclerotic lesions (human, mules)
P50HL-19171-02 0010 Pulmonary SCDR--Lung injury by childhood infections - Metabolic pathways of normal and injured respiratory cells
** P01HL-19259-03 0001 Digoxin-specific antibody in human therapy - Primary structure of monoclonal antibodies (rabbits)
** P01HL-19259-03 0003 Digoxin-specific antibody in human therapy - Synthesis of dogoxin-specific antibody in continuous cell culture (human, sheep)
R01HL-20913-02 Cell culture studies of hemoglobinopathies (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-20993-02 0003 Population dynamics of arterial cells in atherogenesis - Clonal phenomena in atherogenesis (human, hares)
P01HL-20993-02 0009 Population dynamics of arterial cells in atherogenesis - Mathematical biology--Core
** P01HL-21016-02 0012 Sickle cell anemia and other hemoglobinopathies - Stimulation of Hb F synthesis in a permanent cell line
P01HL-22633-01 9001 Cellular and molecular biology of lipoprotein metabolism - Tissue culture core
R01HL-23969-01 Surfactant synthesis by type II cells in vitro (rats)

TISSUE (CELL) CULTURE, EMBRYONIC-FETAL CELL LINES

R01HL-22266-01 Production of proteases by lung cells in culture (human, rodents, rabbits, sheep)

TISSUE (CELL) CULTURE, MIXED CULTURES

SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, HISTOCOMPATIBILITY TYPING, MLC
P01HL-06314-17 0050 Immunologic mechanisms in cardiovascular disease - Physiologic changes in lymphocytes (human, mice)
P01HL-06314-17 0054 Immunologic mechanisms in cardiovascular disease - Physiology of cell communications (mice, frogs, guinea pigs)
P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man
P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
P01HL-13108-09 0013 Clinical heart transplantation - Cardiomyopathic lymphocyte responsiveness to cultured endothelium
** P50HL-14212-07 0016 Correlated studies of pulmonary fibrosis - Role of pulmonary alveolar macrophages in fibrosis (human, rabbit)
P01HL-15832-06 0002 Chemical-structural predispositions to lung injury - Connective tissue in lung in development and repair of injury (human, rats, mice)
P50HL-17648-04 0028 Study of ischemic heart disease - Electrophysiology of sympathetic innervation in tissue culture
P01HL-18646-03 0003 Studies basic to heart transplantation - Host responses to xenografts (rodents, rabbits)

TISSUE (CELL) CULTURE, ORGAN CULTURE

** P01HL-03174-23 0012 Mechanisms of acute vascular reaction to injury - Human atherosclerotic plaque in organ culture
** P01HL-06285-18 0152 Cardiovascular-respiratory physiology and biochemistry - Diabetic microangiopathy by organ and tissue culture (human)
** R01HL-14706-07 Fetal hearts in organ culture (mice)
** P50HL-17648-04 0026 Study of ischemic heart disease - Control of muscle cell proliferation (organ culture)
** P50HL-17682-04 0018 Study of ischemic heart disease - Biochemistry of ischemia--Heart cell and organ culture (mice, rats, cattle)
** P50HL-17682-04 0023 Study of ischemic heart disease - Core cell and organ culture laboratory (mice)
R01HL-18711-03 Electrophysiology of heart cells (rats, chicks)
P01HL-19242-02 0003 Study of vascular smooth muscle - Vasoactive metabolites from vascular muscle and parenchymal tissue (animal)
R01HL-19668-03 Biochemistry of lung connective tissue (rats)
P01HL-19717-02 0001 Response of the lung to injury - Lung elastic tissue (animals)
R01HL-19752-03 Phospholipid synthesis by fetal lung in organ culture (rats)
** P01HL-20984-02 9002 Cellular mechanisms in cardiac hypertrophy - The heart in organ culture
R01HL-22040-01 Regulation of lysyl-cross-linking in vascular tissue (rats, turkeys)
R23HL-22959-01 Heart development in inherited cardiomyopathy (hamsters)

TISSUE COMPATIBILITY

SEE TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOIMMUNITY

TISSUE COMPATIBILITY-TRANSPLANT, HISTOCOMPATIBILITY TYPING

SEE ALSO BLOOD GROUPS
SEE ALSO BLOOD PLATELET TYPING
P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
M P01HL-06370-17 Cardiopulmonary and renal pathology research center
** P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
P01HL-09011-15 0001 A research and resource program in blood - Genetic markers of human blood and gene mapping (human)
R01HL-13987-04 Transplantation of the lung (dogs)
** R01HL-16119-05 Spleen and marrow allografts in hereditary anemia (mice)
P01HL-18646-03 0004 Studies basic to heart transplantation - Presensitization - Detection, incidence and clinical significance

TISSUE COMPATIBILITY-TRANSPLANT, HISTOCOMPATIBILITY TYPING, LEUKOCYTE TYPING

N01HB-62970-02 Collection, function and transfusion of granulocytes
N01HB-62973-05 Collection, function and transfusion of granulocytes
P01HL-06314-17 0059 Immunologic mechanisms in cardiovascular disease - Immunogenetic response to streptococcal antigens in man
P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)
P60HL-17265-04 0009 Community blood resource center support - Research - Developing granulocyte transfusion therapy (human, rabbit)
R01HL-19984-02 Blood pressure and immunogenetic factors in the young (human)
N01HR-62935-02 Histocompatibility antigens--Evolution of respiratory hypersensitivity (human)

TISSUE COMPATIBILITY-TRANSPLANT, HISTOCOMPATIBILITY TYPING, MLC

R01HL-08696-15 0011 Orthotopic heart transplantation - Transplantation immunology--Immunodepressive factor (human, dogs)
R01HL-08696-15 0014 Orthotopic heart transplantation - Transplantation immunology--Cardiac retransplantation (dogs)
** P01HL-13108-09 0010 Clinical heart transplantation - Serum factors inhibiting lymphocyte responses in MLC (human, bush babies)
R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)

TISSUE COMPATIBILITY-TRANSPLANT, IMPLANT

SEE ALSO PROSTHESIS
** R01HL-01803-23 0010 Arteriosclerosis, glomerulonephritis, rheumatic fever - Atherosclerosis induction--Graft rejection and hypercholesterolemia (rabbits)
P01HL-06312-17 0030 Surgical cardiology - Total artificial heart (calves)
P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
P01HL-13737-07 0002 Assisted circulation - U-shaped mechanical auxiliary ventricle (dogs)
P01HL-13737-07 0032 Assisted circulation - The dynamic aortic patch (human, dogs)
R01HL-13988-07 Elimination of reoperative cardiac pacemaker surgery (dogs)
R01HL-15247-05 Extending the life of implanted pacemakers (dogs, human)
M R01HL-17993-04 Ventricular dynamics from surgically inserted markers
** R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
R01HL-18639-03 Human anatomy for cardiac prostheses (human)
** R01HL-19173-03 Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits)
** R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R01HL-19425-03 Cardiac function in hypertrophy (dog)
R01HL-19898-03 Desferrioxamine therapy in thalassemia (dogs, rats, children)
R01HL-21001-01 Protein and thrombus deposition on vascular grafts
R01HL-21674-01 Development of automatic implanted defibrillator (dogs, cattle)
R01HL-22110-02 Healing complications in vascular grafting (dogs)
R01HL-22585-01 Plasma proteins adsorbed to artificial organs (human, rabbits)
R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces
N01HV-12065-16 Fabrication of implantable artificial heart devices (animals)
** N01HV-42969-06 Interactions of natural and chemically modified biopolymers with blood (dogs)
** N01HV-53006-06 Evaluation of model VII left ventricular assist device (human)
N01HV-62911-04 Vena cava ring tests of biomaterials in dogs
N01HV-72934-01 Development of a left heart assist blood pumps (human, cattle)

TISSUE COMPATIBILITY-TRANSPLANT, IMPLANT COMPATIBILITY

P01HL-11414-11 0027 Thrombosis and atherosclerosis program - Thermal memory wire filter to prevent pulmonary embolism (human, dogs)
R01HL-11418-09 Poly-diaminophosphazenes
R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
P01HL-13330-08 0034 Mechanical circulatory support - In vivo test and evaluation of left ventricular bypass pumps (human, cattle)
** P01HL-13330-08 0056 Mechanical circulatory support - Blood compatibility linings (calves)
R01HL-13426-09 Left ventricular bypass for myocardial infarction (cattle, human)
P01HL-13737-07 0029 Assisted circulation - Chronic left ventricular failure (human)
R01HL-13803-07 Advanced cardiac valvular and vascular prosthesis (dogs, baboons)
M P01HL-15195-04 Program project in biological materials*
P01HL-15195-04 0001 Program project in biological materials - Design and synthesis
P01HL-15195-04 0002 Program project in biological materials - Structural and surface characterization
P01HL-15195-04 0003 Program project in biological materials - Mechanical evaluation and fabrication
** P01HL-15195-04 0004 Program project in biological materials - Biological evaluation and surface interaction studies (dogs)
R01HL-15668-06 Extracorporeal respiratory gas exchange--A new approach (dogs)
** R01HL-16921-05 Synthetic hydrogels as blood tolerable materials
R01HL-17623-05 Initial events in thrombus formation on surfaces (human, rats)
R01HL-17973-04 Cultured aortic endothelial cells (human, cattle, dogs, swine)
R01HL-18084-03 Artificial heart and related problems (calves)
** P01HL-18576-03 0003 Thrombosis research program project - Biocompatible materials
R01HL-18644-03 Prosthesis for aortocoronary bypass (dogs, baboons)
** R01HL-19055-03 Platelet function during extracorporeal perfusion (human, mammals)
** R01HL-20073-02 Blood compatible materials by fluid perfusion (human, dogs)
** R01HL-20079-02 0003 Thromboresistant material - Blood surface interactions (human, cattle)
R01HL-20251-02 A novel approach to nonthrombogenic polymer surfaces (sheep, cattle)
** R01HL-20313-02 Surface-induced thrombosis--Modification of albumin variants (human, goat)
R01HL-20356-02 Development and evaluation of an artificial heart (calves)
** R23HL-21805-01 Tissue cell interactions with vascular prostheses (human, rats, mice)
** R01HL-23899-01 Flow and flexing at blood/biomaterial interfaces
N01HV-12017-15 Fabrication of grafted hydrogel coatings for plastic heart assist devices
N01HV-12054-14 Development of intimal linings (human, cattle)
** N01HV-12060-18 Tissue cultured endothelium for vascular prosthetic devices (human, animals)
N01HV-32913-11 Study electrodeless glow discharge for modifying polymer surface
N01HV-32917-08 Materials development and testing
** N01HV-32919-12 Material development and testing heparinization processes
** N01HV-32950-08 Blood compatible poly-electrolytes
** N01HV-32953-10 Materials compatible with blood (dogs)
** N01HV-32959-10 Development of materials for heart assist devices
** N01HV-42914-13 Solenoid left ventricular assist system (cattle)
N01HV-42960-07 Development and evaluation of cardiac prostheses (calves)
N01HV-42961-06 Evaluation of biomaterials in contact with blood (dogs)
N01HV-72933-01 Electrical energy transmission technique development (dogs)
N01HV-81388-20 Microfiber substrate for growth of intimal linings in circulatory assist devices

TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOANTIBODIES

SEE ALSO BLOOD GROUPS ISOANTIBODIES
SEE ALSO IMMUNITY, IMMUNOSUPPRESSION, ALLOANTISERA
** R01HL-08696-15 0011 Orthotopic heart transplantation - Transplantation immunology--Immunodepressive factor (human, dogs)
R01HL-20140-02 Glycoproteins of platelet membrane and platelet function (human)
R01HL-20856-02 Platelet transfusions--Usage and complications (human)
** R01HL-23654-01 Selected topics on blood transfusion (rabbits, human)

TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOANTIGENS

SEE ALSO BLOOD GROUPS ANTIGENS
** R01HL-01623-24 Antigens related to graft rejection (rabbits, rats)
R01HL-03919-20 The cell suface of streptococci (rats, human)
R01HL-08696-15 0001 Orthotopic heart transplantation - Transplantation immunology--Antithymocyte globulin (rabbits, monkeys)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-08696-15 0012 Orthotopic heart transplantation - Transplantation immunology--Modulation of donor antigenicity (dogs)
R01HL-08696-15 0014 Orthotopic heart transplantation - Transplantation immunology--Cardiac retransplantation (dogs)
P01HL-09011-15 0001 A research and resource program in blood - Genetic markers of human blood and gene mapping (human)
P01HL-09011-15 0012 A research and resource program in blood - Theoretical population genetics (human)
** P01HL-11310-12 0097 Mechanisms of cardiovascular disease - Structural-functional relationships of neuronal differential alloantigens (mice)
** P01HL-11310-12 0098 Mechanisms of cardiovascular disease - Protein chemistry of thy-1 and related synaptosomal proteins (mice)
P01HL-13108-09 0003 Clinical heart transplantation - Endomyocardial biopsy pathology
** P01HL-13108-09 0012 Clinical heart transplantation - Human T cell sheep erythrocyte receptors
P01HL-13108-09 0015 Clinical heart transplantation - Antithymocyte globulin analysis and clinical effects
R01HL-13629-08 Hemorrhagic diseases (human)
R01HL-16119-05 Spleen and marrow allografts in hereditary anemia (mice)
P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
P60HL-17269-04 0034 National heart and blood vessel research and demonstration center - Immunologic enhancement of cardiac allografts (mice)
P01HL-17417-05 0001 Experimental lung transplantation - Mechanisms and mediators of lung allograft rejection (dogs, mice)
R01HL-18526-03 Kinins and the human lung
M P01HL-18646-03 Studies basic to heart transplantation
P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
P01HL-18646-03 0002 Studies basic to heart transplantation - Detection of rejection (dogs)
** P01HL-18646-03 0004 Studies basic to heart transplantation - Presensitization--Detection, incidence and clinical significance
** P01HL-18646-03 0006 Studies basic to heart transplantation - Reduction or elimination of existing presensitization (human, animals)
P01HL-18646-03 0010 Studies basic to heart transplantation - Development and study of a heart preservation chamber (dogs, sheep)
R01HL-20140-02 Glycoproteins of platelet membrane and platelet function (human)
R01HL-21829-01 Etiology of obstructive airway disease in children (also monkeys)
R23HL-22448-01 Modulation of heart graft antigenicity by perfusion (rats)

TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOANTIGENS, LEUKOCYTE

** P01HL-13108-09 0002 Clinical heart transplantation - Preoperative immunologic studies of cardiac recipients
R01HL-14799-07 Cardiac heterotransplantation--Immunologic modification (mice, rat)
P01HL-16769-05 0007 Pathobiologic and host defense reactions in the lung - Immunogenetic factors in sarcoidosis (human)
P01HL-18646-03 0004 Studies basic to heart transplantation - Presensitization--Detection, incidence and clinical significance
R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)
R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)
** N01HR-62935-02 Histocompatibility antigens--Evolution of respiratory hypersensitivity (human)

TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOIMMUNITY

SEE ALSO BLOOD GROUP INCOMPATIBILITY
SEE ALSO TISSUE COMPATIBILITY-TRANSPLANT, HISTOCOMPATIBILITY TYPING
N01HB-62963-03 International bone marrow transplant registry
N01HB-62964-03 International bone marrow transplant registry
** R01HL-01623-24 Antigens related to graft rejection (rabbits, rats)
P01HL-06312-17 0017 Surgical cardiology - Cardiac transplantation (human)
P01HL-06312-17 0021 Surgical cardiology - Cardiac transplantation--Effect of immunosuppression on atherogenesis (monkeys)
P01HL-06312-17 0022 Surgical cardiology - Cardiac transplant--Experimental simultaneous heart and kidney transplant (dogs)
P01HL-06312-17 0028 Surgical cardiology - Coronary flow in the transplanted denervated heart (dogs)
P01HL-06312-17 0029 Surgical cardiology - Cardiac lymphatics in the transplanted heart (dogs)
** P01HL-06312-17 0039 Surgical cardiology - Cardiac transplantation--Biopsy correlates of rejection
P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
M P01HL-06370-17 Cardiopulmonary and renal pathology research center
** P01HL-06370-17 0001 Cardiopulmonary and renal pathology research center - The humoral and cellular mechanisms of allograft rejection (monkeys)
** P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
M R01HL-08696-15 Orthotopic heart transplantation
** R01HL-08696-15 0001 Orthotopic heart transplantation - Transplantation immunology--Antithymocyte globulin (rabbits, monkeys)
** R01HL-08696-15 0004 Orthotopic heart transplantation - Transplantation immunology--Avian antibody studies (chickens, rats, rabbits)
** R01HL-08696-15 0010 Orthotopic heart transplantation - Transplantation immunology--Total lymphoid irradiation (dogs, primates)
R01HL-08696-15 0011 Orthotopic heart transplantation - Transplantation immunology--Immunodepressive factor (human, dogs)
** R01HL-08696-15 0012 Orthotopic heart transplantation - Transplantation immunology--Modulation of donor antigenicity (dogs)
** R01HL-08696-15 0013 Orthotopic heart transplantation - Transplantation immunology--Cardiac heterotransplantation (rabbits, dogs)
** R01HL-08696-15 0014 Orthotopic heart transplantation - Transplantation immunology--Cardiac retransplantation (dogs)
R01HL-08696-15 0018 Orthotopic heart transplantation - Training in cardiac transplantation
** R01HL-08696-15 0019 Orthotopic heart transplantation - Suppressor cell stimulation (dogs, mice)
** R01HL-08696-15 0020 Orthotopic heart transplantation - Complete cardiopulmonary transplantation (dogs)
** P01HL-09011-15 0013 A research and resource program in blood - A quantitative study of immunological enhancement (mice)
** P01HL-12738-10 0130 Physiologic pharmacology and its clinical applications - Compatibility enhancement during cardiac allografting (dogs)
M P01HL-13108-09 Clinical heart transplantation
P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
** P01HL-13108-09 0002 Clinical heart transplantation - Preoperative immunologic studies of cardiac recipients
** P01HL-13108-09 0003 Clinical heart transplantation - Endomyocardial biopsy pathology
** P01HL-13108-09 0009 Clinical heart transplantation - B cell alloantigens in cardiac allograft compatibility (human)
** P01HL-13108-09 0010 Clinical heart transplantation - Serum factors inhibiting lymphocyte responses in MLC (human, bush babies)
** P01HL-13108-09 0011 Clinical heart transplantation - Humoral and cellular kinetics of allograft rejection (human)
** P01HL-13108-09 0012 Clinical heart transplantation - Human T cell sheep erythrocyte receptors
** P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulation in accelerated graft coronary atherosclerosis
** P01HL-13108-09 0015 Clinical heart transplantation - Antithymocyte globulin analysis and clinical effects
** P01HL-13108-09 0016 Clinical heart transplantation - Total lymphoid irradiation for immune response (dogs)
** P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
R01HL-13323-08 Intrarenal pressure and renal function (human, dogs)
P01HL-13738-08 0004 Cardiac assist devices and artificial hearts - Hematological evaluation of prosthetic materials (calves)
P01HL-13738-08 0005 Cardiac assist devices and artificial hearts - Development of new materials for artificial heart and assist devices (sheep, dog)
** R01HL-13987-04 Transplantation of the lung (dogs)
** R01HL-14799-07 Cardiac heterotransplantation--Immunologic modification (mice, rat)
R01HL-15124-05 Genesis of hypertension in renal disease (human, dogs)
R01HL-16119-05 Spleen and marrow allografts in hereditary anemia (mice)
** P01HL-16387-04 0006 The blood vessel and thrombogenesis - Mechanism of delayed vessel graft failure (dogs, rabbits)
R01HL-16642-05 Biochemistry and pathophysiology of plasma kallikrein (human, animals)
P60HL-17265-04 0006 Community blood resource center support - Research--Evaluation of platelet transfusions (human, dog)
P60HL-17265-04 0009 Community blood resource center support - Research--Developing granulocyte transfusion therapy (human, rabbit)
** P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
** P01HL-17417-05 0001 Experimental lung transplantation - Mechanisms and mediators of lung allograft rejection (dogs, mice)
** P01HL-17417-05 0004 Experimental lung transplantation - Methods for suppressing lung allograft rejection (dogs, mice)
R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
R01HL-18007-05 Neural mechanisms controling motor act of breathing (cats, human)
** R01HL-18186-04 Cardiac allografts in autologous radiation chimeras (rats, dogs)
** R01HL-18519-03 Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit)
M P01HL-18646-03 Studies basic to heart transplantation
** P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
** P01HL-18646-03 0002 Studies basic to heart transplantation - Detection of rejection (dogs)
** P01HL-18646-03 0006 Studies basic to heart transplantation - Reduction or elimination of existing presensitization (human, animals)
** P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
P01HL-18827-02 0006 Platelet vessel wall interactions in thrombogenesis - Platelet immune injury in man
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)
** R01HL-18936-02 Heart preservation and transplantation studies (rat)
R01HL-19333-03 Hematopoietic chimerism (mice, monkey)
R01HL-20354-02 Direct determination of oxygen tension in the clinical environment (human, dogs)
R01HL-22301-01 Immunogenetics of chronic pulmonary inflammation (mice)
** R23HL-22448-01 Modulation of heart graft antigenicity by perfusion (rats)
** R01HL-22456-01 Lipoproteins in bioregulation of the immune response (mice, human)

TISSUE COMPATIBILITY-TRANSPLANT, RETRANSPLANTATION

** R01HL-08696-15 0014 Orthotopic heart transplantation - Transplantation immunology--Cardiac retransplantation (dogs)
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)

TISSUE COMPATIBILITY-TRANSPLANT, TRANSPLANTATION

SEE ALSO BLOOD AND RE SYSTEM, BONE MARROW TRANSPLANTATION
SEE ALSO BLOOD AND RE SYSTEM, SPLEEN TISSUE (CELLS) TRANSPLANTATION
SEE ALSO BLOOD TRANSFUSION
SEE ALSO ENDOCRINOLOGY, ENDOCRINE TRANSPLANTATION
SEE ALSO HEART TRANSPLANTATION
SEE ALSO KIDNEY TRANSPLANTATION
SEE ALSO NEOPLASMS TRANSPLANTATION
SEE ALSO PREGNANCY, EMBRYO-FETUS TRANSPLANTATION
SEE ALSO SKIN TRANSPLANTATION
SEE ALSO TISSUE DONORS
SEE ALSO TISSUE PRESERVATION
** P01HL-06664-17 0042 Cardiopulmonary function in remediable vascular disease - Physiologic studies on vein grafts (dogs)
R01HL-19419-03 Cellular interactions with foreign materials (mammals)
R01HL-20554-02 Memory-alloy-filters for venous emboli (dogs)

TISSUE COMPATIBILITY-TRANSPLANT, TRANSPLANTATION AUTOLOGOUS

P01HL-06312-17 0015 Surgical cardiology - Internal mammary artery versus saphenous vein for coronary artery bypass (human)
P01HL-06312-17 0029 Surgical cardiology - Cardiac lymphatics in the transplanted heart (dogs)
P01HL-06835-17 0061 Cardiovascular disease - Studies in renal physiology (human, rats, dogs)
R01HL-11945-10 Synthesis of artificial lung and kidney systems (sheep, mice, swine)
** P01HL-13737-07 0033 Assisted circulation - Autologous bioprosthetic grafts for coronary artery bypass surgery (human, dogs)
R01HL-14126-17 Effect of function on grafts and implants of collagen (dogs, monkeys)
R01HL-15448-06 Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits)
P01HL-16387-04 0006 The blood vessel and thrombogenesis - Mechanism of delayed vessel graft failure (dogs, rabbits)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-17369-04 Arterial bypass surgery--Structure and metabolism (monkeys)
P01HL-17417-05 0004 Experimental lung transplantatien - Metheds for suppressing lung allegratt rejection (dogs, mice)
P01HL-17417-05 0005 Experimental lung transplantatien - Lung transplantation in bilateral emphysama (dogs)
P01HL-17417-05 0006 Experimental lung transplantation - Bronchial anastomotic problems and increases donor lung availability (dog)
** R01HL-18186-04 Cardiac allografts in autologous radiatien chimeras (rats, dogs)
R01HL-22110-02 Healing complications in vascular grafting (dogs)
N01HV-12060-18 Tissue cultured endethelium for vascular prosthetic devices (human, animals)

TISSUE COMPATIBILITY-TRANSPLANT, TRANSPLANTATION HETEROLOGOUS

R01HL-01623-24 Antigens related to graft rejection (rabbits, rats)
P01HL-06370-17 0013 Cardiopulmonary and renal pathology research center - Morphologic analysis of vascular prosthesis (human, dogs)
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
** R01HL-08696-15 0013 Orthotopic heart transplantation - Transplantation immunelegy--Cardiac heterotransplantation (rabbits, dogs)
R01HL-08696-15 0019 Orthotepic heart transplantation - Suppressor cell stimulation (dogs, mice)
R01HL-08696-15 0020 Orthotopic heart transplantation - Complete cardiopulmonary transplantation (degs)
P01HL-12373-10 0003 Cardiepulmenary physielogy and pathephysielogy - Myocardial functien in man
** R01HL-14799-07 Cardiac heteretransplantation--Immunelogic modification (mice, rat)
** P60HL-15160-07 0011 Center fer sickle cell disease - Study of human sickle cells in an animal model (rats)
** P01HL-18646-03 0003 Studies basic to heart transplantation - Host responses to xenografts (rodents, rabbits)
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunephysielogy and early detectien of rejection (dogs)
P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
R01HL-19246-03 Regression of cardiac hypertrophy--Myocardial and renal (human)
R01HL-20037-02 Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle)
N01HV-72939-01 Oevelop and evaluate left heart assist blood pumps (human, calves, pigs)

TISSUE COMPATIBILITY-TRANSPLANT, TRANSPLANTATION HOMOLOGOUS

R01HL-01623-24 Antigens related to graft rejection (rabbits, rats)
R01HL-01803-23 0010 Arteriosclerosis, glomerulonephritis, rheumatic fever - Atherosclerosis induction--Graft rejection and hypercholesterolemia (rabbits)
P01HL-06312-17 0017 Surgical cardiology - Cardiac transplantation (human)
P01HL-06312-17 0018 Surgical cardiology - Cardiac transplantation growth (calves)
P01HL-06312-17 0022 Surgical cardiology - Cardiac transplant--Experimental simultaneous heart and kidney transplant (dogs)
P01HL-06370-17 0001 Cardiopulmonary and renal pathology research center - The humoral and cellular mechanisms of allograft rejection (monkeys)
P01HL-06370-17 0004 Cardiopulmonary and renal pathology research center - Lymphocytes in graft rejection and immune surveillance (human)
R01HL-08696-15 0001 Orthotopic heart transplantation - Transplantation immunology--Antithymocyte globulin (rabbits, monkeys)
R01HL-08696-15 0004 Orthotopic heart transplantation - Transplantation immunology--Avian antibody studies (chickens, rats, rabbits)
R01HL-08696-15 0012 Orthotopic heart transplantation - Transplantation immunology--Modulation of donor antigenicity (dogs)
R01HL-08696-15 0014 Orthotopic heart transplantation - Transplantation immunology--Cardiac retransplantation (dogs)
R01HL-08696-15 0019 Orthotopic heart transplantation - Suppressor cell stimulation (dogs, mice)
R01HL-08696-15 0020 Orthotopic heart transplantation - Complete cardiopulmonary transplantation (dogs)
P01HL-09011-15 0013 A research and resource program in blood - A quantitative study of immunological enhancement (mice)
** P01HL-12738-10 0130 Physiologic pharmacology and its clinical applications - Compatibility enhancement during cardiac allografting (dogs)
M P01HL-13108-09 Clinical heart transplantation
** P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
** P01HL-13108-09 0002 Clinical heart transplantation - Preoperative immunologic studies of cardiac recipients
** P01HL-13108-09 0003 Clinical heart transplantation Endemyecardial biepsy pathelogy
** P01HL-13108-09 0008 Clinical heart transplantation - Physiology and pharmacology et the transplanted human haart
** P01HL-13108-09 0009 Clinical heart transplantation B cell alleantigens in cardiac allegraft compatibility (human)
** P01HL-13108-09 0010 Clinical haart transplantatien Sarum factors inhibiting lymphocyta respenses in MLC (human, bush babias)
** P01HL-13108-09 0011 Clinical heart transplantatien - Humoral and cellular kinetics ef allograft rejection (human)
** P01HL-13108-09 0012 Clinical haart transplantation - Human T cell sheep erythrocyte receptors
** P01HL-13108-09 0014 Clinical heart transplantation - Platelets and coagulatien in accelerated graft coronary atherosclerosis
** P01HL-13108-09 0015 Clinical heart transplantation - Antithymocyte globulin analysis and clinical effects
** P01HL-13108-09 0016 Clinical heart transplantatien - Total lymphoid irradiation for immune response (degs)
** P01HL-13108-09 0017 Clinical heart transplantation - Electrephysiolegy of the transplanted denervated human heart
** P01HL-13108-09 0018 Clinical heart transplantation - Electrephysiolegic studies of cardiac drugs in the denervated heart
** P01HL-13108-09 0019 Clinical heart transplantation - Effect of autonomic nervous system on arrhythmias (human)
** P01HL-13108-09 0020 Clinical heart transplantation - Autonomic neural studies in the denervated heart (human)
** P01HL-13108-09 0021 Clinical heart transplantation - Autenomic reflex regulatien of ventricular function (human)
** P01HL-13108-09 0022 Clinical heart transplantation - Studies on cardiac recepters (human)
** P01HL-13108-09 0023 Clinical heart transplantation - Adaptive mechanisms of the denervated heart (human)
** P01HL-13108-09 0024 Clinical heart transplantation - Response ef denervated heart to stress--Neninvasive (human)
R01HL-13323-08 Intrarenal pressure and renal function (human, degs)
R01HL-13987-04 Transplantatien of the lung (dogs)
R01HL-14126-17 Effect of function on grafts and implants of collagen (dogs, monkeys)
R01HL-14913-06 Hypertension--Genetic influence of kidney (rats)
R01HL-16119-05 Spleen and marrow allografts in hereditary anemia (mice)
P01HL-16387-04 0003 The blood vessel and thrombogenesis - Blood vessel healing (rabbits)
P01HL-16387-04 0006 The blood vessel and thrombogenesis - Mechanism of delayed vessel graft failure (dogs, rabbits)
P60HL-17269-04 0033 National heart and blood vessel research and demonstration center - Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease
** P60HL-17269-04 0034 National heart and blood vessel research and demonstration center - Immunologic enhancement of cardiac allografts (mice)
M P01HL-17417-05 Experimental lung transplantation
** P01HL-17417-05 0001 Experimental lung transplantation - Mechanisms and mediators of lung allograft rejection (dogs, mice)
** P01HL-17417-05 0003 Experimental lung transplantation - Methods for detecting lung allograft rejection (dogs)
P01HL-17417-05 0004 Experimental lung transplantation - Methods for suppressing lung allograft rejection (dogs, mice)
P01HL-17417-05 0005 Experimental lung transplantation - Lung transplantation in bilateral emphysema (dogs)
P01HL-17417-05 0006 Experimental lung transplantation - Bronchial anastomotic problems and increases donor lung availability (dog)
R01HL-17749-03 Adrenocortical factors in human hypertension (human)
R01HL-17902-04 Mammalian renal microcirculation (hamsters)
R01HL-17947-04 Experimental renal and neurogenic hypertension (human, animals)
R01HL-17993-04 0002 Ventricular dynamics from surgically inserted markers - Left ventricle function in human cardiac allograft
** R01HL-18186-04 Cardiac allografts in autologous radiation chimeras (rats, dogs)
M P01HL-18646-03 Studies basic to heart transplantation
** P01HL-18646-03 0001 Studies basic to heart transplantation - Individualized regulation of immunosuppression (dogs, rats)
P01HL-18646-03 0002 Studies basic to heart transplantation - Oetection of rejection (dogs)
P01HL-18646-03 0004 Studies basic to heart transplantation - Presensitization--Oetection, incidence and clinical significance
P01HL-18646-03 0008 Studies basic to heart transplantation - Immunophysiology and early detection of rejection (dogs)
** P01HL-18646-03 0009 Studies basic to heart transplantation - Pathologic aspects of cardiac allograft rejection (sheep, dogs)
P01HL-18646-03 0010 Studies basic te heart transplantatien Developmant and study of a heart presarvation chamber (dogs, sheep)
P50HL-18828-03 0006 Specialized center ot research in thrembesis Etiolegy and pathegenesis ef atheresclerosis (rabbit, monkey, rat, human)
R01HL-18936-02 Heart preservation and transplantation studies (rat)
R01HL-22110-02 Healing complicatiens in vascular grafting (dogs)

TISSUE COMPATIBILITY-TRANSPLANTATION RESOURCES, REFERRAL CENTERS AND REGISTRIES

** N01HB-62963-03 Internatienal bone marrow transplant registry
** N01HB-62964-03 International bone marrew transplant registry
N01HV-12054-14 Oevelopment of intimal linings (human, cattle)

TISSUE CULTURE

SEE TISSUE (CELL) CULTURE*

TISSUE DONORS

SEE ALSO BLOOD TRANSFUSION, BLOOD DONORS
P01HL-06312-17 0022 Surgical cardiology - Cardiac transplant--Experimental simultaneous heart and kidney transplant (dogs)
P01HL-06314-17 0061 Immunolegic mechanisms in cardiovascular disease - Role of viruses in cardiovascular and renal disease (human, mice)
R01HL-08696-15 0004 Orthotopic heart transplantation - Transplantation immunology--Avian antibody studies (chickens, rats, rabbits)
** R01HL-08696-15 0012 Orthetopic heart transplantation - Transplantation immunelegy--Modulation of donor antigenicity (dogs)
R01HL-08696-15 0013 Orthetopic heart transplantation - Transplantation immunology--Cardiac heterotransplantation (rabbits, dogs)
R01HL-08696-15 0020 Orthetepic heart transplantatien - Complete cardiepulmonary transplantation (degs)
P01HL-12738-10 0130 Physiologic pharmacology and its clinical applicatiens - Compatibility enhancement during cardiac allografting (dogs)
M P01HL-13108-09 Clinical heart transplantation
P01HL-13108-09 0001 Clinical heart transplantation - Therapy and prognosis (human)
** P01HL-13108-09 0002 Clinical heart transplantation - Preoperative immunologic studies of cardiac recipients
** P01HL-13108-09 0009 Clinical heart transplantation - B cell alloantigens in cardiac allograft compatibility (human)
R01HL-14913-06 Hypertension--Genetic influence of kidney (rats)
P01HL-18646-03 0003 Studies basic to heart transplantation - Host responses to xenografts (rodents, rabbits)
P01HL-18646-03 0004 Studies basic to heart transplantation - Presensitization--Oetection, incidence and clinical significance
R23HL-22448-01 Modulation of heart graft antigenicity by perfusion (rats)

TISSUE FACTOR (TISSUE THROMBOPLASTIN)

SEE BLOOD COAGULATION, THROMBOPLASTIN

TISSUE MOSAICISM

** P01HL-03174-23 0006 Mechanisms of acute vascular reaction to injury - Atherosclerotic plaque studies using mosaic analysis (human)
R01HL-13987-04 Transplantation of the lung (dogs)
** R01HL-18186-04 Cardiac allografts in autologous radiation chimeras (rats, dogs)
** R01HL-19333-03 Hematopoietic chimerism (mice, monkey)
P01HL-20993-02 0003 Population dynamics of arterial cells in atherogenesis - Clonal phenomena in atherogenesis (human, hares)

TISSUE PRESERVATION

SEE ALSO BLOOD PRESERVATION
SEE ALSO CARDIOVASCULAR TISSUE PRESERVATION
SEE ALSO HEART PRESERVATION
SEE ALSO KIDNEY PRESERVATION
SEE ALSO RESPIRATORY SYSTEM PRESERVATION, LUNG PRESERVATION
SEE ALSO TISSUE RESOURCES, REGISTRIES
** P01HL-06312-17 0033 Surgical cardiology - Studies in cryopreservations (rats)
R01HL-08696-15 0012 Orthotopic heart transplantation - Transplantation immunology--Modulation of donor antigenicity (dogs)
R01HL-15520-06 Total blood replacement by fluorocarbons and polyols (rats)
N01HV-12054-14 Oevelopment of intimal linings (human, cattle)

TISSUE RESOURCES, REGISTRIES

SEE ALSO BLOOD PRESERVATION, BLOOD BANKS, CENTERS-RESOURCES-REGISTRIES
SEE ALSO TISSUE (CELL) CULTURE, CELL CULTURE COLLECTIONS BANKS AND REGISTRIES
** R01HL-05694-20 Functional pathology of cardiovascular disease (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** N01HR-62930-03 Lung cell resource facility
N01HR-62943-05 Nocturnal oxygen therapy in chronic hypoxic lung disease (human)

TISSUE RESPIRATION
SEE RESPIRATION INTERNAL

TISSUE SPACES
SEE BODY FLUIDS, TISSUE SPACES

TISSUE SUPPORTING FRAMES
SEE BIOMATERIALS, TISSUE SUPPORTING FRAMES

TOADS AND FROGS
SEE AMPHIBIANS, ANURANS*

TOBACCO AND TOBACCO PRODUCTS
SEE CONSUMER PRODUCTS, TOBACCO AND TOBACCO PRODUCTS

TOCOPHEROL DEFICIENCY
SEE NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS E

TOCOPHEROLS
SEE VITAMIN E

TOFRANIL
SEE AZEPINES, IMIPRAMINE

TOLAZOLINE
SEE IMIDAZOLES, TOLAZOLINE

TOLBUTAMIDE
SEE SULFONYLUREA, TOLBUTAMIDE

TOLERANCE
SEE CARBOHYDRATE BALANCE, GLUCOSE TOLERANCE
SEE DRUGS TOLERANCE
SEE IMMUNITY, IMMUNOLOGICAL UNRESPONSIVENESS

TOMOGRAPHY
SEE RADIOGRAPHY, TOMOGRAPHY*

TOMOGRAPHY, RADIOISOTOPE
SEE RADIOAUTOGRAPHY, RADIOISOTOPE TOMOGRAPHY*

TOOTH ERUPTION
SEE DENTAL DEVELOPMENT

TOXEMIA, MICROBIAL TOXINS
SEE BLOOD TOXICOLOGY, BACTEREMIA-SEPTICEMIA

TOXEMIAS OF PREGNANCY
SEE PREGNANCY TOXEMIAS AND HYPERTENSION

TOXIC MECHANISMS AND REACTIONS IN HYPERSENSITIVITY
SEE HYPERSENSITIVITY, TOXIC REACTIONS AND MECHANISMS IN HYPERSENSITIVITY

TOXIC REACTIONS AND MECHANISMS IN IMMUNOLOGY
SEE IMMUNOLOGY, TOXIC REACTIONS AND MECHANISMS IN IMMUNOLOGY

TOXIC SHOCK
SEE INJURIES, SHOCK, TOXIC

TOXICANT METABOLISM
SEE TOXICOLOGY, TOXICANT METABOLISM

TOXICANT SCREENING
SEE TOXICOLOGY, TOXICANT SCREENING

TOXICOLOGY
SEE ALSO AIR POLLUTION
SEE ALSO BLOOD TOXICOLOGY
SEE ALSO ENVIRONMENTAL HEALTH, CONTAMINATION (GENERAL)
SEE ALSO HYPERSENSITIVITY, TOXIC REACTIONS AND MECHANISMS IN HYPERSENSITIVITY
SEE ALSO INJURIES, SHOCK, TOXIC
SEE ALSO PESTICIDES BIOLOGICAL EFFECTS (GENERAL)
R01HL-07502-13 Phytochemistry of the genus thalictrum (dogs, plants)
** R01HL-09911-12 Hormonal and dietary modification of NaCl toxicity (rats) mice)
R01HL-13399-16 Heme protein structure and function (human, horse, plants, bacteria)
P01HL-16117-05 0007 Ion movements and membranes in cardiovascular control - Physiological and molecular properties of ionophores (dogs, rabbits)
R01HL-16643-02 Fluorocarbon emulsions as artificial blood (animals)
P50HL-19156-02 0003 Pulmonary SCOR--Chronic diseases of airways - Powdered tantalum to study airway morphology and mucociliary clearance (human)

TOXICOLOGY, ANIMAL POISONS
SEE ALSO CARDIAC GLYCOSIDES AGLYCONES, BUFADIENOLIDES
R01HL-22201-01 Pharmacology and chemistry of nudibranch toxins (guinea pigs, rats, mice)

TOXICOLOGY, ANIMAL POISONS, ARTHROPOD
SEE ALSO TOXICOLOGY, ANIMAL POISONS, INSECTS BITES STINGS VENOMS
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)

TOXICOLOGY, ANIMAL POISONS, ARTHROPOD, SPIDER
** R01HL-22201-01 Pharmacology and chemistry of nudibranch toxins (guinea pigs, rats, mice)

TOXICOLOGY, ANIMAL POISONS, BATRACHOTOXIN
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)

TOXICOLOGY, ANIMAL POISONS, INSECTS BITES STINGS VENOMS
** P01HL-10342-13 0028 The integrated function of respiration and circulation - Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs)

TOXICOLOGY, ANIMAL POISONS, REPTILE
R01HL-03424-21 Formation and properties of prothrombin derivatives (human, animals)
P01HL-16251-06 0010 Membrane-bound enzymes in heart and other tissues - Reversible activation of L-amino acid oxidase (snakes)
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
R01HL-19538-03 Synthesis of potential antihypertensive agents
R01HL-20199-02 Drug-induced alterations in infarct size in the rat
** R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)
** R01HL-22996-01 Venom proteases--Action on plasma protease inhibitors (human)

TOXICOLOGY, ANIMAL POISONS, TETRODOTOXIN
P01HL-12738-10 0080 Physiologic pharmacology and its clinical applications - Electrophysiology of cardiac muscle in the mitral valve (monkeys)
R01HL-13306-08 Pharmacological control of cardiac membrane currents (cattle, rabbits)
R01HL-13339-08 Pharmacology of developing cardiac tissues (chick embryo)
R01HL-16567-04 Differentiation of the heart-cell membrane (mice, chick)
R01HL-21371-02 Energy loss microanalysis of myocardial cations
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)
R01HL-22568-01 pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats)

TOXICOLOGY, ANIMAL POISONS, VENOMS
** P01HL-06350-17 0020 Hemostasis research program project - Structure and function of coagulant venom proteases
P01HL-06370-17 0014 Cardiopulmonary and renal pathology research center - Quantitative morphology in cardiac disease (human, rats, dogs)
R01HL-10582-12 Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom)
P01HL-11310-12 0096 Mechanisms of cardiovascular disease - Complement chemistry and biology (human, rabbits)
R01HL-16233-05 Molecular cardiology of MOP-induced left ventricular failure (dogs)
P01HL-16411-04 0001 Blood systems in coagulation and vessel disease - Molecular studies of the role of complement in blood coagulation (human, rabbits)
P01HL-16769-05 0002 Pathobiologic and host defense reactions in the lung - Pathogenesis of complement dependent injury to the lungs (rabbits)
P01HL-18576-03 0007 Thrombosis research program project - Relationships between coagulability and thrombosis (human, animals)
R01HL-21975-01 Studies on normal and abnormal factor IX (human, dogs, cows)
** R01HL-22996-01 Venom proteases--Action on plasma protease inhibitors (human)

TOXICOLOGY, CYTOTOXICITY
SEE ALSO IMMUNOLOGY, ANTIBODIES, AGGLUTININS
R01HL-03919-20 The cell suface of streptococci (rats, human)
** P01HL-06314-17 0066 Immunologic mechanisms in cardiovascular disease - Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice)
** P01HL-06370-17 0006 Cardiopulmonary and renal pathology research center - Chemical basis of ultrastructural changes in disease (rats)
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)
P01HL-13108-09 0011 Clinical heart transplantation - Humoral and cellular kinetics of allograft rejection (human)
P01HL-13108-09 0012 Clinical heart transplantation - Human T cell sheep erythrocyte receptors
P01HL-13108-09 0013 Clinical heart transplantation - Cardiomyopathic lymphocyte responsiveness to cultured endothelium
R01HL-13645-11 Tryptophan-induced pulmonary emphysema (cattle, goats, rabbits)
P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
P50HL-14212-07 0013 Correlated studies of pulmonary fibrosis - Mechanism of beryllium pathogenicity in the lung (human, rabbit, guinea pig)
** P50HL-15061-07 0012 Response of lung to injury - Hyperbaric oxygen, carbon monoxide, and ozone or peroxide toxicity (rats)
P01HL-16748-05 0002 Cellular and immunological basis of pulmonary diseases - Immunological function of alveolar macrophages (rabbits, sheep, mice)
P01HL-16769-05 0003 Pathobiologic and host defense reactions in the lung - Pathobiologic mechanisms of delayed sensitivity reactions in the lung (animals)
R01HL-17404-05 Immunologic mechanisms in heart disease (mice)
R01HL-17826-04 Oxygen delivery to tissue (rat, dog)
R01HL-17844-04 Artificial blood substitutes--02-binding iron chelates (human, mammals)
R01HL-18259-03 Controlled intratissue release of prostaglandins
R01HL-18731-02 RES stimulating materials in experimental shock (dogs)
R01HL-19234-03 Streptococci and heart--Cell-mediated cross-reaction (mice)
R01HL-19333-03 Hematopoietic chimerism (mice, monkey)
** R23HL-19584-01 Alveolar macrophage responses to toxic particle exposure (guinea pigs, human)
R01HL-20125-02 Cyclic nucleotides and alveolar macrophage activation (rabbits)
R01HL-20533-09 Pathogenesis of rheumatic fever (human, rabbits)
** P01HL-20993-02 0008 Population dynamics of arterial cells in atherogenesis - Angiotoxicity of cholesterol oxidation in atherogenesis (rabbits)
R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)
R23HL-21116-02 Mechanisms of membrane and tissue damage in lung (dogs, rabbits)
** R23HL-21327-02 Molecular mechanisms of chemical myocardiopathies (rats)
P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)
P01HL-22602-01 0003 Pathophysiology of the endothelium - Mechanisms of endothelial proliferation (human, animals)
R01HL-23631-01 Immunogenetic factors in allergic respiratory diseases (human)

TOXICOLOGY, ENVIRONMENTAL
SEE ALSO AIR POLLUTION
SEE ALSO PHYSICAL AND/OR CHEMICAL AGENTS INTERACTION (BIOLOGICAL AND ECOLOGICAL)
SEE ALSO PHYSICAL AND/OR CHEMICAL AGENTS INTERACTION (BIOLOGICAL AND ECOLOGICAL), POLLUTANTS INTERACTION
P01HL-06370-17 0006 Cardiopulmonary and renal pathology research center - Chemical basis of ultrastructural changes in disease (rats)
P01HL-08214-15 0005 Chemical and biological properties of lipids - Metabolism of lipids in animals
P50HL-14136-07 0016 Pulmonary SCOR--Airways obstructive diseases - Environmental factors in airways obstructive diseases (human)
** P50HL-14212-07 0013 Correlated studies of pulmonary fibrosis - Mechanism of beryllium pathogenicity in the lung (human, rabbit, guinea pig)
P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
** P50HL-15092-07 0010 Immune and fibrotic response to occupational environments - Characterization of toluene diisocyanate in industrial environments
** P50HL-15389-07 0009 Pulmonary SCOR--Hypersensitivity pneumonitis - Clinical studies--Pulmonary mycotoxicosis
** P50HL-15389-07 0013 Pulmonary SCOR--Hypersensitivity pneumonitis - Animal model--Pulmonary mycotoxicosis (rabbit, guinea pig)
** R01HL-16029-05 Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke
** R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)
** P50HL-19170-02 0005 Harvard pulmonary SCOR--Chronic diseases of the airways - Pulmonary toxicology of plastics intermediates and pyrolysis products (animal)
** R23HL-19584-01 Alveolar macrophage responses to toxic particle exposure (guinea pigs, human)
** R01HL-19720-03 Evaluation of anti-fibrotic agents in pulmonary fibrosis (rats)
R01HL-21008-02 Effect of pollutants on organotypic lung cultures (rats)
R01HL-21009-02 Effects of air pollutants on lung cells in culture (rats)

TOXICOLOGY, GAS POISONING, CARBON MONOXIDE
P01HL-10342-13 0011 The integrated function of respiration and circulation - Control of respiration 1--Peripheral chemoreceptor studies (cats)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

** P01HL-10342-13 0014 The integrated function of respiration and circulation - Oxygen and carbon monxide transfer (humanp dogs, sheep)
P01HL-10342-13 0024 The integrated function of respiration and circulation - Cytochrome P450 and physiological response to hypoxia (rats)
P01HL-10342-13 0026 The integrated function of respiration and circulation - Control of respiration--Characterization of the aortic body (cats)
** P01HL-10342-13 0027 The integrated function of respiration and circulation - Control of respiretion--Cardiovascular adjustment to hypoxia and carbon monoxide
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, memmels)
P50HL-15061-07 0012 Response ot lung to injury - Hyperbaric oxygen, cerbon monoxide, and ozone or peroxide toxicity (rats)
R01HL-15520-06 Total blood replacement by fluorocarbons and polyols (rets)
R01HL-23224-01 Hypoxie and pulmonary vescular smooth muscle (rat, cat)

TOXICOLOGY, GAS POISONING, SMOKE INHALATION
** R23HL-22895-01 Smoke inhelation--Biochemical and celluler responses (rabbits, bacteria)

TOXICOLOGY, MYCOTOXINS
SEE ALSO ALKALOIOS, ERGOT
** P50HL-15389-07 0009 Pulmonery SCOR--Hypersensitivity pneumonitis - Clinicel studies--Pulmonary mycotoxicosis
** P50HL-15389-07 0013 Pulmonery SCOR--Hypersensitivity pneumonitis - Animel model--Pulmonary mycotoxicosis (rabbit, guinea pig)

TOXICOLOGY, MYCOTOXINS, CYTOCHALASIN
R01HL-10503-13 Cardiac ion transport end ultrastructure (rats, guinea pigs, rebbits)
P01HL-15832-06 0012 Chemical-structural predispositions to lung injury - Contractile structures end contractility in cells of lung respiratory trect
P01HL-18576-03 0001 Thrombosis research program project - Platelet demege from physical forces end artificial surfaces (humen)
P01HL-18708-03 0007 Oxygen, energy end contractility in cardiac tissue - Surfaces, energy requirements, end contractile proteins of cardiec cell in vitro
R01HL-20643-02 Analysis of heart cell contrection (rets)
R01HL-21329-02 Beta-receptor reguletion end cerdiec sites of drug ection (cat, guinee pig, ret)
R01HL-22783-01 Hemodynamic induction of intimel fibromusculer lesion
R01HL-23010-01 Control and mechanism of pletelet aggregation (humen)

TOXICOLOGY, PLANT POISONING, LATHYRISM
R01HL-18918-03 Cherecterization of lung elastins (rat, rabbit, chicken, Rhesus)
R01HL-22208-02 Elestin structure, fibrogenesis end diseese (chickens, rabbits)

TOXICOLOGY, PLANT POISONS, GRAYANOTOXINS
R01HL-22239-01 The molecular basis of electrical excitability (chick embryos, rats)

TOXICOLOGY, PLANT POISONS, PICROTOXIN
R01HL-22715-01 Neural integretion of the cardiovesculer reflexes (dogs))

TOXICOLOGY, POISON CONTROL AND PREVENTION
** R01HL-21115-01 Prevention of 02 toxicity with superoxide dismutese (rats)

TOXICOLOGY, PROTOZOAL TOXINS, SAXITOXIN
R01HL-22239-01 The moleculer basis of electrical excitebility (chick embryos, rets)

TOXICOLOGY, TOXICANT METABOLISM
R01HL-19720-03 Evaluetion of enti-fibrotic egents in pulmonary fibrosis (rats)

TOXICOLOGY, TOXICANT METABOLISM, DETOXICATION
SEE ALSO METAL COMPLEXES, LIGANOS, CHELATING AGENTS
** P01HL-08682-15 0019 Regulation of the cardiovasculer system - Hepetic immunophysiology and host-defense in shock (rat, dog, human)
P01HL-16748-05 0004 Cellular and immunologicel basis of pulmonary diseases - Celluler and immunological processes in pulmonery defense systems

TOXICOLOGY, TOXICANT SCREENING
R01HL-08696-15 0019 Orthotopic heert trensplantetion - Suppressor cell stimuletion (dogs, mice)
R01HL-17479-04 Blood storage--The production of cardiotoxic material (dogs, humen, swine)
** P50HL-19170-02 0005 Harverd pulmonery SCOR--Chronic diseases of the airweys - Pulmonary toxicology of plestics intermediates and pyrolysis products (enimel)

TOXICOLOGY STUDY SECTION
** R01HL-14127-16 Methemoglobinemia and antihypertensive drugs (cats, mice, rats)

** R01HL-16029-05 Bio organic chemistry of ozone, nitrogen dioxide and tobacco smoke
** R01HL-18028-03 Absorption of nonvolatile compounds from the lung
** R01HL-18163-04 Red cell membrane effects due to oxidizing agents
** R01HL-20622-02 Pulmonary uptake and accumulation of drugs (rabbits, rets)
** R01HL-21008-02 Effect ot pollutants on organotypic lung cultures (rats)
** R01HL-21009-02 Effects ot air pollutants on lung cells in culture (rats)
** R01HL-21115-01 Prevention of 02 toxicity with superoxide dismutase (rats)
** R01HL-22201-01 Pharmacology and chemistry of nudibranch toxins (guinea pigs, rets, mice)
** R01HL-22259-01 Modification of susceptibility to oxygen poisoning (rats)
** R01HL-22875-01 Crotalase--Chemistry, physiology, clinical potential (rats, rabbits)
** R01HL-22996-01 Venom proteases--Action on plasma proteese inhibitors (human)

TOXICOSIS, THYROTOXICOSIS
SEE THYROIO GLANO OISOROERS, HYPERTHYROIOISM

TOXINS
SEE ALSO BLOOO TOXICOLOGY, HEMOTOXINS
SEE ALSO IMMUNOLOGY, ANTIGENS
SEE ALSO IMMUNOLOGY, ANTIGENS BACTERIAL
SEE ALSO IMMUNOLOGY, ANTITOXINS
SEE ALSO KIONEY TOXINS, NEPHROTOXINS
SEE ALSO LIVER OISOROERS, TOXIC LIVER OISOROERS, HEPATOTOXINS
SEE ALSO NEUROTOXINS
SEE ALSO RESPIRATORY OISOROERS, RESPIRATORY SYSTEM TOXINS
SEE ALSO TOXICOLOGY, ANIMAL POISONS
SEE ALSO TOXICOLOGY, MYCOTOXINS
** P01HL-11310-12 0102 Mechenisms of cerdiovesculer disease - Cerdiac membrene end ion mobility (dogs)
R01HL-15013-07 Lung oxidative metebolism and energy production (rodents, rabbits)
R01HL-15958-06 X-rey diffraction enalysis of thrombin and neurotoxin
P01HL-16118-06 0004 Study of emphyseme - Metebolic activity of pulmonary connective tissue (humen, hemsters)
R01HL-18097-04 Pathogenesis of ecute renal feilure (rats)
R01HL-22562-02 Mechanism of cardiec action potentiel propagation (tunicates)

TOXINS BACTERIAL
SEE IMMUNOLOGY, ANTIGENS BACTERIAL, BACTERIAL TOXINS (GENERAL)

TOXINS HEMOTOXINS
SEE BLOOO TOXICOLOGY, HEMOTOXINS

TOXINS HEPATOTOXINS
SEE LIVER DISOROERS, TOXIC LIVER OISOROERS, HEPATOTOXINS

TOXINS MYCOTOXINS
SEE TOXICOLOGY, MYCOTOXINS

TOXINS NEPHROTOXINS
SEE KIONEY TOXINS, NEPHROTOXINS

TOXINS NEUROTOXINS
SEE NEUROTOXINS

TPNH-DIAPHORASE
SEE OXIOOREOUCTASES, NAO(P)H OEHYOROGENASE (QUINONE)

TRA
SEE EYE, TRABECULAR MESHWORK

TRACE ELEMENTS
SEE CHEMICALS (GENERAL), ELEMENTS, TRACE ELEMENTS

TRACE ELEMENTS AND MINERALS IN THE DIET
SEE NUTRITION, OIETARY CONSTITUENTS, OIETARY TRACE ELEMENTS ANO MINERALS

TRACHEA
SEE RESPIRATORY SYSTEM, TRACHEA

TRACHOMA AGENT
SEE CHLAMYOIA, TRACHOMA AGENT

TRACKING TASK
SEE PSYCHOMOTOR FUNCTION, TRACKING TASK

TRACKING VISUAL
SEE PSYCHOMOTOR FUNCTION, VISUAL TRACKING

TRAINING
SEE EOUCATION, TRAINING

TRAINING, RELAXATION
SEE PSYCHIC ACTIVITY LEVEL, RELAXATION

TRAINING AIDS IN EDUCATION
SEE EDUCATION, AUDIOVISUAL ANO OTHER TRAINING AIDS

TRAINING LEVEL
SEE EOUCATION, TRAINING LEVEL

TRANQUILIZERS
SEE PSYCHOPHARMACOLOGICAL AGENTS, TRANQUILIZERS

TRANSACETYLASE
SEE TRANSACYLASES

TRANSACYLASES
P01HL-06308-18 0040 Mechanisms and therapy ot circulatory disease Metabolism and fatty acid utilization--Heart electrical stability (rats, dogs)
P01HL-06835-17 0015 Cardiovascular disease - Plasma cholesterol esterification in canine atherosclerosis
R01HL-12869-09 Arterial metabolism, diabetes end etherogenesis (rats, rebbits)
R01HL-14781-08 Lipid deposition in mammalian cells (mice)
P01HL-16137-05 0004 Alveolar biology - Subcellular processes and controls in the surfactant system (animals)
R01HL-17332-04 Use ot the gut for therapy ot coronary artery disease (mammals)
R01HL-18181-04 Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits)
R01HL-18219-04 Regulation of cholesterol metabolism (rats)
R01HL-18938-03 Pulmonary fatty ecid end phospholipid metabolism (rets)
R01HL-19010-03 Metabolism and cell biology ot lung surfactant system (rabbits, sheep)
P01HL-20948-02 0001 Molecular basis of cholesterol metabolism - Biochemical and ultrastructural characterization of LOL in humen fibroblasts
P01HL-20948-02 0002 Molecuiar basis of cholesterol metabolism - LOL pathway in cell lines with informetive properties other than fibroblasts
R01HL-21246-02 Roles of cholesterol and its metabolic regulation (CHO cell mutants)

TRANSACYLASES, ACETYL COA TRANSACETYLASE
R01HL-18089-04 Fetty acid metebolism in heert and its reguletion (swine, rats)

TRANSACYLASES, CHOLINE TRANSACYLASE
P01HL-14388-07 0185 Regulation of the circulation in pethological states - Reflex control of venous tone (humen, rebbits, dogs)
P01HL-14388-07 0202 Regulation of the circulation in pethologicel states - Oevelopment of hypertension in spontaneously hypertensive rats
** P01HL-14388-07 0211 Reguletion of the circulation in pathological stetes - Choline acetyltransferase activity (rats)
P01HL-14388-07 0213 Regulation of the circulation in pathological stetes - Regulation of the heert end peripheral circulation in heert failure
R01HL-14832-06 Myocerdial cells--Autonomic end rhythmic mechanisms (chick embryo, rets)
R01HL-16066-05 Studies on neurogenic control of the circuletion (human, dogs)
P01HL-18974-03 0009 Experimentel neurogenic hypertension program - Biochemistry of brain tyrosine hydroxyiese (rats)
R01HL-20768-02 Mechanisms of circuletory reguletion in heert failure (guinea pigs)

TRANSACYLASES, LECITHIN-CHOLESTEROL TRANSESTERASES
** R01HL-10642-18 Plasme cholesterol metabolism (humen, mececa)
R01HL-14111-07 Cholesteryl esters in membrenes end etherosclerosis (humen, swine)
P50HL-14197-07 0005 Support for center of research on erteriosclerosis - Lipoprotein biosynthesis end degradation in vivo end in vitro (human, enimal)
** P50HL-14237-07 0002 Support for arteriosclerosis center - Interections of lipoprotein particles with vasculer surfece (human, ret)
P50HL-14237-07 0004 Support for erteriosclerosis center - Synthesis, secretion of normal, ebnormal plesma lipoproteins (rodents, monkeys)
P50HL-15062-07 0001 Study of lipoproteins, artery wall, end atherosclerosis - Structure and molecular interactions of serum lipoproteins (humen, monkey)
P50HL-15062-07 0008 Study of lipoproteins, ertery well, and atherosclerosis - Lipid modifying enzymes (human, monkey)
P50HL-15062-07 0009 Study of lipoproteins, ertery wall, and atherosclerosis - Piasma lipoprotein biosynthesis (Rhesus monkeys)
P50HL-15062-07 0013 Study of lipoproteins, artery wall, end etherosclerosis - Redioimmunoassay of apolipoproteins (human, monkeys)
** R01HL-15263-06 Lecithin--Cholesterol acetyltransterase (humen, rabbits)
P60HL-17269-04 0015 National heert and blood vessel reseerch and demonstration center - Lipoprotein metabolism leboratory (human)
** R01HL-17597-05 Role of plasma lipoproteins in etherosclerosis (swine, human)
** R01HL-19250-03 Mechanism of plasma cholesterol esterificetion (human)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

P01HL-22633-01 0002 Cellular and molecular biology of lipoprotein metabolism - Sterol metabolism in tissue culture cells
R01HL-23945-06 Pathologic effects on cells of modified lipoproteins (rats, human)

TRANSAMIDINASES
SEE AMIOINOTRANSFERASES

TRANSAXIAL TOMOGRAPHY
SEE RADIOGRAPHY, SCANNING, CAT*

TRANSCARBAMYLASES
R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)

TRANSCARBAMYLASES, ASPARTATE TRANSCARBAMYLASE
RD1HL-21483-01 Electronic, thermodynamic and kinetics of hemoglobin

TRANSCENDENTAL MEDITATION
SEE PSYCHIC ACTIVITY LEVEL, TROPHOTROPIC STATE, MEDITATION

TRANSCORTIN
SEE GLOBULINS, CORTICOSTEROIO BINOING GLOBULIN

TRANSCRIPTION
SEE GENETICS, GENETIC REGULATION, GENETIC INOUCTION-REPRESSION-DEREPRESSION, TRANSCRIPTION

TRANSDUCING VIRUSES
SEE VIRUS CHARACTERISTICS, TRANSFORMING VIRUSES

TRANSDUCTION (GENETIC)
SEE GENETICS, SOMATIC CELL ANO TRANSFORMATION, TRANSDUCTION

TRANSEPITHELIAL SHUNT
SEE BIOLOGICAL TRANSPORT, MEMBRANE PERMEABILITY ANO TRANSPORT

TRANSFER (LEARNING)
SEE PSYCHOLOGY, LEARNING, TRANSFER

TRANSFER FACTOR (HYPERSENSITIVITY)
SEE HYPERSENSITIVITY, TRANSFER FACTOR (HYPERSENSITIVITY)

TRANSFER RIBONUCLEIC ACID
SEE NUCLEIC ACIOS, TRNA

TRANSFERASES
SEE ALSO AMIDINOTRANSFERASES
SEE ALSO GLYCOSYLTRANSFERASES
SEE ALSO PHOSPHORYLASES
SEE ALSO PHOSPHOTRANSFERASES
SEE ALSO TRANSACYLASES
SEE ALSO TRANSCARBAMYLASES
P6OHL-17269-04 0007 National heart and blood vessel research and demonstration center - Correlative studies of experimental myocardial ischemia (dog)
P6DHL-17269-04 0018 National heart and blood vessel research and demonstration center - Mitochondria and energetics (rabbits, dogs)

TRANSFERRIN
SEE METALLOPROTEINS, TRANSFERRIN

TRANSFORMATION
SEE GENETICS, SOMATIC CELL AND TRANSFORMATION
SEE IMMUNITY, CELLULAR, LYMPHOCYTE ACTIVATION, TRANSFORMATION AND PROLIFERATION

TRANSFORMATION NEOPLASTIC
SEE NEOPLASTIC TRANSFORMATION

TRANSFORMING VIRUSES
SEE VIRUS CHARACTERISTICS, TRANSFORMING VIRUSES

TRANSFUSION
SEE BLOOD TRANSFUSION

TRANSGLUTAMINASES
SEE AMINOACYLTRANSFERASES, TRANSGLUTAMINASES

TRANSGLYCOSIDASES
SEE GLYCOSYLTRANSFERASES

TRANSIENTS
SEE SOCIOENVIRONMENT, RESIDENTIAL MOBILITY, MIGRANTS

TRANSLATION
SEE GENETICS, GENETIC REGULATION, GENETIC INDUCTION-REPRESSION-DEREPRESSION, TRANSLATION

TRANSMETHYLASES, CATECHOL O-METHYL TRANSFERASE
R01HL-12647-08 Inactivation of norepinephrine in vascular tissue
RD1HL-17487-04 Adrenergic-vasoregulation interactions in hypertension (human)
RD1HL-20439-02 Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters)
R01HL-22077-01 Vasoactive amine disposition in cultured endothelium (rabbits)

TRANSMETHYLASES, N-METHYL TRANSFERASES
R01HL-17487-D4 Adrenergic-vasoregulation interactions in hypertension (human)
RD1HL-17706-04 Psychosocial hypertension, catecholamines and drugs (mice)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)

TRANSPLANTATION
SEE TISSUE COMPATIBILITY-TRANSPLANT, TRANSPLANTATION

TRANSPLANTATION ANTIGENS
SEE TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOANTIGENS

TRANSPLANTATION AUTOLOGOUS
SEE TISSUE COMPATIBILITY-TRANSPLANT, TRANSPLANTATION AUTOLOGOUS

TRANSPLANTATION HETEROLOGOUS
SEE TISSUE COMPATIBILITY-TRANSPLANT, TRANSPLANTATION HETEROLOGOUS

TRANSPLANTATION HOMOLOGOUS
SEE TISSUE COMPATIBILITY-TRANSPLANT, TRANSPLANTATION HOMOLOGOUS

TRANSPLANTATION IMMUNOLOGY
SEE TISSUE COMPATIBILITY-TRANSPLANT, ISOALLOIMMUNITY

TRANSPLANTATION REFERRAL CENTERS AND REGISTRIES
SEE TISSUE COMPATIBILITY-TRANSPLANTATION RESOURCES, REFERRAL CENTERS AND REGISTRIES

TRANSPLANTATION TYPING
SEE TISSUE COMPATIBILITY-TRANSPLANT, HISTOCOMPATIBILITY TYPING

TRANSPORT
SEE BIOLOGICAL TRANSPORT, ION EXCHANGE ANO TRANSPORT
SEE BIOLOGICAL TRANSPORT, MEMBRANE PERMEABILITY AND TRANSPORT
SEE KIONEY FUNCTION, RENAL TUBULAR TRANSPORT
SEE RESPIRATORY GAS TRANSPORT

TRANSPORT DISORDERS, GASTROINTESTINAL ABSORPTION
SEE GASTROINTESTINAL OISOROERS, MALABSORPTION SYNOROMES

TRANSPORT DISORDERS, INBORN (GENERAL)
SEE METABOLIC DISOROERS INBORN, TRANSPORT OISOROERS

TRANSPORT FACILITATORS (STIMULANTS)
SEE BIOLOGICAL TRANSPORT, TRANSPORT EFFECTORS

TRANSPORT INHIBITORS
SEE BIOLOGICAL TRANSPDRT, TRANSPORT EFFECTORS

TRANSPORT PROTEINS
SEE BIOLOGICAL TRANSPORT, TRANSPORT PROTEINS (SEE ALSO SPECIFICS)

TRANSPOSITION OF GREAT VESSELS
SEE CONGENITAL ABNORMALITIES, CARDIOVASCULAR SHUNTS ABNORMAL, VESSELS TRANSPOSITION

TRANSSULFURASES, COENZYME A TRANSFERASES
R01HL-13028-09 Regulation of myocardial fatty acid metabolism (rats)

TRANSVERSE AXIAL TOMOGRAPHY
SEE RADIOGRAPHY, SCANNING, CAT*

TRASYLOL
SEE PROTEASES AND PEPTIDASES, TRASYLOL

TRAUMA
SEE INJURIES, TRAUMA

TREMATODE ANTIGENS
SEE IMMUNOLOGY, ANTIGENS HELMINTHIC

TREMOR
SEE NEUROMOTOR DISOROERS, TREMOR

TRIACYLGLYCEROL LIPASE
SEE LIPASES, TRIACYLGLYCEROL LIPASE

TRIAZINE NUCLEOSIDES, AZACYTIDINE
R01HL-20856-02 Platelet transfusions--Usage and complications (human)

TRIBUTYRASE
SEE LIPASES, TRIACYLGLYCEROL LIPASE

TRICARBOXYLIC ACID CYCLE
SEE TRICARBOXYLIC ACIDS, KREBS CYCLE

TRICARBOXYLIC ACIDS
PD1HL-11351-12 0015 Cellular and molecular mechanisms of myocardial function - Effects of hypoxia and ischemia on ion exchange and heart function (rabbits)
R01HL-17403-03 Metabolic control of cardiac output (dogs)

TRICARBOXYLIC ACIDS, CITRATES
P5OHL-17667-04 0D12 Study of ischemic heart disease - Biochemistry of normal and ischemic heart--Glycolysis (rats)
R01HL-23159-01 Regulation of lipogenesis by polyunsaturated fats (rats, chicks)

TRICARBOXYLIC ACIDS, KREBS CYCLE
R01HL-13028-09 Regulation of myocardial fatty acid metabolism (rats)
R01HL-14461-08 Cardiac metabolism in heart failure (rats)
R01HL-15622-05 Computer simulation in cardiology (rats, dogs)
R01HL-16768-04 The sympathetic nervous system and the arterial wall (rabbits, pigeons)
P5DHL-17665-04 0029 Study of ischemic heart disease - Myocardial protein synthesis and degradation in low oxygen states (rabbit, dog)
P5OHL-17667-04 0012 Study of ischemic heart disease - Biochemistry of normal and ischemic heart--Glycolysis (rats)
RD1HL-18143-03 Surgery and pulmonary tissue alterations (dogs, rats, human)
R01HL-22101-02 Hormone-substrate interaction in diabetic myocyte (dogs, rats)
R01HL-23161-01 D001 Biology of myocardial ischemia - Mitochondrial lipid metabolism and cardiac ischemia (rat, dog)
R01HL-23240-01 Pulmonary vascular muscle metabolism and contractility (rats, cattle)

TRICUSPID INSUFFICIENCY
SEE HEART DISORDERS, VALVULAR INSUFFICIENCY, TRICUSPIO INSUFFICIENCY

TRICUSPID VALVE
SEE HEART, VALVES, TRICUSPIO VALVE

TRIGEMINAL NERVE
SEE NERVOUS SYSTEM, CRANIAL NERVES, TRIGEMINAL NERVE

TRIGEMINAL NUCLEUS (SPINAL)
SEE BRAIN, PONS, TRIGEMINAL NUCLEUS (SPINAL)

TRIGLYCERIDES
SEE LIPIOS, GLYCERIOES, TRIGLYCERIOES

TRIIODOTHYRONINE
SEE THYRONINE, TRIIOOOTHYRONINE

TRIMETHAPHAN CAMPHORSULFONATE
SEE SULFONATES, TRIMETHAPHAN CAMSYLATE

TRIMETHAPHAN CAMSYLATE
SEE SULFONATES, TRIMETHAPHAN CAMSYLATE

3,4,5-TRIMETHOXYBENZOYL METHYL RESERPATE
SEE ALKALOIDS, RAUWOLFIA TYPE, RESERPINE

TRIOSE ACIDS, GLYCERIC ACID DIPHOSPHATES
SEE ALSO PHOSPHOMUTASES, PHOSPHOGLYCEROMUTASE
R01HL-05791-18 Structure and function in hemoglobins (human)
R01HL-06950-17 Red cell metabolism (human, vertebrates)
R01HL-07449-17 Formation and survival of red blood cells (human)
P01HL-08899-14 0010 Tolerance to respiratory gases in health and disease - High oxygen pressure in septic shock (human)
R01HL-11154-12 Blood group antigens and antibodies (human)
R01HL-12174-11 Ventilation/perfusion distribution in the lung (human, mammals)
R01HL-12256-15 Polymerization of sickle-cell hemoglobin (human)
R01HL-13567-06 Ion transport across cell membranes (human)
PD1HL-14414-07 0014 Environmental influences on cardiorespiratory and cellular functions - Temperature and acid-base status in tissues, cells, and subcellular system
P01HL-15194-07 0006 Pathophysiology of cardiopulmonary dysfunction - Kinetics of gas exchange--Velocity of Bohr effect in erythrocytes (human)
P6DHL-15999-05 0021 Miami comprehensive sickle cell center - Diphosphonates--Erythrocyte calcium loading, maturation (human, chick embryo)
P6OHL-16008-06 0D16 Wayne State University comprehensive sickle cell center - Red blood cell glycolysis in sickle cell patients
R01HL-16421-08 Determinants of RBC deformability and capillary flow (human, mice)
** R01HL-16647-05 Studies on the control of sickle cell crisis (human)
P01HL-16833-04 0001 Hemoglobin and red cell system in hemoglobinopathies - Motility, association and ligand binding in hemoglobin--Hydrogen exchange
P01HL-16833-04 DD03 Hemoglobin and red cell system in hemoglobinopathies - Oxygen binding curves and equilibria (human)
R01HL-178D8-03 Effect of altered oxygen affinity on oxygen transport (human, rats)
** R01HL-18082-03 Erythrocyte phosphates and vertebrate gas transport (amphibians, reptiles)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-18328-03 Hemoglobin function and tissue oxygenation (human, dogs)
R01HL-18984-01 P50 effect on exercise limit in stable angina (human)
R01HL-19324-02 Mechanisms of the inhibition of sickling by DBA (human)
R01HL-19488-03 Picosecond laser studies of hemoproteins
R01HL-20074-02 Structure and function of amidinated human hemoglobin
P01HL-21016-02 0005 Sickle cell anemia and other hemoglobinopathies - Ligand kinetics in normal and Hb S containing erythrocytes (human)
P01HL-21016-02 0006 Sickle cell anemia and other hemoglobinopathies - Analysis of the oxygen dissociation curve of Hb S-containing red cells
P01HL-21016-02 0011 Sickle cell anemia and other hemoglobinopathies - Metabolic effects of anti-sickling agents (hamsters)
P01HL-21016-02 0014 Sickle cell anemia and other hemoglobinopathies - Human hemoglobin mutants with abnormal oxygen binding

TRIOSE ALCOHOLS, GLYCERIN
SEE ALSO LIPIDS, GLYCERIDES
SEE ALSO LIPIDS, GLYCERYL ETHERS
P01HL-06312-17 0033 Surgical cardiology - Studies in cryopreservations (rats)
R01HL-15273-06 Metabolism of pulmonary surfactant (human, rats)
R01HL-19463-02 Pathophysiology of acute renal failure (rats)
R01HL-19722-03 Aerosol growth in the respiratory system (models)
R01HL-20219-02 Cryopreservation of the isolated heart (rats)

TRIOSE ALCOHOLS, GLYCEROPHOSPHATES
SEE ALSO OXIDOREDUCTASES, GLYCEROPHOSPHATE DEHYDROGENASE
P01HL-06308-18 0040 Mechanisms and therapy of circulatory disease - Metabolism and fatty acid utilization--Heart electrical stability (rats, dogs)
P50HL-15061-07 0002 Response of lung to injury - Oxidative metabolism, phospholipid synthesis, and response to toxins (rats)
R01HL-19010-03 Metabolism and cell biology of lung surfactant system (rabbits, sheep)
P01HL-20993-02 0006 Population dynamics of arterial cells in atherogenesis - Mechanism of regression of atherosclerosis by diet and injury (swine)

TRIOSE ALCOHOLS, NITROGLYCERIN
M P01HL-04664-18 Cardiovascular and lung dynamics
P01HL-04664-18 0010 Cardiovascular and lung dynamics - Left ventricular dynamics (human)
P01HL-04664-18 0011 Cardiovascular and lung dynamics - Detection of abnormal segments of the human ventricle by measure of asynergy
P01HL-04664-18 0012 Cardiovascular and lung dynamics - Quantitative single plane left ventricular angiography (human)
** P01HL-04664-18 0013 Cardiovascular and lung dynamics - Ventricular function in coronary disease using NTG and ventriculograms (human)
P01HL-04664-18 0014 Cardiovascular and lung dynamics - Clinical application of computer analysis of ventricular wall motion
P01HL-06308-18 0011 Mechanisms and therapy of circulatory disease - Blood flow and electrical dysfunction in ventricular arrhythmia (human)
P01HL-06308-18 0038 Mechanisms and therapy of circulatory disease - Electrophysiology of ventricular arrhythmias associated with ischemia (dogs)
P01HL-06664-17 0034 Cardiopulmonary function in remediable vascular disease - Role of hyperosmolar agents in ischemic heart disease (dogs)
R01HL-07139-17 Cardiodynamics and metabolism of congestive failure (human, dogs)
R01HL-08311-14 Effects of drugs upon myocardial hypoxia (dogs, turtles)
R01HL-10009-13 Regional lung function in man
R01HL-12322-10 Extrinsic factors influencing myocardial performance (dogs, swine)
P01HL-14388-07 0185 Regulation of the circulation in pathological states - Reflex control of venous tone (human, rabbits, dogs)
P01HL-14388-07 0230 Regulation of the circulation in pathological states - Effects of indomethacin in patients with carcinoid syndrome
R01HL-14571-05 Myocardial preservation and coronary reperfusion (baboons, dogs)
R01HL-15416-06 Cardiovascular control in normal and disease states (dogs, baboons)
R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
R01HL-16236-04 Detailed characteristics of coronary blood flow (horses, dogs, calves)
R01HL-16412-04 Release of nucleosides from the ischemic heart (human, dogs)
** P50HL-17655-04 0001 Study of ischemic heart disease - Intravenous nitroglycerin--Ventricular function and infarct size (human, dog)
P50HL-17655-04 0009 Study of ischemic heart disease - Random trial of medical and surgical therapy in unstable angina (human)
P50HL-17655-04 0014 Study of ischemic heart disease - Blood flow and gas tension in myocardial ischemia and infarction (dog, monkey)
P50HL-17669-04 0012 Ischemic heart disease center (SCOR) - Circulatory assistance (human, dog)
P50HL-17670-04 0009 Study of ischemic heart disease - Surgical treatment of localized left ventricular dyssynergy (human, dogs)
R01HL-18024-03 Regional myocardial flow and function relationships (dogs)
R01HL-18204-03 Regional blood flow in viral myocarditis (turkeys)
R01HL-18468-03 The distribution of flow in the myocardium (dog, pig)
R01HL-18537-04 Regional blood flow after acute myocardial injury (dogs)
R01HL-19202-03 Adenosine, prostaglandins in relation to coronary flow (guinea pigs)
R01HL-19451-03 0001 Functional characteristics of the left heart - Ventricular performance using epicardial radiopaque markers (human)
R01HL-19451-03 0003 Functional characteristics of the left heart - Left ventricular segmental contraction (human, dogs)
R01HL-19451-03 0004 Functional characteristics of the left heart - Quantitative coronary arteriography (human)
R01HL-19937-02 Vasodilators in experimental myocardial infarction (dogs)
R01HL-20598-03 The coronary vascular response to ischemia (dogs, pigs)
R01HL-20630-03 Development of a pulsed Doppler velocity detector (human, animals)
R23HL-21151-02 Ischemic myocardium--Delivery of blood flow and drugs (dogs)
R01HL-21684-02 0005 Radionuclide infarct sizing and therapy evaluation - Clinical evaluation of radioisotope imaging methods for quantifying infarct size
** R01HL-22273-01 Oral and lung absorption of nitroglycerin (rats)

TRIOSE PHOSPHATE DEHYDROGENASE
SEE OXIDOREDUCTASES, GLYCERALDEHYDE PHOSPHATE DEHYDROGENASE

TRIOSE PHOSPHATES
SEE TRIOSES, TRIOSE PHOSPHATES

TRIOSES, GLYCERALDEHYDE
** R01HL-18819-07 Chemical studies on sickle cell hemoglobin (human)

TRIOSES, TRIOSE PHOSPHATES
R01HL-15013-07 Lung oxidative metabolism and energy production (rodents, rabbits)

TRIPHENYLS, HALOGENATED
SEE HALOBENZENES, HALOGENATED BIPHENYLS-TRIPHENYLS AND ANALOGS

TRIPLETS
SEE FAMILY, TWINS AND MULTIPLETS

TRISOMY
SEE GENETICS, MUTATION, GENOME MUTATION, TRISOMY

TRITIUM
SEE HYDROGEN, TRITIUM*

TRNA
SEE NUCLEIC ACIDS, TRNA

TROPANES, ATROPINE
R01HL-03941-18 Uterine blood flow and changes in pregnancy (sheep)
R01HL-04457-20 Cellular aspects of active transport (fish, rabbits, anurans, turtles)
P01HL-11310-12 0079 Mechanisms of cardiovascular disease - Electrophysiological studies of complete heart block (human)
R01HL-11907-08 Mechanisms of physiological responses to exercise (human, dogs)
P01HL-12738-10 0035 Physiologic pharmacology and its clinical applications - Function and dysfunction of the sinoatrial node (human)
P01HL-13108-09 0017 Clinical heart transplantation - Electrophysiology of the transplanted denervated human heart
P01HL-14388-07 0209 Regulation of the circulation in pathological states - Neural regulation of vascular resistance in human hypertension
R01HL-14713-06 Hypothermia and the heart (bats, guinea pigs)
R01HL-15758-06 Catecholamine release in the heart (dogs)
R01HL-16066-05 Studies on neurogenic control of the circulation (human, dogs)
R01HL-16463-05 Localization of airways obstruction and responses
R01HL-16656-06 Left ventricular function in exercise (dogs)
R01HL-17873-04 Pathophysiology of exercise-induced asthma (human)
R01HL-18467-03 Fingertip blood flow in normals and Raynaud's disease (human)
P50HL-19170-02 0007 Harvard pulmonary SCOR--Chronic diseases of the airways - Therapy effect on airway obstruction in acute asthma (human)
R01HL-20572-02 0007 Hemodynamic relations to metabolism in hypertension - Drug effects on cardiac function and hypertropy (rats)
P01HL-21584-02 0005 Respiratory mechanics in normal and abnormal states - Regulation and behavior of airway smooth muscle (human, animals)
R01HL-22546-02 Baroreceptor reflex mechanisms in man

TROPANES, COCAINE
R01HL-08359-14 Morphopharmacology of vascular adrenergic transmission (rabbits, rats)
R01HL-15758-06 Catecholamine release in the heart (dogs)
P01HL-18575-03 0001 Mechanisms of vascular changes in hypertension - Arteries and resistance vessels in hypertension (pigs, rats)
P01HL-20581-01 0001 Vascular neuroeffector mechanisms in health and disease - Vascular neuroeffector mechanism (rabbits)

TROPHOTROPIC STATE
SEE PSYCHIC ACTIVITY LEVEL, TROPHOTROPIC STATE

TROPOCOLLAGEN
SEE ALBUMINOIDS, COLLAGEN, TROPOCOLLAGEN

TROPOMYOSIN
SEE MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), TROPOMYOSIN

TROPONIN
SEE MUSCLE PROTEINS (AND CONTRACTILE PROTEINS), TROPONIN

TRYPANOSOMA CRUZI
SEE PROTOZOA, MASTIGOPHORA, TRYPANOSOMA CRUZI

TRYPSIN
SEE PROTEASES AND PEPTIDASES, TRYPSIN

TRYPSIN INHIBITORS
SEE ENZYME INHIBITORS, TRYPSIN INHIBITORS

TRYPTOPHAN
SEE CYCLIC AMINO ACIDS, TRYPTOPHAN

TRYPTOPHAN 2,3-DIOXYGENASE
SEE OXYGENASES, TRYPTOPHAN 2,3-DIOXYGENASE

TRYPTOPHAN 5-HYDROXYLASE
SEE OXYGENASES, TRYPTOPHAN 5-MONOOXYGENASE

TRYPTOPHAN 5-MONOOXYGENASE
SEE OXYGENASES, TRYPTOPHAN 5-MONOOXYGENASE

TRYPTOPHAN OXYGENASE
SEE OXYGENASES, TRYPTOPHAN 2,3-DIOXYGENASE

TRYPTOPHAN PYRROLASE
SEE OXYGENASES, TRYPTOPHAN 2,3-DIOXYGENASE

TUBERCULIN TYPE HYPERSENSITIVITY
SEE HYPERSENSITIVITY, DELAYED HYPERSENSITIVITY

TUBERCULOSIS
SEE BACTERIAL DISEASES, ACTINOMYCETALES INFECTIONS, TUBERCULOSIS

TUMOR ANGIOGENESIS FACTOR
SEE NEOPLASMS VASCULAR SUPPLY, TUMOR ANGIOGENESIS FACTOR

TUMOR ANTIBODIES
SEE NEOPLASMS IMMUNOLOGY, TUMOR ANTIBODIES

TUMOR ANTIGENS
SEE NEOPLASMS IMMUNOLOGY, TUMOR ANTIGENS

TUMOR CELLS
SEE NEOPLASTIC CELLS

TUMORS
SEE NEOPLASMS

TURTLES
SEE REPTILES, TURTLES*

TWINS AND MULTIPLETS
SEE FAMILY, TWINS AND MULTIPLETS

TYPING
SEE BLOOD GROUPS
SEE BLOOD PLATELET TYPING
SEE CELL TYPES
SEE TISSUE COMPATIBILITY-TRANSPLANT, HISTOCOMPATIBILITY TYPING

TYPING, MICROBIAL (GENERAL)
SEE MICROBIAL IDENTIFICATION AND CLASSIFICATION (TECHNIQUES)

TYPING REFERRAL CENTERS, HISTOCOMPATIBILITY
SEE TISSUE COMPATIBILITY-TRANSPLANTATION RESOURCES, REFERRAL CENTERS AND REGISTRIES

(contd)

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**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

TYPING SERA FOR HISTOCOMPATIBILITY TYPING
SEE TISSUE COMPATIBILITY-TRANSPLANT, HISTOCOMPATIBILITY TYPING

TYPING TAXONOMICAL
SEE BIOLOGY, SYSTEMATIC

TYPING TAXONOMICAL, MICROBIAL (GENERAL)
SEE MICROBIAL IOENTIFICATION ANO CLASSIFICATION (TECHNIQUES)

TYRAMINASE
SEE OXIOOREOUCTASES, AMINE OXIOASE (FLAVIN CONTAINING)

TYRAMINE
SEE PHENOLIC AMINES, TYRAMINE

TYRAMINE OXIDASE
SEE OXIOOREOUCTASES, AMINE OXIOASE (FLAVIN CONTAINING)

TYROSINASE
SEE OXYGENASES, MONOPHENOL MONOOXYGENASE

TYROSINE
SEE CYCLIC AMINO ACIOS, TYROSINE

TYROSINE 3-HYDROXYLASE
SEE OXYGENASES, TYROSINE 3-MONOOXYGENASE

TYROSINE 3-MONOOXYGENASE
SEE OXYGENASES, TYROSINE 3-MONOOXYGENASE

UDDER
SEE REPROOUCTIVE SYSTEM FEMALE, MAMMARY GLANOS

UDP GLUCOSE:ALPHA-1,4-GLUCAN ALPHA-4-GLUCOSYLTRANSFERASE
SEE GLYCOSYLTRANSFERASES, UOP GLUCOSE:ALPHA-1,4-GLUCAN ALPHA-4-GLUCOSYLTRANSFERASE

ULCER
SEE CAROIOVASCULAR OISOROERS, VARICOSE ULCER
SEE GASTROINTESTINAL OISOROERS, PEPTIC ULCER
SEE SKIN ULCERS

ULCERATIVE COLITIS
SEE GASTROINTESTINAL OISOROERS, ENTERITIS, ULCERATIVE COLITIS

ULTRACENTRIFUGATION
SEE PHYSICAL SEPARATION, ULTRACENTRIFUGATION*

ULTRASONIC CARDIOGRAPHY
SEE HEART VISUALIZATION, ECHOCAROIOGRAPHY*

ULTRASONIC (ECHO) ANGIOCARDIOGRAPHY
SEE HEART VISUALIZATION, ANGIOCAROIOULTRASONOGRAPHY*

ULTRASONIC ECHOENCEPHALOGRAPHY
SEE BRAIN VISUALIZATION, ULTRASONIC ECHOENCEPHALOGRAPHY*

ULTRASONIC FLOWMETER
SEE CAROIOVASCULAR OISOROERS OIAGNOSIS, BLOOO FLOW MEASUREMENTS, ULTRASONIC*
SEE RESPIRATORY OISOROERS OIAGNOSIS, RESPIRATORY AIRFLOW MEASUREMENTS, ULTRASONIC*

ULTRASONIC GAS FLOWMETERS, RESPIRATORY
SEE RESPIRATORY OISOROERS OIAGNOSIS, RESPIRATORY AIRFLOW MEASUREMENTS, ULTRASONIC*

ULTRASONIC HOLOGRAPHY
SEE OPTICS, PHOTOGRAPHY, HOLOGRAPHY, ACOUSTIC*

ULTRASONIC MICROSCOPY
SEE OPTICS, MICROSCOPY, ULTRASONIC*

ULTRASONIC SCANNING
SEE PHYSICAL PROPERTIES, SOUNO, ULTRASONIC SCANNING*

ULTRASONICS
SEE PHYSICAL PROPERTIES, SOUNO, ULTRASONICS

ULTRASONOGRAPHY
SEE PHYSICAL PROPERTIES, SOUNO, ULTRASONOGRAPHY

ULTRASOUND ADVERSE EFFECTS
SEE PHYSICAL PROPERTIES, SOUNO, ULTRASOUNO ADVERSE EFFECTS

ULTRASOUND SCANNING
SEE PHYSICAL PROPERTIES, SOUNO, ULTRASONIC SCANNING*

UMBILICAL CORD
SEE PREGNANCY, UMBILICAL CORO

UNCONSCIOUSNESS
SEE NEUROLOGIC MANIFESTATIONS, UNCONSCIOUSNESS

UNITED STATES
SEE GEOGRAPHICAL SITES, UNITEO STATES

UNIVERSITIES
SEE EOUCATION, UNIVERSITIES

UNNATURAL PEPTIDES
SEE PEPTIOES, UNNATURAL PEPTIOES

UNSATURATED FATS
SEE LIPIOS, FATS, UNSATURATEO FATS

UNSATURATED FATTY ACIDS
SEE FATTY ACIOS, UNSATURATEO FATTY ACIOS

URACIL-4-CARBOXYLIC ACID
SEE PYRIMIOINES, OROTIC ACIO

URANIUM
SEE RAOIOISOTOPES, ACTINIOE SERIES, URANIUM

URBAN AREAS
SEE SOCIOENVIRONMENT, URBAN AREAS

URBAN POVERTY AREAS
SEE SOCIOENVIRONMENT, URBAN POVERTY AREAS

UREA
SEE AMIOES, UREA

UREA CYCLE
SEE AMINO ACIOS, UREA CYCLE

UREMIA
SEE KIONEY OISOROERS, UREMIA

URETER OBSTRUCTION
SEE URINARY TRACT OISOROERS, URETER OBSTRUCTION

URETHAN
SEE CARBAMATES, URETHAN

URETHANE POLYMERS
SEE PLASTICS, POLYURETHANES

URETHRITIS
SEE URINARY TRACT OISOROERS, URETHRITIS

URIC ACID
SEE PURINES, URIC ACIO

URICOSURIC AGENTS
SEE PURINES-PYRIMIOINES METABOLISM ERRORS, GOUT ORUGS

URIDINE
SEE PYRIMIOINE NUCLEOSIOES, URACIL NUCLEOSIOES, URIOINE

URIDINE DIPHOSPHATE
SEE PYRIMIOINE NUCLEOTIOES, URACIL NUCLEOTIOES, URIOINE OIPHOSPHATE

URINALYSIS (CHEMICAL ANALYSIS)
SEE CHEMISTRY, CLINICAL, URINE CHEMICAL ANALYSIS

URINARY ACIDITY
SEE URINE ACIOITY

URINARY BLADDER
SEE URINARY TRACT, URINARY BLAOOER

URINARY BLADDER DISORDERS
SEE URINARY TRACT OISOROERS, URINARY BLAOOER OISOROERS

URINARY TRACT, URINARY BLADDER
SEE ALSO URINARY TRACT OISOROERS, URINARY BLAOOER OISOROERS
** P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)
R01HL-21849-02 Control of sodium transport and cellular respiration (toad bladder)

URINARY TRACT DISORDERS, URETER OBSTRUCTION
R01HL-17781-03 Hypertension, kidney disease and renal lymph (dogs, rats)

URINARY TRACT DISORDERS, URETHRITIS
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)

URINARY TRACT DISORDERS, URINARY BLADDER DISORDERS
P01HL-14388-07 0191 Regulation of the circulation in pathological states - Regulation of chloride transport in epithelial membranes (turtles)

URINARY TRACT SURGERY
SEE ALSO KIONEY SURGERY
R01HL-13754-08 Postoperative thromboembolism in surgical patients (human)

URINE*
SEE ALSO METABOLIC OISOROERS INBORN, AMINOACIOOPATHIES
SEE ALSO PROTEINURIA
N01HB-82926-00 Source of human urinary erythropoietin
R01HL-19066-03 Synthesis and evaluation of prostaglandin metabolites (guinea pigs)
R23HL-19601-01 Cardiac response to chronic metabolic acidosis (rats)
R23HL-21083-02 Pharmacokinetics of digoxin and digitoxin in humans (rats)
N01HR-72922-01 Cystic fribrosis factor identication and quantification (human)

URINE ACIDITY
P01HL-06285-18 0198 Cardiovascular-respiratory physiology and biochemistry - Renal tubular secretion of hydrogen ion (animals)
** R01HL-14720-08 Factors governing the renal excretion of acid (humans, rats)

URINE CHEMICAL ANALYSIS
SEE CHEMISTRY, CLINICAL, URINE CHEMICAL ANALYSIS

UROGENITAL SYSTEM
SEE REPROOUCTIVE SYSTEM (GENERAL)

UROKINASE
SEE BLOOO COAGULATION, UROKINASE

URONIC ACIDS
SEE SUGAR ACIOS, URONIC ACIOS

URUSHIOL OXIDASE
SEE OXYGENASES, MONOPHENOL MONOOXYGENASE

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SEE CONSUMER PROOUCTS

UTERINE DISORDERS
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UTERUS
SEE REPROOUCTIVE SYSTEM FEMALE, UTERUS

UTILIZATION OF HEALTH SERVICES-RESOURCES
SEE HEALTH CARE (SERVICES)(RESOURCES) UTILIZATION

UTILIZATION REVIEW
SEE HEALTH CARE QUALITY

VACCINES, BACTERIAL (GENERAL)
R23HL-21212-02 Alveolar macrophage function in Pseudomonas infection (dgs)
R23HL-21997-01 Pulmonary immunopathology in the compromised host (guinea pigs)

VACCINES, BACTERIAL, PNEUMOCOCCAL VACCINE
** P60HL-15162-07 0021 Comprehensive sickle cell center - Pneumococcal vaccine in sickle cell disease (children)
P60HL-16008-06 0019 Wayne State University comprehensive sickle cell center - Cell mediated immunity in sickle cell anemia (human)
** P60HL-20985-01 0002 Northern California sickle cell center - Immunization with polyvalent pneumococcal polysaccharide vaccine (human)

VACCINES, VIRAL VACCINES (GENERAL)
P01HL-06314-17 0061 Immunologic mechanisms in cardiovascular disease - Role of viruses in cardiovascular and renal disease (human, mice)
R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)

VACCINES, VIRAL, HEPATITIS, SERUM
** P01HL-09011-15 0020 A research and resource program in blood - Passive immunization in the prevention of transmission of hepatitis B (human)
** P01HL-09011-15 0023 A research and resource program in blood - Evaluation of hepatitis B vaccine in endemic settings (human)

VACUOLES
SEE CELL COMPONENTS, VACUOLES

VAGOTOMY
SEE NEUROSURGERY, VAGOTOMY

VAGUS NERVE
SEE NERVOUS SYSTEM, CRANIAL NERVES, VAGUS

VALINE
SEE AMINO ACIOS, VALINE

VALINOMYCIN
SEE ANTIBIOTICS, VALINOMYCIN

VALSALVA'S MANEUVER
SEE RESPIRATORY FUNCTION, VALSALVA'S MANEUVER

VALVES, HEART
SEE HEART, VALVES

VALVULAR HEART DISORDERS
SEE HEART OISOROERS, VALVULAR

VALVULAR INSUFFICIENCY
SEE HEART OISOROERS, VALVULAR INSUFFICIENCY

VAN DER WAAL'S FORCES
SEE MOLECULAR INTERACTIONS NONBONOING

VANCOMYCIN
SEE ANTIBIOTICS, VANCOMYCIN

VAPORS
SEE PHYSICAL PROPERTIES, FLUIO STATE, VAPORS

(contd)

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VARICES
SEE CAROIOVASCULAR OISOROERS, VASOOILATATION
SEE GASTROINTESTINAL CIRCULATORY OISOROERS, ESOPHAGEAL VARICES

VARICOSE ULCER
SEE CAROIOVASCULAR OISOROERS, VARICOSE ULCER

VAS DEFERENS
SEE REPROOUCTIVE SYSTEM MALE, EPIOIOYMIS ANO OUCTS

VASA VASORUM
SEE CAROIOVASCULAR SYSTEM, VASA VASORUM

VASCULAR BEDS
SEE CAROIOVASCULAR SYSTEM, CAPILLARY BEOS

VASCULAR DISORDERS (GENERAL)
SEE CAROIOVASCULAR OISOROERS, VASCULAR OISOROERS (GENERAL)

VASCULAR HEMOPHILIA
SEE BLOOO COAGULATION OISOROERS, VON WILLEBRANO'S OISEASE

VASCULAR OCCLUSION (PARTIAL OR TOTAL), THERAPEUTIC
SEE CAROIOVASCULAR SURGERY, VASCULAR OCCLUSION THERAPEUTIC

VASCULAR PERMEABILITY
SEE CAROIOVASCULAR SYSTEM, ENOOTHELIUM PERMEABILITY

VASCULAR RESISTANCE
SEE CAROIOVASCULAR FUNCTION, VASCULAR RESISTANCE

VASCULAR SUPPLY OF NEOPLASMS
SEE NEOPLASMS VASCULAR SUPPLY

VASOACTIVE AGENTS (GENERAL)
SEE CAROIOVASCULAR AGENTS, VASOACTIVE AGENTS (GENERAL)

VASOACTIVE PEPTIDES, PRECURSORS, AND RELATED ENZYMES
SEE PEPTIOES, VASOACTIVE PEPTIOES

VASODILATATION
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VASODILATORS
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VASODILATORS, CORONARY
SEE CAROIOVASCULAR AGENTS, VASOOILATORS, CORONARY

VASOMOTION
SEE CAROIOVASCULAR FUNCTION, VASOMOTION

VASO-OCCLUSIVE CRISIS IN SICKLE CELL DISEASES
SEE HEMOPROTEINS, HEMOGLOBINOPATHIES, SICKLE CELL CRISIS

VASOPRESSIN
SEE PITUITARY-OIENCEPHALON HORMONES, VASOPRESSIN

VASOPRESSIN DEFECTIVE DIABETES INSIPIDUS
SEE METABOLIC OISOROERS (INBORN), OIABETES INSIPIOUS

VASOPRESSIN DEFICIENCY
SEE METABOLIC OISOROERS (INBORN), OIABETES INSIPIOUS

VASOPRESSORS
SEE CAROIOVASCULAR AGENTS, VASOPRESSORS

VASOSPASMS
SEE CAROIOVASCULAR OISOROERS, VASOSPASM

VECTORCARDIOGRAPHY
SEE HEART OISOROERS OIAGNOSIS, VECTORCAROIOGRAPHY*

VECTOR MAGNETOCARDIOGRAPHY
SEE HEART OISOROERS OIAGNOSIS, VECTOR MAGNETOCAROIOGRAPHY*

VEGETABLES OILS (FATS)
SEE LIPIOS, OILS, VEGETABLE OILS

VEGETARIANISM
SEE NUTRITION, OIET, VEGETARIANISM

VEHICLES DRUG
SEE ORUGS VEHICLES

VEINS
SEE CAROIOVASCULAR SYSTEM, VEINS

VENA CAVA FILTERS
SEE BLOOO TREATMENT, BLOOO FILTERS, VENA CAVA FILTERS

VENA CAVAE
SEE CAROIOVASCULAR SYSTEM, VEINS, VENA CAVAE

VENOGRAPHY (GENERAL)
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SEE OOSAGE AND ROUTE, INFUSIONS VENOUS

VENOUS OCCLUSIONS
SEE CAROIOVASCULAR OISOROERS, VENOUS OCCLUSIONS

VENOUS SINUSES, INTRACRANIAL
SEE CEREBROVASCULAR SYSTEM, VENOUS SINUSES INTRACRANIAL

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SEE CAROIOVASCULAR OISOROERS, THROMBOSIS, VENOUS

VENTILATION, HEATING, AIR CONDITIONING
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VENTRAL SENSORY NUCLEUS
SEE BRAIN, MEOULLA OBLONGATA, SOLITARY TRACT NUCLEUS

VENTRICLES
SEE BRAIN, CENTRAL SPACES
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VENTRICULAR FIBRILLATION
SEE HEART OISOROERS, ARRHYTHMIA, VENTRICULAR FIBRILLATION

VENTRICULAR HYPERTROPHY
SEE HEART OISOROERS, HEART ENLARGEMENT, VENTRICULAR HYPERTROPHY

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SEE PHENYLALKYLAMINES, VERAPAMIL

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SEE ANIMALS, CHOROATES, VERTEBRATES*

VERY LOW DENSITY LIPOPROTEINS
SEE LIPOPROTEINS BLOOO, VLOL

VESTIBULAR APPARATUS
SEE EAR, LABYRINTH, VESTIBULAR APPARATUS

VESTIBULAR PATHWAYS
SEE EAR, LABYRINTH, VESTIBULAR APPARATUS

VESTIBULAR REFLEX
SEE EAR, LABYRINTH, VESTIBULAR REFLEX

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SEE ANIMALS, VETERINARY MEOICINE

VETERINARY SCIENCE
SEE ANIMALS, VETERINARY SCIENCE

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SEE CHEMICAL BONOS, VIBRATIONS

VILLI, INTESTINAL
SEE GASTROINTESTINAL SYSTEM, INTESTINES, MUCOSA, VILLI

VINBLASTINE
SEE ALKALOIOS, VINBLASTINE

VINCA ALKALOIDS
SEE ALKALOIOS, VINCA

VINCALEUKOBLASTINE
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VINYLBENZENE POLYMERS
SEE PLASTICS, STYRENE POLYMERS

VINYL CHLORIDE
SEE HALOOLEFINS, VINYLEOENE CHLORIOE

VINYL CHLORIDE POLYMERS
SEE PLASTICS, POLYVINYLS

VINYLEDENE CHLORIDE
SEE HALOOLEFINS, VINYLEOENE CHLORIOE

VINYL POLYMERS
SEE PLASTICS, POLYVINYLS

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SEE PANCREAS, PANCREATIC ENZYMES

VIOLENCE
SEE PSYCHOLOGY, BEHAVIOR, AGGRESSION

VIRAL ANTIBODIES
SEE IMMUNOLOGY, ANTIBOOIES VIRAL

VIRAL ANTIGENS
SEE IMMUNOLOGY, ANTIGENS VIRAL

VIRAL PROTEINS
SEE PROTEINS, VIRAL (GENERAL)

VIRAL RNA
SEE NUCLEIC ACIOS, RNA VIRAL

VIRAL TYPING AND IDENTIFICATION
SEE MICROBIAL IOENTIFICATION ANO CLASSIFICATION, VIRAL TYPING ANO IDENTIFICATION

VIRAL VACCINES
SEE VACCINES, VIRAL VACCINES (GENERAL)

VIRICIDES
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VIROLOGY (EXPERIMENTAL) STUDY SECTION
SEE EXPERIMENTAL VIROLOGY STUOY SECTION

VIROLOGY STUDY SECTION
** R01HL-17404-05 Immunologic mechanisms in heart disease (mice)
** R01HL-18535-03 Epidemiology and course of viral myopericarditis (human)

VIRULENCE MICROORGANISMS
SEE MICROORGANISMS VIRULENCE

VIRUS CHARACTERISTICS, TRANSFORMING VIRUSES
SEE ALSO GENETICS, SOMATIC CELL ANO TRANSFORMATION
P01HL-09011-15 0010 A research and resource program in blood - Chromosome changes in human genetics
P01HL-19259-03 0003 Oigoxin-specific antibody in human therapy - Synthesis of dogoxin-specific antibody in continuous cell culture (human, sheep)
R01HL-20054-02 Cultured blood vessel cells--Pathophysiology (human, animals)
P01HL-22602-01 0001 Pathophysiology of the endothelium - Platelet-endothelial interactions in vitro (human, cattle)

VIRUS COMPONENTS
** P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of arenavirus and Bunyamweraviruses

VIRUS COMPONENTS, CAPSID AND ENVELOPE
P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of arenavirus and Bunyamweraviruses

VIRUS COMPONENTS, CORE
P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of arenavirus and Bunyamweraviruses
P60HL-17269-04 0035 National heart and blood vessel research and demonstration center - Blood resources--Research program in viral hepatitis (human)

VIRUS DEVELOPMENT, REPLICATION
SEE ALSO NUCLEIC ACIOS SYNTHESIS
P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)
P01HL-09011-15 0005 A research and resource program in blood - Characterization of hepatitis-B antigen and the cause of serum hepatitis (human)
** P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of arenavirus and Bunyamweraviruses
R01HL-11822-10 Biophysical studies of macromolecular interactions (microorganism, human)
** P60HL-17269-04 0035 National heart and blood vessel research and demonstration center - Blood resources--Research program in viral hepatitis (human)
R01HL-17404-05 Immunologic mechanisms in heart disease (mice)
R01HL-19164-03 Piscine erythrocytic necrosis in the Atlantic cod
R01HL-21047-01 Studies of coxsackievirus-induced myocarditis in mice
** R01HL-23588-01 NOV infection--Analysis at the subcellular level (chickens)

VIRUS DISEASE CHARACTERISTICS, CYTOPATHOGENIC EFFECT VIRAL
P50HL-15061-07 0010 Response of lung to injury - An animal model system for the study of bronchiolitis and its sequellae (dogs)
** R01HL-18152-03 Vascular injury and atherosclerosis (mice, coxsackievirus)
** R01HL-19163-02 Piscine erythrocytic necrosis in the Atlantic cod
** R01HL-20002-03 Pulmonary complications of viral infections (children)

VIRUS DISEASE CHARACTERISTICS, HOST-VIRUS
R01HL-19163-02 Piscine erythrocytic necrosis in the Atlantic cod
R01HL-19164-03 Piscine erythrocytic necrosis in the Atlantic cod
P50HL-19171-02 0006 Pulmonary SCOR--Lung injury by childhood infections - Oevelopment of model systems (bacteria, viruses, hamsters)
R01HL-19381-03 Pathogenesis of viral induced atherosclerosis (human, chicken)
** R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)
R01HL-23588-01 NOV infection--Analysis at the subcellular level (chickens)

(contd)

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VIRUS DISEASE CHARACTERISTICS, INFECTION MECHANISMS (GENERAL)
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)
** P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of arenavirus and Bunyamweraviruses
P50HL-19171-02 0006 Pulmonary SCOR--Lung injury by childhood infections - Oevelopment of model systems (bacteria, viruses, hamsters)
** R01HL-21047-01 Studies of coxsackievirus-induced myocarditis in mice

VIRUS DISEASE CHARACTERISTICS, LATENT DORMANT OR SLOW
R01HL-18152-03 Vascular injury and atherosclerosis (mice, coxsackievirus)

VIRUS DISEASES
SEE ALSO COMMUNICABLE OISEASE CONTROL AGENTS, ANTIVIRAL
SEE ALSO IMMUNOLOGY, ANTIBOOIES VIRAL
SEE ALSO LIVER OISOROERS, HEPATITIS SERUM
SEE ALSO LIVER OISOROERS, HEPATITIS VIRAL HUMAN
SEE ALSO NEOPLASMS, VIRUS INOUCEO
SEE ALSO NERVOUS OISOROERS, MYELINOPATHIES, MULTIPLE SCLERDSIS
SEE ALSO NERVOUS OISOROERS CENTRAL, MAREK'S OISEASE
SEE ALSO RESPIRATORY OISOROERS, LARYNGDTRACHEITIS
SEE ALSO RESPIRATORY OISOROERS, PNEUMONIA VIRAL
** R01HL-01803-23 0020 Arteriosclerosis, glomerulonephritis, rheumatic fever - Virus-induced arterosclerosis (chickens)
M P01HL-06314-17 Immunologic mechanisms in cardiovascular disease
P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)
** P01HL-06314-17 0061 Immunologic mechanisms in cardiovascular disease - Role of viruses in cardiovascular and renal disease (human, mice)
P60HL-15996-06 0005 Cincinnati comprehensive sickle cell center - Factors precipitating crises (human)
** R01HL-16246-06 Immunologic studies in postpericardiotomy syndrome (human)
R01HL-16463-05 Localization of airways obstruction and responses
R01HL-18152-03 Vascular injury and atherosclerosis (mice, coxsackievirus)
** R01HL-18204-03 Regional blood flow in viral myocarditis (turkeys)
** R01HL-19164-03 Piscine erythrocytic necrosis in the Atlantic cod
** R01HL-21829-01 Etiology of obstructive airway disease in children (also monkeys)
R01HL-22029-02 Bronchopulmonary resistance to bacterial infection (mice)

VIRUS DISEASES, ARBOVIRUS, DENGUE
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)

VIRUS DISEASES, HERPESVIRUS
P50HL-18828-03 0006 Specialized center of research in thrombosis - Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human)

VIRUS DISEASES, MYXOVIRUS, INFLUENZA
SEE ALSO VIRUSES, MYXOVIRUSES, INFLUENZA VIRUSES
P50HL-19156-02 0001 Pulmonary SCOR--Chronic diseases of airways - Irritability of airways induced by epithelial damage in healthy subjects (human)

VIRUS INDUCED NEOPLASMS
SEE NEOPLASMS, VIRUS INDUCEO

VIRUS INFECTION MECHANISMS (GENERAL)
SEE VIRUS OISEASE CHARACTERISTICS, INFECTION MECHANISMS (GENERAL)

VIRUS INHIBITORS
SEE COMMUNICABLE OISEASE CONTRDL AGENTS, ANTIVIRAL

VIRUS PNEUMONIA
SEE RESPIRATORY OISDROERS, PNEUMONIA VIRAL

VIRUS REPLICATION
SEE VIRUS DEVELOPMENT, REPLICATIDN

VIRUSES
SEE ALSO CHLAMYOIA
SEE ALSO EXPERIMENTAL VIRDLOGY STUOY SECTIDN
SEE ALSD IMMUNDLOGY, INTERFERDN
R01HL-21831-05 Oetermining sequences from hemoglobin messenger RNA (mice, chickens, rabbits)

VIRUSES, ADENOVIRUSES
P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLO
** P50HL-15061-07 0010 Response of lung to injury - An animal model system for the study of bronchiolitis and its sequellae (dogs)

VIRUSES, ARBOVIRUSES (GENERAL)
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)
** P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of arenavirus and Bunyamweraviruses

VIRUSES, ARBOVIRUSES, HEMORRHAGIC FEVER VIRUSES
P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of arenavirus and Bunyamweraviruses

VIRUSES, ARBOVIRUSES B, JAPANESE B ENCEPHALITIS VIRUS
P01HL-08214-15 0023 Chemical and biological properties of lipids - Lipids in microorganisms and cell cultures (hamsters, mosquitoes)

VIRUSES, ARENAVIRUSES
** P01HL-11310-12 0100 Mechanisms of cardiovascular disease - Structure and replication of arenavirus and Bunyamweraviruses

VIRUSES, HEPATITIS
SEE ALSO LIVER OISDROERS, HEPATITIS SERUM
SEE ALSO LIVER OISOROERS, HEPATITIS VIRAL HUMAN
P60HL-17269-04 0035 National heart and blood vessel research and demonstration center - Blood resources--Research program in viral hepatitis (human)

VIRUSES, HEPATITIS A VIRUS (HAV)
SEE ALSO LIVER OISOROERS, HEPATITIS VIRAL HUMAN
R01HL-22838-01 Post-transfusion hepatitis in newborn children

VIRUSES, HEPATITIS B VIRUS (HBV)
SEE ALSO IMMUNOLOGY, ANTIGENS VIRAL, HEPATITIS B ANTIGEN (HBAG)
SEE ALSO LIVER OISOROERS, HEPATITIS VIRAL HUMAN
R01HL-22838-01 Post-transfusion hepatitis in newborn children

VIRUSES, HERPESVIRUSES
SEE ALSD NERVOUS OISDROERS CENTRAL, MAREK'S OISEASE
** R01HL-01803-23 0020 Arteriosclerosis, glomerulonephritis, rheumatic fever - Virus-induced arterosclerosis (chickens)
** R01HL-19381-03 Pathogenesis of viral induced atherosclerosis (human, chicken)

VIRUSES, HERPESVIRUSES, CYTOMEGALOVIRUSES
P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)
P01HL-06314-17 0061 Immunologic mechanisms in cardiovascular disease - Role of viruses in cardiovascular and renal disease (human, mice)
R01HL-22838-01 Post-transfusion hepatitis in newborn children

VIRUSES, HERPESVIRUSES, EB VIRUS
R01HL-22838-01 Post-transfusion hepatitis in newborn children

VIRUSES, MYXOVIRUSES, INFLUENZA VIRUSES
SEE ALSO VIRUS OISEASES, MYXOVIRUS, INFLUENZA
P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLO
R01HL-20002-03 Pulmonary complications of viral infections (children)

VIRUSES, MYXOVIRUSES, MEASLES VIRUS
R01HL-20002-03 Pulmonary complications of viral infections (children)

VIRUSES, MYXOVIRUSES, RESPIRATORY SYNCYTIAL VIRUSES
P50HL-14136-07 0003 Pulmonary SCDR--Airways obstructive diseases - Acute pediatric respiratory disease and CDLD
P50HL-19157-02 0011 Studies in cystic fibrosis and bronchiolitis - Pathogenesis of bronchiolitis (children)
R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)
R01HL-20002-03 Pulmonary complications of viral infections (children)

VIRUSES, ONCORNA, LEUKEMIA MOUSE
P01HL-21016-02 0012 Sickle cell anemia and other hemoglobinopathies - Stimulation of Hb F synthesis in a permanent cell line

VIRUSES, ONCORNA, LEUKEMIA MOUSE RAUSCHER
R01HL-03357-21 Humoral control of blood cell formation and release (rats, mice)

VIRUSES, PAPOVAVIRUSES, SV40 VIRUS
R01HL-20054-02 Cultured blood vessel cells--Pathophysiology (human, animals)

VIRUSES, PARAMYXOVIRUSES, NEWCASTLE DISEASE VIRUS
** R01HL-23588-01 NOV infection--Analysis at the subcellular level (chickens)

VIRUSES, PARAMYXOVIRUSES, PARAINFLUENZA VIRUSES
P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLO
R01HL-19651-03 Host factors in pathogenesis of respiratory disease (human, hamsters)
R01HL-20002-03 Pulmonary complications of viral infections (children)

VIRUSES, PICORNAVIRUSES, COXSACKIE VIRUSES
P01HL-06314-17 0061 Immunologic mechanisms in cardiovascular disease - Role of viruses in cardiovascular and renal disease (human, mice)
R01HL-18152-03 Vascular injury and atherosclerosis (mice, coxsackievirus)
R01HL-18535-03 Epidemiology and course of viral myopericarditis (human)
P01HL-18645-03 0006 Biology of the artery wall and atherosclerosis - The platelet and atherosclerosis (monkeys, baboons)
** R01HL-21047-01 Studies of coxsackievirus-induced myocarditis in mice

VIRUSES, RESPIRATORY (GENERAL)
SEE ALSO VIRUSES, AOENOVIRUSES
SEE ALSO VIRUSES, MYXOVIRUSES, INFLUENZA VIRUSES
SEE ALSO VIRUSES, PARAMYXOVIRUSES, PARAINFLUENZA VIRUSES
** P50HL-14136-07 0003 Pulmonary SCOR--Airways obstructive diseases - Acute pediatric respiratory disease and COLD
P50HL-14136-07 0017 Pulmonary SCOR--Airways obstructive diseases - Pediatric airways obstructive disease (human)
P50HL-14212-07 0006 Correlated studies of pulmonary fibrosis - Alveolar macrophage physiology (human, rodents, rabbits)
** P50HL-14212-07 0015 Correlated studies of pulmonary fibrosis - Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits)
P50HL-15389-07 0019 Pulmonary SCOR--Hypersensitivity pneumonitis - Microbiology core (human, animal)
** P50HL-19157-02 0011 Studies in cystic fibrosis and bronchiolitis - Pathogenesis of bronchiolitis (children)

VIRUSES, RNA VIRUSES (GENERAL)
SEE ALSO NUCLEIC ACIOS, RNA VIRAL
R01HL-10980-11 Ultrastructural renal pathology (human, rats)

VIRUSES, TOGAVIRUSES, RILEY VIRUS
P01HL-06314-17 0046 Immunologic mechanisms in cardiovascular disease - Mediators of immune injury (human, mice)

VISCERAL AFFERENT NERVES
SEE NERVOUS SYSTEM, AFFERENT NERVES, VISCERAL AFFERENT NERVES

VISCOSITY-VISCOELASTICITY
SEE PHYSICAL PROPERTIES, VISCOSITY-VISCOELASTICITY

VISCOSITY-VISCOELASTICITY, BLOOD
SEE BLOOO VISCOSITY-VISCDELASTICITY

VISCOSITY-VISCOELASTICITY, BODY FLUID
SEE BOOY FLUIDS, VISCOSITY-VISCOELASTICITY

VISION
SEE EYE, VISIDN

VISUAL AIDS
SEE EDUCATIDN, AUOIOVISUAL AND OTHER TRAINING AIOS

VISUAL FIELDS
SEE EYE, VISUAL FIELOS

VISUAL PATHWAYS
SEE BRAIN, VISUAL PATHWAYS

VISUAL PERCEPTION
SEE EYE, VISUAL PERCEPTION

VISUAL PIGMENTS
SEE EYE, VISUAL PIGMENTS

VISUAL STIMULUS
SEE EYE, VISUAL STIMULUS

VISUAL TRACKING
SEE PSYCHDMDTOR FUNCTION, VISUAL TRACKING

VISUALIZATION
SEE CARDIOVASCULAR VISUALIZATION*
SEE CEREBROVASCULAR VISUALIZATIDN*
SEE GASTROINTESTINAL VISUALIZATION*
SEE HEART VISUALIZATIDN*
SEE KIONEY VISUALIZATIDN*
SEE OPTICS, IMAGING-VISUALIZATION (GENERAL)*
SEE RESPIRATORY VISUALIZATION*

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

(contd)

VITAL CAPACITY
SEE RESPIRATORY FUNCTION, RESPIRATORY AIRWAY VOLUME

VITAMIN ANTAGONISTS
R01HL-15619-05 Regulation of prothrombin synthesis in cultured cells (rats)
** R01HL-19772-02 Role of warfarin metabolism in antivitamin K activity (rats)

VITAMIN A
SEE ALSO NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS A
R01HL-06481-15 Lipid metabolism (human, rats)
** P50HL-14214-07 0023 Newborn lung center for hyaline membrane disease - Regulation of fetal lung maturation--Vitamin A (rat, rabbit, sheep, human)
** P50HL-14236-05 0001 Prevention of premature arteriosclerosis - Metabolism and transport of cholesterol and vitamin A (human, rats)
** R01HL-15341-06 Lung hormonal and chromosomal regulation (rats, rabbits)
R01HL-19072-03 Modification of tissue injury in myocardial infarction (dogs, human)
** P50HL-21006-02 0003 Specialized center of research in arteriosclerosis - Transport of vitamin A in plasma (human, rat)

VITAMIN A ACID
R01HL-15341-06 Lung hormonal and chromosomal regulation (rats, rabbits)

VITAMIN A DEFICIENCY
SEE NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS A

VITAMIN B, BIOTIN
P01HL-11414-11 0035 Thrombosis and atherosclerosis program - Mechanism of action of vitamin K (rats)
R01HL-16628-05 Regulation of lipid metabolism (rats)

VITAMIN B, LIPOIC ACID
** R01HL-21912-01 Biosynthesis of lipoic acid and atherosclerosis (birds, chick embryos)

VITAMIN B2
SEE FLAVIN NUCLEOSIDES, RIBOFLAVIN

VITAMIN B3
SEE PYRIDINAMIDES, NICOTINAMIDE

VITAMIN B6, PYRIDOXAL ANALOGS
** R01HL-17552-03 Sickling inhibition by chemical modification of hemoglobin (human)

VITAMIN B12
R01HL-20996-02 Structural and reactivity of iron and cobalt complexes

VITAMIN BC
SEE FOLIC ACID

VITAMIN C
SEE ALSO NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS C
P01HL-06314-17 0053 Immunologic mechanisms in cardiovascular disease - Cellular functions controlled by cyclic GMP (human, mice, guinea pigs)
P01HL-06835-17 0016 Cardiovascular disease - Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs)
P01HL-06835-17 0021 Cardiovascular disease - Animal study in atherosclerosis (dog, guinea pig)
** P01HL-06835-17 0026 Cardiovascular disease - Lipoproteins (human, guinea pig)
P01HL-06835-17 0064 Cardiovascular disease - Studies in atherosclerosis (human, animals)
R01HL-12256-15 Polymerization of sickle-cell hemoglobin (human)
R01HL-19961-03 Management of hemosiderosis in thalassemia (children, adults)
R01HL-20783-02 Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs)

VITAMIN C DEFICIENCY
SEE NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS C

VITAMIN D GROUP, VITAMIN D
R01HL-15504-05 Animal model for studies on averting atherosclerosis (swine)
** R01HL-19399-02 Atherosclerosis--Early events and regression factors (rats)

VITAMIN D
SEE VITAMIN D GROUP, VITAMIN D

VITAMIN E
** R01HL-06481-15 Lipid metabolism (human, rats)
** P01HL-07896-15 0030 Environmental biomedical research program - Narcosis caused by inert gases at raised pressures (human, animals)
R01HL-11897-11 Pathogenesis of experimental atherosclerosis (rabbits, guinea pigs)
P50HL-15061-07 0012 Response of lung to injury - Hyperbaric oxygen, carbon monoxide, and ozone or peroxide toxicity (rats)
R01HL-16330-06 Aging-tissue injury and repair (rats)
R01HL-16674-05 Airborne metals and lung permeability (bullfrogs, rats)
R01HL-17719-03 Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs)
** R01HL-21431-02 Factor II antigen and coagulant activity (human, animals)
** R01HL-22951-01 Studies on the affect of vitamin E on platelets (human, rats)
** P60HL-23282-01 0003 Comprehensive hospital/community sickle cell center - Treatment of sickle cell ulcers with physical therapy and vitamin E (human)

VITAMIN E DEFICIENCY
SEE NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS E

VITAMIN G
SEE FLAVIN NUCLEOSIDES, RIBOFLAVIN

VITAMIN H
SEE VITAMIN B, BIOTIN

VITAMIN K
** P01HL-11414-11 0035 Thrombosis and atherosclerosis program - Mechanism of action of vitamin K (rats)
P50HL-14147-08 0003 Specialized center of research in thrombosis - Surface thrombogenicity and phospholipid vesicle physical properties
** R01HL-14847-07 Mechanism of action of vitamin K and anticoagulants (rats)
** R01HL-15619-05 Regulation of prothrombin synthesis in cultured cells (rats)
** R01HL-15728-06 The carbohydrate of the blood-clotting glycoproteins (mammals)
R01HL-18834-04 Metal-dependent complex formation in blood coagulation (human, cattle)
** R01HL-19322-03 Role of pituitary hormones in the action of vitamin K (rats)
** R01HL-19772-02 Role of warfarin metabolism in antivitamin K activity (rats)
R01HL-19982-02 Blood coagulation--Protein-metal ion-lipid interactions
R01HL-20161-02 Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle)
** R01HL-20577-03 The mechanism of action of vitamin K
R01HL-21113-01 Control mechanisms in coagulation (cattle)
** R01HL-21543-02 Structure-function relation of blood clotting proteins (rabbits)

VITAMIN K DEFICIENCY
SEE NUTRITIONAL ABNORMALITIES, HYPOVITAMINOSIS K

VITAMIN K3
R01HL-19532-01 Oxygen toxicity in the red cell (human)

VITAMIN M
SEE FOLIC ACID

VITAMIN P
SEE FLAVONOIDS

VITAMIN PP
SEE PYRIDINAMIDES, NICOTINAMIDE

VITAMIN THERAPY
SEE NUTRITION, DIET THERAPEUTIC, VITAMIN THERAPY (ALL ROUTES OF ADMINISTRATION)

VITAMINS BIOSYNTHESIS
** R01HL-21912-01 Biosynthesis of lipoic acid and atherosclerosis (birds, chick embryos)

VITAMINS METABOLISM
R01HL-06481-15 Lipid metabolism (human, rats)
** P50HL-14236-05 0001 Prevention of premature arteriosclerosis - Metabolism and transport of cholesterol and vitamin A (human, rats)
R01HL-14847-07 Mechanism of action of vitamin K and anticoagulants (rats)

VITRECTOMY
SEE EYE SURGERY, VITRECTOMY

VITREOUS BODY
SEE EYE, VITREOUS BODY

VITREOUS HEMORRHAGE
SEE EYE CIRCULATORY DISORDERS, RETINAL (INCLUDING VITREOUS) HEMORRHAGE

VLDL (LIPOPROTEINS)
SEE LIPOPROTEINS BLOOD, VLDL

VOCATIONAL GUIDANCE
SEE OCCUPATIONS, VOCATIONAL GUIDANCE

VOCATIONAL REHABILITATION
SEE HEALTH CARE SERVICES, REHABILITATION VOCATIONAL

VOLUNTARY HEALTH ORGANIZATIONS
SEE HEALTH AND SCIENTIFIC ORGANIZATIONS, VOLUNTARY HEALTH ORGANIZATIONS

VOMITING
SEE GASTROINTESTINAL DISORDERS, EMESIS

VON WILLEBRAND'S DISEASE
SEE BLOOD COAGULATION DISORDERS, VON WILLEBRAND'S DISEASE

WARFARIN
SEE BENZO-ALPHA-PYRONES, WARFARIN

WATER
SEE ALSO BIOLOGICAL TRANSPORT, FLUID EXCHANGE AND TRANSPORT
SEE ALSO BODY FLUID BALANCE, BODY WATER
SEE ALSO CELL FLUIDS, CELL WATER
SEE ALSO CHEMICAL REACTIONS, HYDRATION
SEE ALSO CHEMICAL REACTIONS, SOLVOLYSIS, HYDROLYSIS
SEE ALSO PHYSICAL PROPERTIES, SOLUTIONS, AQUEOUS
** R01HL-13989-05 Role of water in respiratory protein structure
R01HL-19491-03 Mechanism of iron storage and mobilization by ferritin (horse)
R01HL-22569-02 Intestinal secretion--Capillary and tissue forces (dogs, cats)

WATER BREATHING
SEE RESPIRATORY FUNCTION, LIQUIDS BREATHING

WATER-ELECTROLYTE BALANCE
SEE BODY FLUID BALANCE, IONIC

WATER ENVIRONMENT, AQUATIC BIOLOGY
SEE ALSO ARTHROPODS, CRUSTACEANS*
SEE ALSO FISH*
SEE ALSO MOLLUSKS*
P01HL-08805-15 0006 Regulation of ventilation and pulmonary circulation - Adaptation of lungfish--Estivation

WATER ENVIRONMENT, AQUATIC ORGANISMS, FRESH WATER*
R01HL-14523-07 Generation and regulation of force in smooth muscle (animals)

WATER ENVIRONMENT, DIVING AND SWIMMING
SEE ALSO ENVIRONMENT, ATMOSPHERIC PRESSURE, COMPRESSION-DECOMPRESSION
SEE ALSO INJURIES, DYSBARISM
M P01HL-07896-15 Environmental biomedical research program
** P01HL-07896-15 0008 Environmental biomedical research program - Otologic studies under hyperbaric conditions (human, animals)
** P01HL-07896-15 0009 Environmental biomedical research program - Decompression sickness and computation of safe diving tables (human, animals)
** P01HL-07896-15 0021 Environmental biomedical research program - Liquid breathing and lung lavage (human)
** P01HL-07896-15 0029 Environmental biomedical research program - Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals)
** P01HL-07896-15 0036 Environmental biomedical research program - Respiratory heat loss in deep diving (infants, dogs)
** P01HL-07896-15 0048 Environmental biomedical research program - Respiratory performance in divers at 1400 FSW
** P01HL-07896-15 0061 Environmental biomedical research program - Oxygen cost of breathing during graded exercise (human)
** P01HL-07896-15 0062 Environmental biomedical research program - Vectorcardiograms during diving (human, dogs)
M P01HL-08899-14 Tolerance to respiratory gases in health and disease
P01HL-08899-14 0020 Tolerance to respiratory gases in health and disease - Oxygen tolerance (human, rats, guinea pigs)
** P01HL-08899-14 0064 Tolerance to respiratory gases in health and disease - Narcotic effects of inert gases on functional systems (rats)
P01HL-08899-14 0072 Tolerance to respiratory gases in health and disease - Inert gas exchange isobaric gas counterdiffusion and decompression
P01HL-14388-07 0208 Regulation of the circulation in pathological states - Baroreceptor reflex function in normal and hypertensive man
M P01HL-14414-07 Environmental influences on cardiorespiratory and cellular functions
** P01HL-14414-07 0008 Environmental influences on cardiorespiratory and cellular functions - Energetics of swimming (human)
R01HL-16254-05 Pathogenesis of bubble and clot formation (fish)
P01HL-17731-04 0003 Physiological basis of pulmonary disease - Comparative physiology (vertebrates)
M R01HL-17896-03 Dehydropeptide renin substrates
** R01HL-22406-01 Isobaric vascular bubbles and decompression sickness (goats, models)
R01HL-22413-01 Enhanced detection of bubbles in Doppler flow signals (human)

WATER ENVIRONMENT, DIVING REFLEX
** P50HL-14214-07 0029 Newborn lung center for hyaline membrane disease - The diving reflex--Perinatal asphyxia, pulmonary ischemia and HMD (sheep)

WATER ENVIRONMENT, MARINE BIOLOGY
SEE ALSO WATER ENVIRONMENT, DIVING AND SWIMMING
SEE ALSO WATER ENVIRONMENT, OCEANIC RESEARCH
** P01HL-07896-15 0060 Environmental biomedical research program - Effect of pressure on development of marine crustacean larvae
** R01HL-15460-06 Molecular adaptation--Hemoglobin systems of fish (marine)

(contd)

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

R01HL-15991-05 Evaluation of heart stimulants in sea anemones
R01HL-18868-03 Oevelopment of vertebrate vascular control systems (reptiles, amphibians)
** R01HL-19163-02 Piscine erythrocytic necrosis in the Atlantic cod
** R01HL-19164-03 Piscine erythrocytic necrosis in the Atlantic cod

WATER ENVIRONMENT, OCEANIC RESEARCH
SEE ALSO WATER ENVIRONMENT, MARINE BIOLOGY
** P01HL-17731-04 0003 Physiological basis of pulmonary disease - Comparative physiology (vertebrates)

WATER INTAKE DRIVE
SEE NUTRIENT INTAKE ACTIVITY, THIRST

WATER INTOXICATION
SEE BODY FLUIO BALANCE, BODY WATER EXCESS

WATER LOSS, BODY WATER
SEE BDDY FLUID BALANCE, BODY WATER LOSS

WATER QUALITY
** R01HL-19073-02 Heart disease and drinking water at home

WATER SOLUBILITY
SEE PHYSICAL PROPERTIES, SOLUBILITY, WATER

WAVESHAPE PROCESSING ANALYSIS AND DISPLAY
SEE OPTICS, IMAGE PROCESSING ANALYSIS AND DISPLAY*

WAXES (LIPID)
SEE LIPIDS, WAXES

WEANLING (ANIMAL)
SEE AGE (ANIMAL), WEANLING

WEAR AND TEAR PIGMENT
SEE LIPOFUSCIN-CEROID

WEATHER
SEE ENVIRONMENT, ATMOSPHERE (WEATHER)

WELFARE SERVICE NONPSYCHIATRIC
SEE SOCIAL SERVICES (GENERAL)

WELFARE SERVICES PSYCHIATRIC
SEE MENTAL HEALTH SERVICES, SOCIAL SERVICE PSYCHOSOCIAL

WELFARE SERVICES PSYCHOSOCIAL
SEE MENTAL HEALTH SERVICES, SOCIAL SERVICE PSYCHOSOCIAL

WHIPLASH INJURIES
SEE INJURIES, HEAO AND NECK

WHITE AMERICANS
SEE SDCIAL GROUPS, ETHNIC, AMERICANS, WHITE AMERICANS

WHITE RACE
SEE SOCIAL GROUPS, RACIAL STOCKS, WHITE RACE

WHO
SEE HEALTH ANO SCIENTIFIC ORGANIZATIONS, INTERNATIONAL, WHO

WHOLE BODY PERFUSION (TOTAL BLOOD REPLACEMENT)
SEE BLOOD TREATMENT, WHOLE BODY PERFUSION (BLOOD REPLACEMENT)

WILM'S TUMOR
SEE NEOPLASMS DF URINARY TRACT, KIONEY NEOPLASMS, NEPHROBLASTOMA

WILSON'S DISEASE
SEE METABOLIC OISDRDERS INBORN, HEPATOLENTICULAR DEGENERATION

WITHDRAWAL, DRUG
SEE ORUGS WITHDRAWAL (SYMPTOMS)

WOLFF-PARKINSON-WHITE SYNDROME
SEE CONGENITAL ABNDRMALITIES, HEART OEFECTS, WDLFF-PARKINSON-WHITE SYNDROME

WOLMAN'S DISEASE
SEE METABDLIC DISDRDERS INBORN, LIPID (NEUTRAL) STDRAGE, WOLMAN'S OISEASE

WOMEN
SEE SEX, FEMALE

WOOLLY MONKEYS
SEE MAMMALS, PRIMATES, MONKEYS AND APES (ANTHRDPOIOS, NON-HUMAN), NEW WDRLO MONKEYS (PLATYRHINES)*

WORK
SEE DCCUPATIONS

WORKSHOP
SEE INFDRMATIDN OISSEMINATIDN, MEETINGS CONFERENCES SYMPOSIA, WORKSHOP

WORLD HEALTH ORGANIZATION
SEE HEALTH ANO SCIENTIFIC ORGANIZATIONS, INTERNATIDNAL, WHO

WOUND HEALING
SEE INJURIES, WOUND HEALING

WOUNDS
SEE INJURIES, WOUNOS

XANTHINE(S)
SEE PURINES, XANTHINES

XANTHOMA TUBEROSUM MULTIPLEX
SEE METABDLIC OISORDERS INBORN, HYPERLIPOPRDTEINEMIAS FAMILIAL, TYPE II

XANTHOMATOSIS
SEE LIPOIDAL OISORDERS, XANTHOMATOSIS

XANTHOMATOSIS, CEREBROTENDINOUS
SEE LIPDGRANULOMATOSES, CEREBROTENOINOUS XANTHOMATOSIS

XANTHOMATOSIS (FAMILIAL) WITH ADRENAL CALCIFICATION
SEE METABOLIC OISOROERS INBORN, LIPID (NEUTRAL) STORAGE, WOLMAN'S DISEASE

X CHROMOSOME
SEE GENETICS, CHRDMOSOMES, SEX CHROMDSOMES

XENOGRAFT
SEE TISSUE COMPATIBILITY-TRANSPLANT, TRANSPLANTATION HETEROLOGOUS

XENON
SEE GAS ELEMENTS, XENON

XENON RADIOISOTOPES (133)
SEE RAOIDISOTOPES, XENON

XERODERMOSTEOSIS
SEE CONNECTIVE TISSUE OISORDERS, SJOGREN'S SYNOROME

XEROGRAPHIC RADIOGRAPHS
SEE RADIOGRAPHY, XEROGRAPHY

XEROGRAPHY
SEE RAOIOGRAPHY, XEROGRAPHY

X-RAY DENSITOMETRY
SEE PHYSICAL PROPERTIES, DENSITOMETRY*

X-RAY DIFFRACTION (CHEMISTRY)
SEE CHEMISTRY, ANALYTICAL METHODS, X-RAY STRUCTURE ANALYSIS*

X-RAY MICROANALYSIS (ELECTRON PROBE)
SEE CHEMISTRY, ANALYTICAL METHOOS, SPECTROMETRY, ELECTRON PROBE*

X-RAY RADIOGRAPHY
SEE RADIOGRAPHY*

X-RAY SCANNING
SEE RAOIOGRAPHY, SCANNING (GENERAL)*

X-RAY SCATTERING (CHEMISTRY)
SEE CHEMISTRY, ANALYTICAL METHOOS, X-RAY STRUCTURE ANALYSIS*

X-RAY SPECTROMETRY
SEE CHEMISTRY, ANALYTICAL METHODS, SPECTROMETRY, X-RAY*

X-RAY STRUCTURE ANALYSIS (CHEMISTRY)
SEE CHEMISTRY, ANALYTICAL METHODS, X-RAY STRUCTURE ANALYSIS*

X-RAY VIDEODENSITOMETRY
SEE CARDIOVASCULAR VISUALIZATION, ROENTGEN VIOEDOENSITOMETRY*

XYLOSE
SEE PENTOSES, XYLOSE

Y CHROMOSOME
SEE GENETICS, CHROMOSOMES, SEX CHROMOSOMES

YOGA
SEE PSYCHIC ACTIVITY LEVEL, TRDPHDTRDPIC STATE, MEDITATION

YOHIMBINE
SEE ALKALDIOS, RAUWOLFIA TYPE, YOHIMBINE

YOUNG ADULTS
SEE AGE (HUMAN), AOULT, YOUNG (21 TO 44 YRS)

YOUNG (ANIMAL)
SEE AGE (ANIMAL), JUVENILE (POST-INFANCY TO PUBERTY)

YOUTH
SEE CHILDREN

YOUTH MENTAL HEALTH (SERVICES)
SEE MENTAL HEALTH (SERVICES), YOUTH

Z PROTEIN (FATTY ACID BINDING PROTEIN)
SEE PROTEINS, Z PROTEIN

ZAZEN
SEE PSYCHIC ACTIVITY LEVEL, TRDPHDTROPIC STATE, MEOITATION

ZELLWEGER SYNDROME
SEE METABOLIC DISDROERS INBORN, CEREBRO-HEPATO-RENAL SYNOROME

ZEN BUDDHISM
SEE PSYCHIC ACTIVITY LEVEL, TROPHOTROPIC STATE, MEOITATION

ZETA POTENTIAL
SEE ELECTROPOTENTIALS, ZETA POTENTIAL

ZINC (COMPOUNDS)
SEE METALS, HEAVY METALS, ZINC

ZYMOGENS
SEE ENZYMES, ZYMOGENS

ZYMOHEXASE
SEE ALOOLASES

ZYMOSAN
SEE IMMUNOLOGY, ANTIGENS MICROBIAL, ZYMOSAN

*Excludes routine methodology OR covers only general projects which preclude indexing at the specific level.
**Oriented significantly to above subject.

M Grant has subprojects describing specific research aspects.
See Appendix for investigator's name and grant number.

(contd)

N01HB-22919-0B (HCRG) DIEDERICH, DENNIS, KANSAS CITY, KANSAS. Hemoglobin carbamylation in the treatment of sickle cell anemia (human, dogs).

N01HB-22922-D8 (HCRG) BALCERZAK, STANLEY P, COLUMBUS, OHIO. Develop effective therapy for sickle cell disease (human, dogs).

N01HB-42971-12 (HCRG) MOOR-JANKOWSKU, JAN, NEW YORK, NEW YORK. Chimpanzees for hepatitis research.

N01HB-53016-D5 (HCRG) MC MILLAN, C W, CHAPEL HILL, NORTH CAROLINA. Cooperative study of factor VIII inhibitors in patients with hemophilia

N01HB-5301B-D4 (HCRG) SHAPIRO, SANDOR S, PHILADELPHIA, PENNSYLVANIA. Cooperative studies of factor VIII inhibitors in patients with hemophilia.

N01HB-53D19-06 (HCRG) LEVINE, PETER H, WORCESTER, MASSACHUSETTS. Cooperative study of factor VIII inhibitors in patients with hemophilia

N01HB-53020-04 (HCRG) ALEDORT, LOUIS M, NEW YORK, NEW YORK. Cooperative study of factor VIII inhibitors in patients with hemophilia.

N01HB-53D21-D5 (HCRG) EYSTER, M ELAINE, HERSHEY, PENNSYLVANIA. Cooperative study of factor VIII inhibitors in patients with hemophilia.

N01HB-53023-D4 (HCRG) HATHAWAY, WILLIAM E, DENVER, COLORADO. Cooperative study of factor VIII inhibitors in patients with hemophilia.

N01HB-53D24-04 (HCRG) GOODNIGHT, SCOTT, PORTLAND, OREGON. Cooperative studies of factor VIII inhibitors in patients with hemophilia.

N01HB-53D25-D5 (HCRG) LUSHER, JEANNE M, DETROIT, MICHIGAN. Cooperative studies of factor VIII inhibitors in patients with hemophilia.

N01HB-53035-D4 (HCRG) SHAPIRO, SANDOR S, PHILADELPHIA, PENNSYLVANIA. Factor VIII inhibitors in patients with hemophilia.

N01HB-629DB-D7 (HCRG) SZMUNESS, WOLF, NEW YORK, NEW YORK. Maternal to infant transmission of hepatitis B (human).

N01HB-62962-02 (HCRG) FINCH, CLEMENT A, SEATTLE, WASHINGTON. Red cell distributions in cyanate-treated blood (human, sheep).

N01HB-62963-03 (HCRG) BORTIN, MORTIMER M, MILWAUKEE, WISCONSIN. International bone marrow transplant registry.

N01HB-62964-03 (HCRG) RIMM, ALFRED A, MILWAUKEE, WISCONSIN. International bone marrow transplant registry.

N01HB-62967-03 (HCRG) LIEN, DONNA M, ARLINGTON, VIRGINIA. Blood banking services on a regional basis.

N01HB-6296B-D7 (HCRG) SWITALSKI, RICHARD, ARLINGTON, VIRGINIA. National blood banking data needs.

N01HB-62970-02 (HCRG) HERZIG, GEOFFREY P, ST LOUIS, MISSOURI. Collection, function and transfusion of granulocytes.

N01HB-62971-03 (HCRG) GALE, ROBERT P, LOS ANGELES, CALIFORNIA. Collection, function and transfusion of granulocytes.

N01HB-62972-D5 (HCRG) MC CULLOUGH, JEFFREY, MINNEAPOLIS, MINNESOTA. Collection, function and transfusion of granulocytes.

N01HB-62973-05 (HCRG) STRAUSS, RONALD G, IOWA CITY, IOWA. Collection, function and transfusion of granulocytes.

N01HB-72916-02 (HCRG) BREWER, GEORGE J, ANN ARBOR, MICHIGAN. Crisis and pain symptom prophylaxis by oral zinc therapy (human).

N01HB-729B2-03 (HCRG) CHEN, EDWIN H, CHICAGO, ILLINOIS. Statistical coordinating center for sickle cell disease.

N01HB-B2924-0D (HCRG) MURPHY M J JR, NEW YORK, NEW YORK. Source of human urinary erythropoietin.

N01HB-B2926-00 (HCRG) DUKES, PETER P, LOS ANGELES, CALIFORNIA. Source of human urinary erythropoietin.

N01HI-02216-10 (HCRG) SANCES, ANTHONY, JR, MILWAUKEE, WISCONSIN. To develop biological flow NMR concept (human, mammals non human).

N01HI-32926-10 (HCRG) INNERARITY, THOMAS L, SPRINGFIELD, VIRGINIA. Analysis of lipoproteins (animals).

N01HI-72900-D1 (HCRG) JUDY, JESSE N, LURAY, VIRGINIA. Maintenance of the NHLBI sheep colony.

N01HI-72947-01 (HCRG) DETRE, KATHERINE M, PITTSBURGH, PENNSYLVANIA. Coordination center-Coronary intervention.

R01HL-D0DB2-30 (PHY) ROOS, ALBERT, WASHINGTON UNIVERSITY, 660 SOUTH EUCLID, ST LOUIS, MO. Transmembrane movements (barnacles, frogs, rats).

R01HL-DD340-29 (CVB) GOLDBERG, MARTIN, HOSP OF UNIV OF PENNSYLVANIA, 34DD SPRUCE ST, 86D GATES BLDG, PHILADELPHIA, PA. Electrolyte disturbance in cardio-renal disease (human, dogs, rats).

RD1HL-DD4B7-29 (CVA) GREEN, HAROLD D, BOWMAN GRAY SCHOOL OF MEDICINE, 300 SOUTH HAWTHORNE ROAD, WINSTON SALEM, N C. Vasomotor tone and venous return (human, dogs, monkeys.

R01HL-0D759-29 (CVB) COHEN, JORDAN J, NEW ENGLAND MEDICAL CTR HOSP, 171 HARRISON AVENUE, BOSTON, MASS. Regulation of electrolyte and acid base equilibrium (dogs).

R01HL-D1015-27 (CVB) HAWTHORNE, EDWARD W, HOWARD UNIVERSITY, 52D W STREET, N W, WASHINGTON, D C. Hypertension and left ventricular hypertrophy (dogs).

R01HL-D14B6-23 (CVB) LEPESCHKIN, EUGENE, CARDIOVASCULAR RESEARCH UNIT, C-449 GIVEN BUILDING, BURLINGTON, VT. Quantitative study of T-wave mechanisms (human, rabbits, dogs, chickens).

R01HL-D1601-30 (HEM) LEVIN, JACK, JOHNS HOPKINS HOSPITAL, 601 NORTH BROADWAY, BALTIMORE, MD. Blood coagulation and hemorrhagic disease (horseshoe crabs).

RD1HL-01623-24 (PTHA) KRAKOWER, CECIL A, UNIVERSITY OF ILLINOIS, 1853 W POLK ST, CHICAGO, ILL. Antigens related to graft rejection (rabbits, rats).

RD1HL-0164B-31 (HEM) BRINKHOUS, KENNETH M, UNIVERSITY OF NORTH CAROLINA, DEPT OF PATHOLOGY, CHAPEL HILL, N C. Blood coagulation and hemophilia (dogs, swine).

RD1HL-01661-27 (HEM) RATNOFF, OSCAR D, UNIV HOSPITALS OF CLEVELAND, DEPARTMENT OF MEDICINE, CLEVELAND, OHIO. Hemostatic mechanisms (human).

R01HL-D1662-25 (BBCA) SCHERAGA, HAROLD A, CORNELL UNIVERSITY, DEPARTMENT OF CHEMISTRY, ITHACA, N Y. Equilibria in the fibrinogen-fibrin conversion (human, cattle).

R01HL-01755-25 (HED) ASSALI, NICHOLAS S, UNIVERSITY OF CALIFORNIA, 4D5 HILGARD AVENUE, LOS ANGELES, CALIF. Fetal and neonatal cardiovascular function (sheep).

RD1HL-D1770-26 (CBY) PEASE, DANIEL C, UNIVERSITY OF CALIFORNIA, 4D5 HILGARD AVENUE, LOS ANGELES, CALIF. Structural aspects of lung surfactant system (rats).

RD1HL-D1BD3-23 (PTHA) BECKER, CARL G, CORNELL UNIVERSITY, 13DD YORK AVENUE, NEW YORK, N Y. Arteriosclerosis, glomerulonephritis, rheumatic fever.

RD1HL-01BD3-23 DDD1 (PTHA) BECKER, CARL G. Arteriosclerosis, glomerulonephritis, rheumatic fever-Post-streptococcal glomerulonephritis (rabbit).

R01HL-D1B03-23 DD05 (PTHA) MINICK, C RICHARD. Arteriosclerosis, glomerulonephritis, rheumatic fever-Immunologic and dietary synergy in the pathogenesis of atherosclerosis (rabbits).

RD1HL-D1BD3-23 DD1D (PTHA) ALONSO, DANIEL R. Arteriosclerosis, glomerulonephritis, rheumatic fever-Atherosclerosis induction-Graft rejection and hypercholesterolemia (rabbits).

RD1HL-D1BD3-23 D011 (PTHA) BECKER, CARL G. Arteriosclerosis, glomerulonephritis, rheumatic fever-Immunopathologic consequences of cigarette smoking (human, rabbits, plants)

R01HL-D1BD3-23 DD14 (PTHA) MINICK, C RICHARD. Arteriosclerosis, glomerulonephritis, rheumatic fever-Regenerated endothelium on lipid accumulation in arterial wall (rabbit).

RD1HL-D1BD3-23 0015 (PTHA) MINICK, C RICHARD. Arteriosclerosis, glomerulonephritis, rheumatic fever-Immunologic endothelial injury and lipid diet atherosclerosis (rabbits, monkey).

RD1HL-01B03-23 D016 (PTHA) SENTERFIT, B LAURENCE. Arteriosclerosis, glomerulonephritis, rheumatic fever-Synthesis of basement membrane collagen by endothelial cells (human).

RD1HL-D1BD3-23 D017 (PTHA) BECKER, CARL G. Arteriosclerosis, glomerulonephritis, rheumatic fever-Contractile and relaxing proteins of blood vessels and platelets (mammals, human).

RD1HL-D1BD3-23 001B (PTHA) BECKER, CARL G. Arteriosclerosis, glomerulonephritis, rheumatic fever-Fetal immunization in pathogenesis of glomerulonephritis in adult (rabbit).

RD1HL-D1B03-23 0D19 (PTHA) MURPHY, GEORGE E. Arteriosclerosis, glomerulonephritis, rheumatic fever-Pathogenesis of rheumatic heart disease (rabbit).

RD1HL-D1BD3-23 0D2D (PTHA) MINICK, RICHARD C. Arteriosclerosis, glomerulonephritis, rheumatic fever-Virus-induced arterosclerosis (chickens).

RD1HL-01BD3-23 D021 (PTHA) BECKER, CARL G. Arteriosclerosis, glomerulonephritis, rheumatic fever-Induction of IgE antibodies to antigen from tobacco and cigarette smoke (rabbits).

RD1HL-D1BD3-23 D022 (PTHA) BECKER, CARL G. Arteriosclerosis, glomerulonephritis, rheumatic fever-Cardiac and pulmonary anaphylaxis induced by tobacco glycoprotein (rabbits).

RD1HL-D1B13-25 (PHRA) HAUGAARD, NIELS, DEPARTMENT OF PHARMACOLOGY, 36TH & HAMILTON WALK, PHILADELPHIA, PA. Regulation of metabolism by drugs and hormones (rats).

R01HL-01974-24 (PHY) POST, ROBERT L, VANDERBILT UNIVERSITY, DEPARTMENT OF PHYSIOLOGY, NASHVILLE, TENN. Ion-pump in the erythrocyte (rabbits, guinea pigs).

RD1HL-01979-22 (PTHA) SNYDER, ROBERT L, ZOOLOGICAL SOC OF PHILADELPHIA, 34TH ST AND GIRARD AVENUE, PHILADELPHIA, PA. Arteriosclerosis in zoo animals on controlled diets (animals).

R01HL-D2033-23 (MET) TREADWELL, CARLETON R, GEORGE WASHINGTON UNIVERSITY, 901 23RD STREET, N W, WASHINGTON, D C. Regulation of cholesterol esters in blood and tissues (rat, cattle, human).

RD1HL-02063-23 (MBY) MARINETTI, GUIDO V, UNIVERSITY OF ROCHESTER MED CT, 26D CRITTENDEN BOULEVARD, ROCHESTER, N Y. Biochemistry and function of lipids and cell membranes (human, yeast, animals).

R01HL-02212-23 (SSS) LORAND, LASZLO, NORTHWESTERN UNIVERSITY, BIOCHEM & MOLECULAR BIO DEPT, EVANSTON, ILL. Coagulation of blood (human).

R01HL-0222B-24 (PHY) SCHMIDT-NIELSEN, KNUT, DUKE UNIVERSITY, DEPARTMENT OF ZOOLOGY, DURHAM, N C. Respiration, circulation, and heat regulation in exercise (bird, mammals).

R01HL-02254-23 (HEM) LEWIS, JESSICA H, UNIVERSITY OF PITTSBURGH, DEPARTMENT OF MEDICINE, PITTSBURGH, PA. Blood coagulation and hemorrhagic disease (human, animals).

R01HL-02262-23 (HEM) REEVE, E BASIL, UNIVERSITY OF COLORADO, 4200 EAST NINTH AVENUE, DENVER, COLO. Mechanisms regulating plasma proteins and solutes (human, dogs).

RD1HL-D2334-23 (GMB) GOTTSCHALK, CARL W, UNIVERSITY OF NORTH CAROLINA, DEPARTMENT OF MEDICINE, CHAPEL HILL, N C. Micropuncture study of kidney function (rats, animals).

R01HL-D2363-20 (SGYA) SCHLOERB, PAUL R, UNIVERSITY OF KANSAS, 39TH & RAINBOW, KANSAS CITY, KANS. Kinetics of water and electrolytes in shock (dogs, rats).

R01HL-D2477-23 (PC) BLOCH, KONRAD E, HARVARD UNIVERSITY, 12 OXFORD STREET, CAMBRIDGE, MASS. Biosynthesis and function of lipids (microorganisms, rats).

R01HL-02493-22 (CVB) BARGER, A CLIFFORD, HARVARD MEDICAL SCHOOL, 25 SHATTUCK STREET, BOSTON, MASS. Kidney function in experimental heart failure (dogs, rats).

RD1HL-0255B-22 (BIO) SCHROEDER, WALTER A, CALIFORNIA INST OF TECHNOLOGY, 12D1 E CALIFORNIA BLVD, PASADENA, CALIF. Structure-function relationships in the heme proteins (human, cattle).

R01HL-02751-21 (PC) PETERS, THEODORE, JR, MARY IMOGENE BASSETT HOSPITAL, ATWELL ROAD, COOPERSTOWN, N Y. Function and metabolism of serum albumin (mammals, fish, amphibians).

R01HL-D2799-22 (HEM) CHARACHE, SAMUEL, JOHNS HOPKINS HOSPITAL, DEPARTMENT OF MEDICINE, BALTIMORE, MD. Abnormal hemoglobins (human).

RD1HL-02B35-21 (PHRA) ROSS, CHARLES R, S U N Y - UPSTATE MED CTR, 750 E ADAMS STREET, SYRACUSE, N Y. Renal transport carrier for organic compounds (dogs, rats).

R01HL-02BBB-22 (PHY) TENNEY, STEPHEN M, DARTMOUTH MEDICAL SCHOOL, DEPARTMENT OF PHYSIOLOGY, HANOVER, N H. Interrelationships of circulation and respiration.

R01HL-02942-22 (PC) BERENSON, GERALD S, LOUISIANA STATE UNIVERSITY, 1542 TULANE AVENUE, NEW ORLEANS, LA. Biochemistry of cardiovascular connective tissue (human, cattle, primates).

R01HL-02953-17 (PHRA) MORAN, NEIL C, EMORY UNIVERSITY, DEPARTMENT OF PHARMACOLOGY, ATLANTA, GA. Autonomic and cardiovascular pharmacology (rats, rabbits, dogs, guinea pigs).

RD1HL-02965-22 (MET) EDER, HOWARD A, ALBERT EINSTEIN COLL OF MED, 13DD MORRIS PARK AVENUE, BRONX, N Y. Metabolism of plasma lipoproteins (rats, chickens, human).

R01HL-029B6-21 (PTHA) SPARGO, BENJAMIN H, UNIVERSITY OF CHICAGO, 950 EAST 59TH STREET, CHICAGO, ILL. Zonal renal change with potassium deficiency (rats, human).

P01HL-03174-23 (HL88) BENDITT, EARL P, UNIVERSITY OF WASHINGTON, PATHOLOGY DEPARTMENT, SEATTLE, WASH. Mechanisms of acute vascular reaction to injury.

P01HL-03174-23 0001 (HL88) SCHWARTZ, STEPHEN M. Mechanisms of acute vascular reaction to injury--Response of the vascular intima to injury (human, rats).

P01HL-03174-23 0002 (HL88) ERIKSEN, NILS. Mechanisms of acute vascular reaction to injury--Chemical structure, pathological significance of amyloid substance (human, mice).

P01HL-03174-23 0005 (HL88) STRIKER, GARY E. Mechanisms of acute vascular reaction to injury--Renal small vessel disease--Cell and matrix response (human, mice).

P01HL-03174-23 0006 (HL88) BENDITT, EARL P. Mechanisms of acute vascular reaction to injury--Atherosclerotic plaque studies using mosaic analysis (human).

P01HL-03174-23 0007 (HL88) VRACKO, RUDOLF. Mechanisms of acute vascular reaction to injury--Healing of injured myocardium--Basal lamina scaffold (human, rats, dogs).

P01HL-03174-23 0009 (HL88) LAGUNOFF, DAVID. Mechanisms of acute vascular reaction to injury--Mast cell lipid interaction (human, rats).

P01HL-03174-23 0010 (HL88) KOCAN, RICHARD M. Mechanisms of acute vascular reaction to injury--Search for mutagens in the human blood (bacteria, animals).

P01HL-03174-23 0011 (HL88) JUCHAU, MONT R. Mechanisms of acute vascular reaction to injury--Mutagen metabolism by artery wall in etiology of atherosclerosis (human, animals).

P01HL-03174-23 0012 (HL88) MOSS, NED. Mechanisms of acute vascular reaction to injury--Human atherosclerotic plaque in organ culture.

P01HL-03174-23 0013 (HL88) CHI, EMIL Y. Mechanisms of acute vascular reaction to injury--Surface morphology of the aorta in normal and injured states (rats, rabbits).

R01HL-03180-21 (5GY8) LEEDS, SANFORD E, MT ZION HOSPITAL & MEDICAL CTR, POST OFFICE BOX 7921, SAN FRANCISCO, CALIF. Relation of lymphatics to cardiopulmonary function (dogs).

R01HL-03181-21 (SGYA) SCHENK, WORTHINGTON G, JR, SURGICAL RESEARCH LABORATORIES, 462 GRIDER STREET, BUFFALO, N Y. Hemodynamics as applied to surgical problems.

R01HL-03181-21 0020 (5GYA) SCHENK, WORTHINGTON G, JR. Hemodynamics as applied to surgical problems--Blood flow measurement--Cardiac output and regional flows (dogs).

R01HL-03181-21 0025 (SGYA) SCHENK, WORTHINGTON G, JR. Hemodynamics as applied to surgical problems--Vascular stenosis (dogs).

R01HL-03181-21 0027 (SGYA) SCHENK, WORTHINGTON G, JR. Hemodynamics as applied to surgical problems--Hemodynamic studies of the GI tract (dogs).

R01HL-03181-21 0028 (SGYA) SCHENK, WORTHINGTON G, JR. Hemodynamics as applied to surgical problems--Extra-renal factors in the hypertension of coarctation (dog).

R01HL-03181-21 0029 (SGYA) SCHENK, WORTHINGTON G, JR. Hemodynamics as applied to surgical problems--Indocyanine green clearance for estimation of hepatic blood flow (human).

R01HL-03290-22 (PHY) HONIG, CARL R, UNIVERSITY OF ROCHESTER, 601 ELMWOOD AVENUE, ROCHESTER, N Y. Controls of cardiac and vascular smooth muscles (cats, rats, dogs).

R01HL-03299-21 (NTN) KRITCHEVSKY, DAVID, WISTAR INSTITUTE, 36TH AND SPRUCE STREETS, PHILADELPHIA, PA. Dietary effects on cholesterol metabolism (rats, rabbits).

R01HL-03303-21 (CVA) WALKER, W GORDON, JOHNS HOPKINS HOSPITAL, 601 NORTH BROADWAY, BALTIMORE, MD. Factors regulating electrolyte excretion by the kidney (human, dogs).

R01HL-03341-22 (EDC) HAMES, CURTIS G, 2 NORTH NEWTON STREET, CLAXTON, GA. Epidemiology of atherosclerosis in Evans Co Georgia.

R01HL-03357-21 (HEM) GORDON, ALBERT S, NEW YORK UNIVERSITY, 100 WASHINGTON SQUARE EAST, NEW YORK, N Y. Humoral control of blood cell formation and release (rats, mice).

R01HL-03424-21 (HEM) SEEGERS, WALTER H, WAYNE STATE UNIVERSITY, 540 E CANFIELD, DETROIT, MICH. Formation and properties of prothrombin derivatives (human, animals).

R01HL-03429-18 (EDC) ROSENMAN, RAY H, MOUNT ZION HOSP & MED CENTER, POST OFFICE BOX 7921, SAN FRANCISCO, CALIF. Central nervous system and coronary heart disease (human).

R01HL-03734-18 (MET) HASHIMOTO, SAM, VA WADSWORTH HOSPITAL CENTER, BLDG 118, ROOM 120, LOS ANGELES, CALIF. Metabolism of arterial tissue in atherosclerosis (rabbits).

R01HL-03919-20 (ALY) MC CARTY, MACLYN, ROCKEFELLER UNIVERSITY, 1230 YORK AVENUE, NEW YORK, N Y. The cell suface of streptococci (rats, human).

R01HL-03941-18 (CVA) GREISS, FRANK C, JR, BOWMAN GRAY SCHOOL OF MEDICINE, DEPT OF OBSTETRICS & GYNECOLOG, WINSTON-SALEM, N C. Uterine blood flow and changes in pregnancy (sheep).

R01HL-04300-20 (PTHA) JONES, DAVID B, S U N Y - UPSTATE MED CTR, 750 EAST ADAMS STREET, SYRACUSE, N Y. Fine structure of diseased glomeruli (human, rats, dogs).

R01HL-04366-19 (SSS) ROBBINS, KENNETH C, MICHAEL REESE RES FOUNDATION, 530 EAST 31ST STREET, CHICAGO, ILL. Plasminogen--Activation and structure-function relations (mammals, birds).

R01HL-04442-20 (PC) RABINOWITZ, MURRAY, UNIVERSITY OF CHICAGO, 950 EAST 59TH STREET, CHICAGO, ILL. Mitochondrial assembly and replication (fungi, wheat).

R01HL-04457-20 (PHY) FORSTER, ROY P, DARTMOUTH COLLEGE, DEPT OF BIOLOGICAL SCIENCES, HANOVER, N H. Cellular aspects of active transport (fish, rabbits, anurans, turtles).

R01HL-04512-19 (C8Y) WISSIG, STEVEN L, UNIVERSITY OF CALIFORNIA, PARNASSUS AVE, DEPT OF ANATOMY, SAN FRANCISCO, CALIF. Ultrastructural studies of capillary permeability (rats, mice).

R01HL-04612-20 (HEM) ERSLEV, ALLAN J, CAROEZA FDN/HEMATOLOGIC RES, 1015 WALNUT ST, CURTIS BLDG, PHILADELPHIA, PA. Feedback between red cell production and oxygen transport (rabbits, rats).

R01HL-04651-19 (SGY8) GLENN, WILLIAM W, YALE UNIVERSITY, 333 CEDAR STREET, NEW HAVEN, CONN. Remote stimulation by radio-frequency transmission (dogs, human).

P01HL-04664-18 (HEP) WOOD, EARL H, MAYO FOUNDATION, 200 FIRST STREET SOUTHWEST, ROCHESTER, MINN. Cardiovascular and lung dynamics.

P01HL-04664-18 0001 (HEP) WOOD, EARL H. Cardiovascular and lung dynamics--X-ray projection image videodensitometry (dogs).

P01HL-04664-18 0002 (HEP) WOOD, EARL H. Cardiovascular and lung dynamics--X-ray cross section imaging of organs (dogs).

P01HL-04664-18 0003 (HEP) WOOD, EARL H. Cardiovascular and lung dynamics--X-ray projection image videometry (human, dogs).

P01HL-04664-18 0004 (HEP) WOOD, EARL H. Cardiovascular and lung dynamics--X-ray cross section imaging of the circulation (dogs).

P01HL-04664-18 0005 (HEP) WOOD, EARL H. Cardiovascular and lung dynamics--Applications of current research, equipment and techniques.

P01HL-04664-18 0006 (HEP) WOOD, EARL H. Cardiovascular and lung dynamics--Cross section imaging of organ functions using emitted radiation (dogs).

P01HL-04664-18 0007 (HEP) WOOD, EARL H. Cardiovascular and lung dynamics--Development and application of ultrasound imaging techniques.

P01HL-04664-18 0008 (HEP) WOOD, EARL H. Cardiovascular and lung dynamics--Micrographic video imaging technique.

P01HL-04664-18 0009 (HEP) WOOD, EARL H. Cardiovascular and lung dynamics--Biological signal and image processing techniques (dogs).

P01HL-04664-18 0010 (HEP) WOOD, EARL H. Cardiovascular and lung dynamics--Left ventricular dynamics (human).

P01HL-04664-18 0011 (HEP) URIE, PAUL M. Cardiovascular and lung dynamics--Detection of abnormal segments of the human ventricle by measure of asynergy.

P01HL-04664-18 0012 (HEP) URIE, PAUL M. Cardiovascular and lung dynamics--Quantitative single plane left ventricular angiography (human).

P01HL-04664-18 0013 (HEP) MARSHALL, HIRAM W. Cardiovascular and lung dynamics--Ventricular function in coronary disease using NTG and ventriculograms (human).

P01HL-04664-18 0014 (HEP) CLAYTON, PAUL D. Cardiovascular and lung dynamics--Clinical application of computer analysis of ventricular wall motion.

P01HL-04664-18 0015 (HEP) CLAYTON, PAUL D. Cardiovascular and lung dynamics--Computer system for the cardiovascular laboratory.

P01HL-04664-18 0016 (HEP) BARRETT, WILLIAM A. Cardiovascular and lung dynamics--Computerized roentgenographic determination of total lung capacity.

R01HL-04666-19 (CVA) ESCHER, DORIS J, MONTEFIORE HOSPITAL & MED CTR, 111 EAST 210TH STREET, BRONX, N Y. Artificially paced hearts--Technology, physiology (human, dogs).

R01HL-04697-17 (TEC) KEYS, ANCEL, UNIVERSITY OF MINNESOTA, STADIUM GATE 27, MINNEAPOLIS, MINN. International heart disease epidemiology (human).

R01HL-05062-18 (MET) BAILEY, J MARTYN, DEPARTMENT OF BIOCHEMISTRY, 2300 EYE STREET, N W, WASHINGTON, D C. Lipid metabolism in cultured cells (human, rats, rabbits).

R01HL-05168-19 (HEM) HUISMAN, TITUS H, MEDICAL COLLEGE OF GEORGIA, 1459 GWINNETT ST, AUGUSTA, GA. Inhomogencity of hemoglobin types (human).

R01HL-05209-18 (NTN) KRITCHEVSKY, DAVID, WISTAR INSTITUTE, 36TH AND SPRUCE STREETS, PHILADELPHIA, PA. Lipid metabolism (monkeys).

R01HL-05351-18 (HEM) MOHN, JAMES F, S U N Y - AT BUFFALO, 233 SHERMAN HALL, IMMUNOL CTR , BUFFALO, N Y. Blood group antigens and antibodies (human, rabbits, sheep).

R01HL-05360-19 (MET) COOPER, ALLEN D, STANFORD UNIVERSITY, MEDICINE DEPARTMENT, STANFORD, CALIF. Cholesterol biosynthesis and its control in liver (rats).

R01HL-05556-19 (88CA) GURD, FRANK R, INDIANA UNIVERSITY, DEPARTMENT OF CHEMISTRY, BLOOMINGTON, IND. Proteins, lipoproteins--Structure and reactivity (chicken, human, diving mammals).

R01HL-05694-20 (PTHA) EDWARDS, JESSE E, UNITED HOSPS-MILLER DIVISION, 125 W COLLEGE AVENUE, ST PAUL, MINN. Functional pathology of cardiovascular disease (human).

R01HL-05791-18 (HEM) BENESCH, RUTH E, COLUMBIA UNIVERSITY, 630 WEST 168TH STREET, NEW YORK, N Y. Structure and function in hemoglobins (human).

R01HL-05806-18 (CV8) LUCCHESI, BENEDICT R, UNIVERSITY OF MICHIGAN, PHARMACOLOGY DEPARTMENT, ANN ARBOR, MICH. Analysis of antiarrhythmic agents (dogs, rabbits).

R01HL-05875-18 (CV8) HACKEL, DONALD B, DUKE UNIVERSITY, MEDICAL CENTER, DURHAM, N C. Pathologic metabolic and physiologic studies of heart (human, dogs, cats).

R01HL-05883-18 (AFY) SHEPHERD, JOHN T, MAYO FOUNDATION, 200 FIRST STREET, S W, ROCHESTER, MINN. Reflex control of resistance and capacitance vessels.

R01HL-05883-18 0001 (AFY) SHEPHERD, JOHN T. Reflex control of resistance and capacitance vessels--Naturally occurring vasoactive substances and the vascular neuroeffectors (dog).

R01HL-05883-18 0002 (AFY) SHEPHERD, JOHN T. Reflex control of resistance and capacitance vessels--Adenosine, adenine nucleotides and vascular smooth muscle (dog).

R01HL-05883-18 0003 (AFY) SHEPHERD, JOHN T. Reflex control of resistance and capacitance vessels--Cardiac glycosides and sympathetic nerve terminals in vascular smooth muscle.

R01HL-05883-18 0004 (AFY) SHEPHERD, JOHN T. Reflex control of resistance and capacitance vessels--Left ventricular receptors with nonmedullated vagal afferents (cats).

R01HL-05883-18 0005 (AFY) SHEPHERD, JOHN T. Reflex control of resistance and capacitance vessels--Differential blockade of medullated and nonmedullated vagal afferents in the cat.

R01HL-05883-18 0006 (AFY) SHEPHERD, JOHN T. Reflex control of resistance and capacitance vessels--Cardiopulmonary vagal afferents in the conscious dog.

R01HL-05883-18 0007 (AFY) SHEPHERD, JOHN T. Reflex control of resistance and capacitance vessels--Prostaglandins and skeletal muscle blood flow (dogs).

R01HL-05883-18 0008 (AFY) SHEPHERD, JOHN T. Reflex control of resistance and capacitance vessels--Oxygen consumption of the chronically denervated dog heart.

R01HL-05949-18 (B8C8) GERGELY, JOHN, BOSTON BIOMEDICAL RES INST, 20 STANIFORD STREET, BOSTON, MASS 02114. Biochemistry of muscle contraction (rats, rabbits).

R01HL-06143-18 (AFY) DONALD, DAVID E, MAYO FOUNDATION, 200 FIRST STREET SOUTHWEST, ROCHESTER, MINN. Response of the totally denervated heart to exercise (dogs).

R01HL-06221-17 (MET) ALAUPOVIC, PETAR, OKLAHOMA MED RESEARCH FDN, 825 N E 13TH STREET, OKLAHOMA CITY, OKLA Composition and structure of plasma lipoproteins (human, turkeys, baboons)

R01HL-06222-18 (MET) AHRENS, EDWARD H, JR. ROCKEFELLER UNIVERSITY 66TH STREET & YORK AVENUE, NEW YORK, N Y Clinical and laboratory studies in lipid metabolism (human, mammals, non-human)

R01HL-06242-18 (HEM) FINCH, CLEMENT A, UNIVERSITY OF WASHINGTON, DIVISION OF HEMATOLOGY, SEATTLE, WASH Kinetic studies of blood (human)

P01HL-06285-18 (HEP) HAVEL, RICHARD J, UNIVERSITY OF CALIFORNIA, 3RD AND PARNASSUS, SAN FRANCISCO, CALIF Cardiovascular-respiratory physiology and biochemistry

P01HL-06285-18 0125 (HEP) RUDOLPH, ABRAHAM M. Cardiovascular-respiratory physiology and biochemistry-Myocardial function in the fetal and neonatal lamb.

P01HL-06285-18 0126 (HEP) RUDOLPH, ABRAHAM M. Cardiovascular-respiratory physiology and biochemistry--Ventricular output, foramen ovale and ductus arteriosus flows (lambs).

P01HL-06285-18 0127 (HEP) HEYMANN, MICHAEL A. Cardiovascular-respiratory physiology and biochemistry--Experimental congenital cardiac lesions in fetal lambs.

P01HL-06285-18 0128 (HEP) RUDOLPH, ABRAHAM M. Cardiovascular-respiratory physiology and biochemistry--Pulmonary circulation in fetal lambs in utero.

P01HL-06285-18 0129 (HEP) HEYMANN, MICHAEL A. Cardiovascular-respiratory physiology and biochemistry--Pulmonary microcirculation in the fetus and neonate (lambs).

P01HL-06285-18 0130 (HEP) HEYMANN, MICHAEL A. Cardiovascular-respiratory physiology and biochemistry--Ductus arteriosus--Morphological development (human, lambs).

P01HL-06285-18 0131 (HEP) RUDOLPH, ABRAHAM M. Cardiovascular-respiratory physiology and biochemistry--Fetal heart development and ventricular outflow obstruction (lambs).

P01HL-06285-18 0132 (HEP) RUDOLPH, ABRAHAM M. Cardiovascular-respiratory physiology and biochemistry--Umbilical-placental circulatory responses (lambs).

P01HL-06285-18 0133 (HEP) CREASY, ROBERT K. Cardiovascular-respiratory physiology and biochemistry--Decreased uterine blood flow and fetal development (lambs).

P01HL-06285-18 0134 (HEP) CREASY, ROBERT K. Cardiovascular-respiratory physiology and biochemistry--Placental transfer in growth retarded fetuses (lambs).

P01HL-06285-18 0135 (HEP) CREASY, ROBERT K. Cardiovascular-respiratory physiology and biochemistry--Beta-adrenergic agents and fetal cardiovascular dynamics (lambs).

P01HL-06285-18 0136 (HEP) PHIBBS, RODERIC. Cardiovascular-respiratory physiology and biochemistry--Fetal microcirculation in utero (rabbits, lambs).

P01HL-06285-18 0143 (HEP) HOFFMAN, JULIEN I. Cardiovascular-respiratory physiology and biochemistry--Myocardial ischemia (human, dogs, lambs).

P01HL-06285-18 0145 (HEP) STAUB, NORMAN C. Cardiovascular-respiratory physiology and biochemistry--Pulmonary, pleural and systemic microcirculation (animals).

P01HL-06285-18 0146 (HEP) SEVERINGHAUS, JOHN W. Cardiovascular-respiratory physiology and biochemistry--Pathogenesis and detection of hypoxic pulmonary edema (human, animals).

P01HL-06285-18 0147 (HEP) SEVERINGHAUS, JOHN W. Cardiovascular-respiratory physiology and biochemistry--Metabolic regulation of cerebral microcirculation (cats).

P01HL-06285-18 0149 (HEP) SIPERSTEIN, MARVIN D. Cardiovascular-respiratory physiology and biochemistry--Microangiopathy in prediabetic and diabetic subjects (human).

P01HL-06285-18 0150 (HEP) SIPERSTEIN, MARVIN D. Cardiovascular-respiratory physiology and biochemistry--Basement membrane width in non-diabetic hyperglycemia.

P01HL-06285-18 0151 (HEP) SIPERSTEIN, MARVIN D. Cardiovascular-respiratory physiology and biochemistry--Microangiopathy in diabetic and glucose intolerant children.

P01HL-06285-18 0152 (HEP) SIPERSTEIN, MARVIN D. Cardiovascular-respiratory physiology and biochemistry--Diabetic microangiopathy by organ and tissue culture (human).

P01HL-06285-18 0153 (HEP) PARMLEY, WILLIAM W. Cardiovascular-respiratory physiology and biochemistry--Myocardial mechanics and pharmacology in isolated papillary muscle (animals).

P01HL-06285-18 0154 (HEP) PARMLEY, WILLIAM W. Cardiovascular-respiratory physiology and biochemistry--Function and viability of critically ischemic myocardium (dogs).

P01HL-06285-18 0155 (HEP) PARMLEY, WILLIAM W. Cardiovascular-respiratory physiology and biochemistry--Therapeutic alterations, contractile state in heart failure.

P01HL-06285-18 0156 (HEP) PARMLEY, WILLIAM W. Cardiovascular-respiratory physiology and biochemistry--Myocardial performance following revascularization (human).

P01HL-06285-18 0157 (HEP) PARMLEY, WILLIAM W. Cardiovascular-respiratory physiology and biochemistry--Left ventricle outflow impedance analysis (human).

P01HL-06285-18 0158 (HEP) RAPAPORT, ELLIOT. Cardiovascular-respiratory physiology and biochemistry--Load on myocardial contractility (dogs).

P01HL-06285-18 0164 (HEP) RAPAPORT, ELLIOT. Cardiovascular-respiratory physiology and biochemistry--CPK MB isoenzyme concentration to quantify infarct size (human, animals).

P01HL-06285-18 0173 (HEP) BOTTS, JEAN. Cardiovascular-respiratory physiology and biochemistry--Skeletal and cardiac muscle function.

P01HL-06285-18 0178 (HEP) KUN, ERNEST. Cardiovascular-respiratory physiology and biochemistry--Biochemical regulation of hypertrophy (rats, rabbits).

P01HL-06285-18 0179 (HEP) HOLLENBERG, MILTON. Cardiovascular-respiratory physiology and biochemistry--Regulation of myocardial cell growth (rats, chick embryo).

P01HL-06285-18 0180 (HEP) COLERIDGE, JOHN C G. Cardiovascular-respiratory physiology and biochemistry--Vagal C-fibers and their influence on visceral and somatic function (animals).

P01HL-06285-18 0181 (HEP) NADEL, JAY A Cardiovascular respiratory physiology and biochemistry Regulation of respiration Role of vagus nerve (dogs)

P01HL-06285-18 0182 (HEP) MITCHELL, ROBERT A Cardiovascular respiratory physiology and biochemistry Structure and function of vascular chemoreceptors (cats, rats)

P01HL-06285-18 0186 (HEP) MELMON, KENNETH L Cardiovascular respiratory physiology and biochemistry Leukocyte hormone receptors and cyclic nucleotides (tissue culture)

P01HL-06285-18 0188 (HEP) NADEL, JAY A. Cardiovascular respiratory physiology and biochemistry Physiology and pharmacology in regulation of airways hyperirritability (animals)

P01HL-06285-18 0189 (HEP) NADEL, JAY A. Cardiovascular respiratory physiology and biochemistry Mucociliary clearance (cats, dogs)

P01HL-06285-18 0190 (HEP) NADEL, JAY A. Cardiovascular-respiratory physiology and biochemistry Maximal (airway) flow (human, dogs)

P01HL-06285-18 0193 (HEP) EDELMAN, ISIDORE S. Cardiovascular-respiratory physiology and biochemistry Hormonal regulation of sodium transport Aldosterone (rats, toads)

P01HL-06285-18 0194 (HEP) EDELMAN, ISIDORE S. Cardiovascular-respiratory physiology and biochemistry--Hormonal regulation of sodium transport--RNA synthesis (rats, toads).

P01HL-06285-18 0195 (HEP) EDELMAN, ISIDORE S. Cardiovascular-respiratory physiology and biochemistry Thyroid thermogenesis and sodium transport (rats).

P01HL-06285-18 0196 (HEP) EDELMAN, ISIDORE S. Cardiovascular-respiratory physiology and biochemistry--Hormonal regulation of sodium transport--Epithelial cell membranes (toads).

P01HL-06285-18 0197 (HEP) RECTOR, FLOYD C. Cardiovascular-respiratory physiology and biochemistry--Microperfusion and micropuncture of renal tubules (hamsters, desert rats).

P01HL-06285-18 0198 (HEP) RECTOR, FLOYD C. Cardiovascular-respiratory physiology and biochemistry--Renal tubular secretion of hydrogen ion (animals).

P01HL-06285-18 0199 (HEP) RECTOR, FLOYD C. Cardiovascular-respiratory physiology and biochemistry--Renal tubular reabsorption of sodium chloride (hamsters, rabbits).

P01HL-06285-18 0200 (HEP) RECTOR, FLOYD C. Cardiovascular-respiratory physiology and biochemistry--Medullary counter-current system (animals).

P01HL-06285-18 0203 (HEP) HAVEL, RICHARD J. Cardiovascular-respiratory physiology and biochemistry--Pathways of lipid transport in the blood (animals).

P01HL-06285-18 0204 (HEP) FELTS, JAMES M. Cardiovascular-respiratory physiology and biochemistry--Lipoprotein lipase and triglyceride transport in chylomicrons (guinea pig, rat).

P01HL-06285-18 0205 (HEP) MAYERLE, JOAN A. Cardiovascular-respiratory physiology and biochemistry--Assimilation of cholesterol in chylomicrons and VLDL (rabbits).

P01HL-06285-18 0207 (HEP) SIPERSTEIN, MARVIN D. Cardiovascular-respiratory physiology and biochemistry--Feedback control of cholesterol synthesis in non-hepatic tissues (animals).

P01HL-06285-18 0208 (HEP) CLEMENTS, JOHN A. Cardiovascular-respiratory physiology and biochemistry--Composition, properties and turnover of pulmonary surfactant (human, animals).

P01HL-06285-18 0209 (HEP) MASON, ROBERT J. Cardiovascular-respiratory physiology and biochemistry--Metabolic studies of isolated lung cells (human, animals).

P01HL-06285-18 0210 (HEP) GOERKE, R JON, III. Cardiovascular-respiratory physiology and biochemistry--Physicochemical and enzymatic studies of lung surfactant (Halobacterium).

P01HL-06285-18 0211 (HEP) STOECKENIUS, WALTHER. Cardiovascular-respiratory physiology and biochemistry--Purple membrane of Halobacteria.

P01HL-06285-18 0212 (HEP) STOECKENIUS, WALTHER. Cardiovascular-respiratory physiology and biochemistry--Membrane structure and function--Gap junction (bovine).

P01HL-06285-18 0213 (HEP) STOECKENIUS, WALTHER. Cardiovascular-respiratory physiology and biochemistry--Membrane structure and function--Gas vacuole membrane (Halobacterium).

P01HL-06285-18 0214 (HEP) STOECKENIUS, WALTHER. Cardiovascular-respiratory physiology and biochemistry--Membrane structure and function-EM of macromolecules.

P01HL-06285-18 0215 (HEP) YANG, JEN TSI. Cardiovascular-respiratory physiology and biochemistry--Conformation of biopolymers.

P01HL-06296-18 (HEPA) MITCHELL, JERE H, UNIVERSITY OF TEXAS, 5323 HARRY HINES BLVD, DALLAS, TEX. Cardiovascular and pulmonary adaptation to stress.

P01HL-06296-18 0002 (HEPA) JOHNSON, ROBERT L. Cardiovascular and pulmonary adaptation to stress--Respiratory muscle blood flow, mechanics and metabolism (human, dog).

P01HL-06296-18 0003 (HEPA) BLOMQVIST, GUNNAR. Cardiovascular and pulmonary adaptation to stress--Human exercise studies (human, dogs).

P01HL-06296-18 0005 (HEPA) WILDENTHAL, KERN. Cardiovascular and pulmonary adaptation to stress--Regulation of ventricular performance (animals).

P01HL-06296-18 0007 (HEPA) MITCHELL, JERE H. Cardiovascular and pulmonary adaptation to stress--Cardiovascular control during isometric exercise (cats).

P01HL-06308-18 (HEPA) FISCH, CHARLES, INDIANA UNIVERSITY, 1100 WEST MICHIGAN STREET, INDIANAPOLIS, IND. Mechanisms and therapy of circulatory disease.

P01HL-06308-18 0010 (HEPA) MCHENRY, PAUL L. Mechanisms and therapy of circulatory disease--Ventricular arrhythmias during exercise to CHD and myocardial ischemia (human).

P01HL-06308-18 0011 (HEPA) KNOEBEL, SUZANNE B. Mechanisms and therapy of circulatory disease--Blood flow and electrical dysfunction in ventricular arrhythmia (human).

P01HL-06308-18 0012 (HEPA) FEIGENBAUM, HARVEY. Mechanisms and therapy of circulatory disease--Echocardiographic evaluation of hemodynamics of arrhythmia (human).

P01HL-06308-18 0025 (HEPA) BESCH, HENRY R, JR. Mechanisms and therapy of circulatory disease--Subcellular calcium pools in the genesis of arrhythmias (dogs).

P01HL-0630B-1B 0029 (HEPA) ZIPES, DOUGLAS P. Mechanisms and therapy of circulatory disease--Characterization of the patient with recurrent ventricular arrhythmias.

P01HL-0630B-1B 003S (HEPA) BAILEY, JOHN C. Mechanisms and therapy of circulatory disease--Mechanisms for electrophysiological changes in myocardial infarction (dogs).

P01HL-0630B-1B 0037 (HEPA) ZIPES, DOUGLAS P. Mechanisms and therapy of circulatory disease--Electrophysiology, blood flow, and ANS in ventricular fibrillation (dogs).

P01HL-0630B-1B 003B (HEPA) ZIPES, DOUGLAS P. Mechanisms and therapy of circulatory disease--Electrophysiology of ventricualr arrhythmias associated with ischemia (dogs).

P01HL-0630B-1B 0039 (HEPA) WATANABE, AUGUST M. Mechanisms and therapy of circulatory disease--ANS in regulation of electrophysiology--Role of cyclic nulceotides (animals).

P01HL-0630B-1B 0040 (HEPA) WILLIAMS, ERIC S. Mechanisms and therapy of circulatory disease--Metabolism and fatty acid utilization--Heart electrical stability (rats, dogs).

P01HL-0630B-1B 0042 (HEPA) CORYA, BETTY C. Mechanisms and therapy of circulatory disease--Echocardiographic assessment of arrhythmias--Myocardial tissue type (human, dogs).

P01HL-0630B-1B 0043 (HEPA) DILLON, JAMES C. Mechanisms and therapy of circulatory disease--Exercise and echocardiographic examining techniques (human).

P01HL-0630B-1B 0044 (HEPA) WEYMAN, ARTHUR E. Mechanisms and therapy of circulatory disease--Echocardiography to determine site of ectopic impulse formation (human, dogs).

P01HL-06312-17 (HEP) WILLMAN, VALLEE L, ST LOUIS UNIVERSITY, 1325 SOUTH GRAND BLVD, ST LOUIS, MO. Surgical cardiology.

P01HL-06312-17 0013 (HEP) KAISER, GEORGE C. Surgical cardiology--Aortocoronary vein bypass grafting (human).

P01HL-06312-17 001S (HEP) BARNER, HENDRICK B. Surgical cardiology--Internal mammary artery versus saphenous vein for coronary artery bypass (human).

P01HL-06312-17 0016 (HEP) BARNER, HENDRICK B. Surgical cardiology--Effect of hydralazine on infarct size following coronary occlusion (human).

P01HL-06312-17 0017 (HEP) WILLMAN, VALLEE L. Surgical cardiology--Cardiac transplantation (human).

P01HL-06312-17 001B (HEP) WILLMAN, VALLEE L. Surgical cardiology--Cardiac transplantation growth (calves).

P01HL-06312-17 0021 (HEP) WILLMAN, VALLEE L. Surgical cardiology--Cardiac transplantation--Effect of immunosuppression on atherogenesis (monkeys).

P01HL-06312-17 0022 (HEP) WILLMAN, VALLEE L. Surgical cardiology--Cardiac transplant--Experimental simultaneous heart and kidney transplant (dogs).

P01HL-06312-17 0023 (HEP) WILLMAN, VALLEE L. Surgical cardiology--Effect of denervation on atherosclerosis.

P01HL-06312-17 002S (HEP) WILLMAN, VALLEE L. Surgical cardiology--Effect of denervation on arrhythmias and function with coronary occlusion (dogs).

P01HL-06312-17 002B (HEP) WILLMAN, VALLEE L. Surgical cardiology--Coronary flow in the transplanted denervated heart (dogs).

P01HL-06312-17 0029 (HEP) WILLMAN, VALLEE L. Surgical cardiology--Cardiac lymphatics in the transplanted heart (dogs).

P01HL-06312-17 0030 (HEP) PIETRAFITTA, J. Surgical cardiology--Total artificial heart (calves).

P01HL-06312-17 0032 (HEP) JELLINEK, MAX. Surgical cardiology--Preservation of the heart by perfusion (dogs).

P01HL-06312-17 0033 (HEP) MENZ, LEO. Surgical cardiology--Studies in cryopreservations (rats).

P01HL-06312-17 0034 (HEP) JELLINEK, MAX. Surgical cardiology--Metabolic factors in cardiac function--Creatine phosphate depletion (animals).

P01HL-06312-17 0036 (HEP) WILLMAN, VALLEE L. Surgical cardiology--Experimental studies of cardiac compliance (dogs).

P01HL-06312-17 0039 (HEP) WILLMAN, VALLEE L. Surgical cardiology--Cardiac transplantation--Biopsy correlates of rejection.

P01HL-06312-17 0040 (HEP) PENNINGTON, G. Surgical cardiology--Left ventricle assist (dogs).

P01HL-06312-17 0041 (HEP) PENNINGTON, G. Surgical cardiology--A servomechanism for left ventricular assist (human, dogs, sheep).

P01HL-06312-17 0042 (HEP) PENNINGTON, G. Surgical cardiology--Right ventricular assist device (sheep).

P01HL-06312-17 0043 (HEP) PENNINGTON, G. Surgical cardiology--The cylindrical ventricular assist device (dogs).

P01HL-06312-17 0044 (HEP) BARNER, HENDRICK B. Surgical cardiology--The limits of topical cardiac hypothermia with ice chips (rats).

P01HL-06312-17 0046 (HEP) JELLINEK, MAX. Surgical cardiology--The relationship of prostaglandins to heart disease.

P01HL-06312-17 0047 (HEP) PENNINGTON, G. Surgical cardiology--Myocardial extravascular water (dogs).

P01HL-06312-17 004B (HEP) LAKS, HILLEL. Surgical cardiology--Use of an adjustable pulmonary artery band (dogs).

P01HL-06312-17 0049 (HEP) PENNINGTON, G. Surgical cardiology--Long-term pulmonary vascular resistance (human).

P01HL-06312-17 0050 (HEP) PENNINGTON, G. Surgical cardiology--Prevention of pericardial and pleural adhesions by silicone oil (dogs).

P01HL-06312-17 0051 (HEP) BARNER, HENDRICK B. Surgical cardiology--Diuretic therapy on myocardial electrolyte composition and water content (human).

P01HL-06312-17 00S2 (HEP) BARNER, HENDRICK B. Surgical cardiology--Assay of metabolic variables of rat heart.

P01HL-06312-17 0053 (HEP) KAISER, GEORGE C. Surgical cardiology--Enzyme pattern following cardiac surgery (human).

P01HL-06314-17 (HEP) VERNIER, ROBERT L, UNIVERSITY OF MINNESOTA, BOX 491 MAYO HOSPITAL, MINNEAPOLIS, MINN. Immunologic mechanisms in cardiovascular disease.

P01HL-06314-17 0046 (HEP) GRAY, BEULAH H. Immunologic mechanisms in cardiovascular disease--Mediators of immune injury (human, mice).

P01HL-06314-17 0047 (HEP) WHITE, JAMES G. Immunologic mechanisms in cardiovascular disease--Role of intravascular coagulation (human, animals).

P01HL-06314-17 004B (HEP) VERNIER, ROBERT L. Immunologic mechanisms in cardiovascular disease--Pathogenesis of glomerulonephritis (rats, mice).

P01HL-06314-17 0050 (HEP) ROSENBERG, ANDREAS. Immunologic mechanisms in cardiovascular disease--Physiologic changes in lymphocytes (human, mice).

P01HL-06314-17 0051 (HEP) WOODWARD, CLARE K. Immunologic mechanisms in cardiovascular disease--Conformational studies of phospholipid membranes and proteins.

P01HL-06314-17 00S2 (HEP) ESTENSEN, RICHARD D. Immunologic mechanisms in cardiovascular disease--Role of cyclic nucleotides in neutrophil function (human).

P01HL-06314-17 00S3 (HEP) GOLDBERG, NELSON. Immunologic mechanisms in cardiovascular disease--Cellular functions controlled by cyclic GMP (human, mice, guinea pigs).

P01HL-06314-17 0054 (HEP) SHERIDAN, JUDSON D. Immunologic mechanisms in cardiovascular disease--Physiology of cell communications (mice, frogs, guinea pigs).

P01HL-06314-17 0055 (HEP) SHEPPARD, JOHN. Immunologic mechanisms in cardiovascular disease--Genetics and cell biology.

P01HL-06314-17 00S7 (HEP) GRAY, ERNE5T D. Immunologic mechanisms in cardiovascular disease--Antigens in cardiovascular disease (human).

P01HL-06314-17 0059 (HEP) GREENBERG, LEONARD J. Immunologic mechanisms in cardiovascular disease--Immunogenetic response to streptococcal antigens in man.

P01HL-06314-17 0060 (HEP) FERRIERI, PATRICIA. Immunologic mechanisms in cardiovascular disease--Strept antigens and infections in cardiovascular complications (human, animals).

P01HL-06314-17 0061 (HEP) BALFOUR, H H, JR. Immunologic mechanisms in cardiovascular disease--Role of viruses in cardiovascular and renal disease (human, mice).

P01HL-06314-17 0062 (HEP) MICHAEL, ALFRED F. Immunologic mechanisms in cardiovascular disease--Immunologic renal vascular disease (human, animals).

P01HL-06314-17 0063 (HEP) FISH, ALFRED J. Immunologic mechanisms in cardiovascular disease--Glomerular cells in tissue culture (human).

P01HL-06314-17 0064 (HEP) BROWN, DAVID M. Immunologic mechanisms in cardiovascular disease--Diabetic vascular disease (human, rats, mice).

P01HL-06314-17 006S (HEP) AMPLATZ, KURT. Immunologic mechanisms in cardiovascular disease--Transplantation biology and clinical transplantation.

P01HL-06314-17 0066 (HEP) DOUGLAS, STEVEN D. Immunologic mechanisms in cardiovascular disease--Sensitization, cell-mediated cytotoxicity, role of lymphocytes (human, mice).

P01HL-06314-17 0067 (HEP) SCHMIDTKE, JON R. Immunologic mechanisms in cardiovascular disease--Mitogenic and antigenic activation of lymphocyte sub-populations.

P01HL-063S0-17 (HEP) GRAHAM, JOHN B, UNIVERSITY OF NORTH CAROLINA, SCHOOL OF MEDICINE, CHAPEL HILL, N C. Hemostasis research program project.

P01HL-06350-17 0005 (HEP) WAGNER, ROBERT H. Hemostasis research program project--Purification of plasma antihemophilic factor (human).

P01HL-063S0-17 0015 (HEP) GRAHAM, JOHN B. Hemostasis research program project--Genetics (human).

P01HL-06350-17 001B (HEP) ROBERTS, HAROLD R. Hemostasis research program project--Varients of factors IX (human, cattle).

P01HL-063S0-17 0019 (HEP) DALLDORF, FREDERIC G. Hemostasis research program project--Microcirculation (human, rats, rabbits).

P01HL-06350-17 0020 (HEP) MCDONAGH, RICHARD P. Hemostasis research program project--Structure and function of coagulant venom proteases.

P01HL-06370-17 (HEP) COTRAN, RAMZI S, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Cardiopulmonary and renal pathology research center.

P01HL-06370-17 0001 (HEP) BUSCH, GEORGE J. Cardiopulmonary and renal pathology research center--The humoral and cellular mechanisms of allograft rejection (monkeys).

P01HL-06370-17 0004 (HEP) POLET, HERMAN. Cardiopulmonary and renal pathology research center--Lymphocytes in graft rejection and immune surveillance (human).

P01HL-06370-17 0006 (HEP) REYNOLD5, EDWARD S. Cardiopulmonary and renal pathology research center--Chemical basis of ultrastructural changes in disease (rats).

P01HL-06370-17 0013 (HEP) DAMMIN, GUSTAVE J. Cardiopulmonary and renal pathology research center--Morphologic analysis of vascular prosthesis (human, dogs).

P01HL-06370-17 0014 (HEP) FISHBEIN, MICHAEL C. Cardiopulmonary and renal pathology research center--Quantitative morphology in cardiac disease (human, rats, dogs).

P01HL-06370-17 0015 (HEP) SZABO, SANDOR. Cardiopulmonary and renal pathology research center--Pathogenesis of chemically induced tissue injury (rats).

P01HL-06370-17 0016 (HEP) EHRIE, MICHAEL. Cardiopulmonary and renal pathology research center--Endocarditis with pulmonary artery catheters (dogs).

P01HL-06370-17 0017 (HEP) EHRIE, MICHAEL. Cardiopulmonary and renal pathology research center--Detection of pulmonary lesions--Radiologic pathologic correlation.

P01HL-06370-17 001B (HEP) PINKU5, GERALDINE. Cardiopulmonary and renal pathology research center--Cytochemistry and immunology of lymphoproliferative disorders (human).

R01HL-064B1-15 (GMA) KAYDEN, HERBERT J, NEW YORK UNIVERSITY, 550 FIRST AVENUE, NEW YORK, N Y. Lipid metabolism (human, rats).

P01HL-06664-17 (HEPA) LEAF, ALEXANDER, MASSACHUSETTS GENERAL HOSPITAL, FRUIT STREET, BOSTON, MASS. Cardiopulmonary function in remediable vascular disease.

P01HL-06664-17 0010 (HEPA) FREGA, NORBETO. Cardiopulmonary function in remediable vascular disease--Ischemia and acute renal failure (rats).

P01HL-06664-17 0034 (HEPA) POWELL, WM JOHN. Cardiopulmonary function in remediable vascular disease--Role of hyperosmolar agents in ischemic heart disease (dogs).

P01HL-06664-17 0036 (HEPA) AME5, A DELBERT. Cardiopulmonary function in remediable vascular disease--In vitro studies on the mechanism of ischemic damage to cells (rabbits).

P01HL-06664-17 0037 (HEPA) DIBONA, DONALD R. Cardiopulmonary function in remediable vascular disease--Salt and water balance of cells and tissues (rabbits).

P01HL-06664-17 0038 (HEPA) DIBONA, DONALD R. Cardiopulmonary function in remediable vascular disease-The dynamics of AOII-stimulated osmotic water flow

P01HL-06664-17 0039 (HEPA) DIBONA, DONALD R. Cardiopulmonary function in remediable vascular disease--Transepithelial active transport and cell volume regulation (frogs).

P01HL-06664-17 0040 (HEPA) CANESSA, MITZY. Cardiopulmonary function in remediable vascular disease--The coupling of ion transport to metabolism (toads).

P01HL-06664-17 0041 (HEPA) DIBONA, DONALD R. Cardiopulmonary function in remediable vascular disease--Core facility for quantitative microscopy

P01HL-06664-17 0042 (HEPA) LEAF, ALEXANDER. Cardiopulmonary function in remediable vascular disease--Physiologic studies on vein grafts (dogs).

P01HL-06664-17 0043 (HEPA) LEAF, ALEXANDER. Cardiopulmonary function in remediable vascular disease--Alveolar hypoxic vasoconstriction--Control and clinical significance (dog, human).

R01HL-06736-18 (CV8) BAEZ, SILVIO, ALBERT EINSTEIN COLL OF MED, 1300 MORRIS PARK AVENUE, BRONX, N Y Biogenic-mechanical factors in microcirculation (rats, gerbils).

P01HL-06835-17 (HEP) BUMPUS, F MERLIN, CLEVELAND CLINIC FOUNDATION, 9500 EUCLID AVENUE, CLEVELAND, OHIO. Cardiovascular disease.

P01HL-06B35-17 0014 (HEP) BUTKUS, ANTANAS. Cardiovascular disease--Dietary induction of severe atherosclerosis and its prevention (dogs).

P01HL-06835-17 0015 (HEP) BUTKUS, ANTANAS. Cardiovascular disease--Plasma cholesterol esterification in canine atherosclerosis.

P01HL-06B35-17 0016 (HEP) BUTKUS, ANTANAS. Cardiovascular disease--Metabolic interactions to polyunsaturated fatty acids in atherogenic diet (dogs).

P01HL-06B35-17 0017 (HEP) BUTKUS, ANTANAS. Cardiovascular disease--Studies on obese hypertensive rats.

P01HL-06B35-17 001B (HEP) BUTKUS, ANTANAS. Cardiovascular disease--Fatty acid concentration (rats).

P01HL-06835-17 0019 (HEP) BUTKUS, ANTANAS. Cardiovascular disease--Fatty acid distribution (rats).

P01HL-06B35-17 0020 (HEP) BUTKUS, ANTANAS. Cardiovascular disease--Lipid metabolism (rats).

P01HL-06B35-17 0021 (HEP) BUTKUS, ANTANAS. Cardiovascular disease--Animal study in atherosclerosis (dog, guinea pig).

P01HL-06835-17 0022 (HEP) BUTKUS, ANTANAS. Cardiovascular disease--Arterial lipogenesis from glucose in the rat.

P01HL-06B35-17 0024 (HEP) BUTKUS, ANTANAS. Cardiovascular disease--Studies on the obese spontaneously hypertensive rat.

P01HL-06B35-17 0026 (HEP) BUTKUS, ANTANAS. Cardiovascular disease--Lipoproteins (human, guinea pig).

P01HL-06B35-17 0027 (HEP) SHAINOFF, JOHN R. Cardiovascular disease--Studies in thrombosis-cross-linking of fibrinogen (human).

P01HL-06B35-17 0028 (HEP) SHAINOFF, JOHN R. Cardiovascular disease--Studies in thrombosis-fibrinogen in fibrin transport (human).

P01HL-06B35-17 0030 (HEP) BUMPUS, F MERLIN. Cardiovascular disease--Synthesis and pharmacology of angiotensin antagonists (rats, cats).

P01HL-06835-17 0031 (HEP) BUMPUS, F MERLIN. Cardiovascular disease--Synthesis of potent antagonist of pressor action of angiotensin II (animals).

P01HL-06B35-17 0032 (HEP) BUMPUS, F MERLIN. Cardiovascular disease--Synthesis of angiotensin II as inhibitors for aldosterone.

P01HL-06835-17 0033 (HEP) BUMPUS, F MERLIN. Cardiovascular disease--Structure-activity relationship of angiotensin II analogs (rats).

P01HL-06B35-17 0034 (HEP) BUMPUS, F MERLIN. Cardiovascular disease--Studies of phospholipase A2 in serum (rats, dogs).

P01HL-06B35-17 0036 (HEP) BUMPUS, F MERLIN. Cardiovascular disease--Purification of dog renin.

P01HL-06835-17 0037 (HEP) BUMPUS, F MERLIN. Cardiovascular disease--Cardiac hypertrophy in spontaneously hypertensive rat.

P01HL-06B35-17 003B (HEP) BUMPUS, F MERLIN. Cardiovascular disease--Effect of chronic administration of angiotensin antagonist (rats).

P01HL-06B35-17 0039 (HEP) BUMPUS, F MERLIN. Cardiovascular disease--Reversibility of vascular changes in renal hypertension (rats).

P01HL-06835-17 0040 (HEP) FERRARIO, CARLOS M. Cardiovascular disease--Benign and malignant phase of renal hypertension (dogs).

P01HL-06835-17 0041 (HEP) BUMPUS, F MERLIN. Cardiovascular disease--Cardiac performance in rats with renal hypertension.

P01HL-06B35-17 0042 (HEP) BUMPUS, F MERLIN. Cardiovascular disease--Myocardial hypertrophy due to renal hypertension (rats).

P01HL-06B35-17 0043 (HEP) BUMPUS, F MERLIN. Cardiovascular disease--Left atrial receptor activity by the sympathetic nervous system (dogs).

P01HL-06835-17 0044 (HEP) BUMPUS, F MERLIN. Cardiovascular disease--Baroreceptors in control of blood pressure during sleep (dogs).

P01HL-06835-17 0045 (HEP) BRAVO, EMMANUEL L. Cardiovascular disease--Pressure-volume-renin relationship in human hypertension.

P01HL-06B35-17 0046 (HEP) BRAVO, EMMANUEL L. Cardiovascular disease--Renin activity during salt depletion in essential hypertension (human).

P01HL-06B35-17 0047 (HEP) BRAVO, EMMANUEL L. Cardiovascular disease--Spironolactone in primary aldosteroidism (human).

P01HL-06B35-17 004B (HEP) BRAVO, EMMANUEL L. Cardiovascular disease--Aldosterone producing adenoma prediction of curability (human).

P01HL-06B35-17 0049 (HEP) BRAVO, EMMANUEL L. Cardiovascular disease--Selective hypoaldosteronism (human).

P01HL-06B35-17 0050 (HEP) BRAVO, EMMANUEL L. Cardiovascular disease--18-Hydroxylase block in the 17 alpha-hydroxylase deficiency syndrome (human).

P01HL-06B35-17 0051 (HEP) BRAVO, EMMANUEL L. Cardiovascular disease--Cardiopulmonary volume in hypertension (human).

P01HL-06835-17 0052 (HEP) BRAVO, EMMANUEL L. Cardiovascular disease--Aortic distensibility (human).

P01HL-06835-17 0053 (HEP) BRAVO, EMMANUEL L. Cardiovascular disease--Vasodilating drugs (human).

P01HL-06B35-17 0055 (HEP) BRAVO, EMMANUEL L. Cardiovascular disease--Vascular and adrenocortical response to angiotensin II (dogs).

P01HL-06B35-17 0056 (HEP) BRAVO, EMMANUEL L. Cardiovascular disease--Angiotensin analogs--Sarcosine on arterial pressure, aldosterone (dogs).

P01HL-06B35-17 0057 (HEP) BRAVO, EMMANUEL L. Cardiovascular disease--Studies on cardiac hypertrophy.

P01HL-06835-17 0059 (HEP) BRAVO, EMMANUEL L. Cardiovascular disease Metyrapone induced hypertension in dog

P01HL-06B35-17 0060 (HEP) FERRARIO, CARLOS M. Cardiovascular disease Ventricular performance experimental models of arterial hypertension (rats, dogs).

P01HL-06835-17 0061 (HEP) STOWE, N T. Cardiovascular disease-Studies in renal physiology (human, rats, dogs)

P01HL-06835-17 0062 (HEP) EHRHART, L A. Cardiovascular disease Role of collagen in atherosclerosis (dogs, pigeons)

P01HL-06B35-17 0063 (HEP) BUTKUS, ANTANAS. Cardiovascular disease--Studies on prostaglandins (human, rabbits).

P01HL-06835-17 0064 (HEP) NAITO, H K. Cardiovascular disease-Studies in atherosclerosis (human, animals).

R01HL-06924-16 (MET) FANBURG, BARRY L, NEW ENGLAND MED CENTER HOSP, 171 HARRISON AVENUE, BOSTON, MASS. Humoral and metabolic aspects of cardiac function (mammals, non-human, human)

R01HL-06950-17 (HEM) BARTLETT, GRANT R, LAB/COMPATATIVE BIOCHEMISTRY, 4620 SANTA FE STREET, SAN DIEGO, CALIF. Red cell metabolism (human, vertebrates).

R01HL-06975-18 (CV8) BROWNIE, ALEXANDER C, S U N Y AT BUFFALO, 180 RACE STREET, BUFFALO, N Y. Pathogenesis and prevention of hypertension (rats).

R01HL-07047-16 (CVA) TRUEX, RAYMOND C, TEMPLE UNIVERSITY, 3400 NORTH BROAD STREET, PHILADELPHIA, PA. Comparative study of cardiac conduction system (human, birds, mammals).

R01HL-07139-17 (CV8) LEVINE, HERBERT J, NEW ENGLAND MED CTR HOSP, 171 HARRISON AVENUE, BOSTON, MASS. Cardiodynamics and metabolism of congestive failure (human, dogs).

P01HL-07293-17 (HEPA) BAKER, DONALD W, UNIVERSITY OF WASHINGTON, CENTER FOR BIOENGINEERING, SEATTLE, WASH. Non-invasive cardiovascular measurements.

P01HL-07293-17 0041 (HEPA) STEWART, DOUGLAS K. Non-invasive cardiovascular measurements--Ventricular volumes and dimensions (human).

P01HL-07293-17 0042 (HEPA) BRINKLEY, JAMES. Non-invasive cardiovascular measurements--Ventricular imaging software (human).

P01HL-07293-17 0043 (HEPA) BAKER, DONALD W. Non-invasive cardiovascular measurements--ECHO-Doppler instrumentation for cardiac measurements (human).

P01HL-07293-17 0044 (HEPA) BAKER, DONALD W. Non-invasive cardiovascular measurements--Cardiac duplex scanner.

P01HL-07293-17 0045 (HEPA) MORITZ, WILLIAM E. Non-invasive cardiovascular measurements--Cardiac scanner transducer position locating systems (human).

P01HL-07293-17 0046 (HEPA) VOSS, DANIEL J. Non-invasive cardiovascular measurements--Cardiac scanner signal processors.

P01HL-07293-17 0047 (HEPA) MORITZ, WILLIAM E. Non-invasive cardiovascular measurements--Cardiac scanner system software.

P01HL-07293-17 004B (HEPA) BAKER, DONALD W. Non-invasive cardiovascular measurements--Cardiac scanner recording and display systems component.

P01HL-07293-17 0049 (HEPA) FORSTER, FRED. Non-invasive cardiovascular measurements--Cardiac scanner engineering evaluation and error analysis.

P01HL-07293-17 0050 (HEPA) FORSTER, FRED. Non-invasive cardiovascular measurements--Cardiac dimensions measurements engineering evaluation and error analysis.

P01HL-07293-17 0051 (HEPA) JOHNSON, STEVE L. Non-invasive cardiovascular measurements--Physiologic evaluation of duplex scanner (dogs).

P01HL-07293-17 0052 (HEPA) JOHNSON, STEVE L. Non-invasive cardiovascular measurements--Clinical evaluation of the duplex scanner (human).

P01HL-07293-17 0053 (HEPA) STEWART, DOUGLAS K. Non-invasive cardiovascular measurements--Clinical evaluation of cardiac dimensions using the duplex scanner (human).

P01HL-07293-17 0054 (HEPA) STRANDNESS, D EUGENE. Non-invasive cardiovascular measurements--Detection of arterial occlusive disease (human).

P01HL-07293-17 0055 (HEPA) MORITZ, WILLIAM E. Non-invasive cardiovascular measurements--Peripheral vascular transducer position locating system.

P01HL-07293-17 0056 (HEPA) MORITZ, WILLIAM E. Non-invasive cardiovascular measurements--Peripheral vascular system software.

P01HL-07293-17 0057 (HEPA) FORSTER, FRED. Non-invasive cardiovascular measurements--Peripheral vascular scanner engineering evaluation and error analysis (human).

P01HL-07293-17 005B (HEPA) STRANDNESS, D EUGENE. Non-invasive cardiovascular measurements--Peripheral duplex scanner physiologic evaluation.

P01HL-07293-17 0059 (HEPA) JOHNSON, STEVE L. Non-invasive cardiovascular measurements--Intracardiac blood flow measurement (human).

R01HL-07379-13 (HEM) BLOMBACK, BIRGER E, KAROLINSKA INSTITUTET, BLOOD COAGULATION RES DEPT, S-10401 STOCKHOLM, SWEDEN. Structure and function of fibrinogen (human).

R01HL-07449-17 (HEM) BEUTLER, ERNEST, CITY OF HOPE NATL MEDICAL CTR, 1500 EAST DUARTE ROAD, DUARTE, CALIF. Formation and survival of red blood cells (human).

R01HL-07451-16 (88C8) BRIEHL, ROBIN W, ALBERT EINSTEIN COLLEGE OF MED, 1300 MORRIS PARK AVENUE, BRONX, N Y. Hemoglobin S gelation and hemoglobin allostery (human).

RC1HL-07502-13 (MCH8) BEAL, JACK L, OHIO STATE UNIVERSITY, 500 W 12TH AVENUE, COLUMBUS, OHIO. Phytochemistry of the genus thalictrum (dogs, plants).

R01HL-07575-15 (COM) SCHMITT, OTTO H, UNIVERSITY OF MINNESOTA, BIOPHYSICS GROUP - 200 TNCE, MINNEAPOLIS, MINN. Analysis of time-coherent cardiovascular data.

R01HL-07605-16 (CVA) LEV, MAURICE, HEKTOEN INST FOR MEDICAL RES, 637 S WOOD STREET, CHICAGO, ILL. Congenital heart disease research program (human, dogs).

R01HL-07652-14 (HEM) JANDL, JAMES H, HARVARD MEDICAL SCHOOL, 25 SHATTUCK STREET, BOSTON, MASS. Destruction of red blood cells in hemolytic anemias (human, guinea pigs).

R01HL-07723-15 (PHY) ROTHE, CARL F, INDIANA UNIVERSITY, 1100 WEST MICHIGAN STREET, INDIANAPOLIS, IND. Reflex control of vascular capacitance in shock.

R01HL-07776-15 (CVA) LOWN, BERNARD, HARVARD SCH OF PUBLIC HLTH, 665 HUNTINGTON AVENUE, BOSTON, MASS. Sudden death and cardiac arrhythmias (human, dogs, cats).

R01HL-07835-17 (PTHA) HEPTINSTALL, ROBERT H, JOHNS HOPKINS HOSPITAL, 601 NORTH BROADWAY, BALTIMORE, MD. Experimental hypertension and renal circulation (rats, rabbits).

R01HL-07878-16 (MET) ELLIOTT, WILLIAM H, ST LOUIS UNIVERSITY, 1402 SOUTH GRAND BLVD, ST LOUIS, MO. Metabolism of neutral sterols (rats, rabbits).

P01HL-07896-15 (HEP) BENNETT, PETER B, DUKE UNIVERSITY, BOX 3823, DURHAM, N C. Environmental biomedical research program.

P01HL-07896-15 0008 (HEP) FARMER, JOSEPH C, JR. Environmental biomedical research program--Otologic studies under hyperbaric conditions (human, animals).

P01HL-07896-15 0009 (HEP) VANN, R D. Environmental biomedical research program--Decompression sickness and computation of safe diving tables (human, animals).

P01HL-07896-15 0014 (HEP) SALZANO, JOHN V. Environmental biomedical research program--Mechanisms of respiration and circulation (human, dogs).

P01HL-07896-15 0019 (HEP) ANDERSON, BANKS, JR. Environmental biomedical research program--Hyperoxic myopia (human).

P01HL-07896-15 0021 (HEP) KYLSTRA, JOHANNES A. Environmental biomedical research program--Liquid breathing and lung lavage (human).

P01HL-07896-15 0029 (HEP) BENNETT, PETER B. Environmental biomedical research program--Oxygen-helium diving resulting in high pressure nervous syndrome (human, animals).

P01HL-07896-15 0030 (HEP) BENNETT, PETER B. Environmental biomedical research program--Narcosis caused by inert gases at raised pressures (human, animals).

P01HL-07896-15 0032 (HEP) HEMPEL, FRANK G. Environmental biomedical research program--Fluorometry study of brain exposed to hyperbaric oxygen (dogs, cats).

P01HL-07896-15 0033 (HEP) SCHMIDT-NIELSEN, KNUT. Environmental biomedical research program--Breathing mechanism in birds.

P01HL-07896-15 0036 (HEP) JOHNSON, CHARLES E. Environmental biomedical research program--Respiratory heat loss in deep diving (infants, dogs).

P01HL-07896-15 0039 (HEP) CRAPO, J D. Environmental biomedical research program--Development of resistance to lethal effects of oxygen (rats).

P01HL-07896-15 0043 (HEP) SPOCK, A. Environmental biomedical research program--Effect of hyperbaric oxygen on the lung (human, rabbits).

P01HL-07896-15 0045 (HEP) MILLER, J N. Environmental biomedical research program--Extravascular lung water dynamics in pulmonary oxygen toxicity (human, baboons).

P01HL-07896-15 0046 (HEP) FARMER, JOSEPH C, JR. Environmental biomedical research program--Treatment of radiation induced tissue injury by hyperbaric oxygen (human).

P01HL-07896-15 0047 (HEP) LYNN, W S. Environmental biomedical research program--Pulmonary oxygen toxicity (chickens, rabbits).

P01HL-07896-15 0048 (HEP) OWYER, H JEFFREY. Environmental biomedical research program--Respiratory performance in divers at 1400 FSW.

P01HL-07896-15 0049 (HEP) SANDERS, A P. Environmental biomedical research program--Effects of hyperbaric oxygen and pressure on cerebral enzymes (rats).

P01HL-07896-15 0050 (HEP) VANN, R D. Environmental biomedical research program--Fundamental decompression concepts using the rat animal model.

P01HL-07896-15 0051 (HEP) HEMPEL, F G. Environmental biomedical research program--Relationships of retinal circulation to disease (rabbits).

P01HL-07896-15 0052 (HEP) DAVIS, JAMES M. Environmental biomedical research program--Effects of hypoxia on cerebral function.

P01HL-07896-15 0053 (HEP) POTH, P W. Environmental biomedical research program--Thermoregulation in asthmatics.

P01HL-07896-15 0054 (HEP) HACKEL, DONALD B. Environmental biomedical research program--Myocardial effects of hemorrhagic shock (dogs).

P01HL-07896-15 0055 (HEP) WANG, H S. Environmental biomedical research program--Cerebral blood flow by Xenon-133 inhalation (human).

P01HL-07896-15 0056 (HEP) KARIS, JOANNES H. Environmental biomedical research program--Neuromuscular blocking effects of nondepolarizing muscular relaxants (frogs).

P01HL-07896-15 0057 (HEP) PHILIP, R B. Environmental biomedical research program--Effects of dipyridamole and aspirin on decompression thrombocytopenia (human).

P01HL-07896-15 0058 (HEP) BRUMLEY, GEORGE W. Environmental biomedical research program--Lung synthesis of disaturated phosphatidylcholine (rats, dogs, bats).

P01HL-07896-15 0059 (HEP) CHITWOOD, W RANDOLPH. Environmental biomedical research program--Hyperoxygenation at elevated atmospheric pressure on myocardial blood flow (dogs).

P01HL-07896-15 0060 (HEP) COSTLOW, JOHN D. Environmental biomedical research program--Effect of pressure on development of marine crustacean larvae.

P01HL-07896-15 0061 (HEP) BELL, D G. Environmental biomedical research program--Oxygen cost of breathing during graded exercise (human).

P01HL-07896-15 0062 (HEP) ARGELES, H J. Environmental biomedical research program--Vectorcardiograms during diving (human, dogs).

P01HL-07896-15 0063 (HEP) WOLFE, WALTER G. Environmental biomedical research program--Oxygen toxicity (baboons).

P01HL-08214-15 (HEP) HOLMAN, RALPH T, HORMEL INSTITUTE, 801 16TH AVE NE, AUSTIN, MINN. Chemical and biological properties of lipids.

P01HL-08214-15 0005 (HEP) SCHLENK, HERMANN. Chemical and biological properties of lipids--Metabolism of lipids in animals.

P01HL-08214-15 0006 (HEP) HOLMAN, RALPH T. Chemical and biological properties of lipids--Analysis and properties of lipids.

P01HL-08214-15 0010 (HEP) CHIPAULT, J R. Chemical and biological properties of lipids--Infrared spectroscopy of lipids.

P01HL-08214-15 0023 (HEP) JENKIN, HOWARD M. Chemical and biological properties of lipids--Lipids in microorganisms and cell cultures (hamsters, mosquitoes).

P01HL-08214-15 0025 (HEP) SCHMID, HARALD H O. Chemical and biological properties of lipids--Biosynthesis and biological functions of plasmalogen (cattle).

P01HL-08214-15 0027 (HEP) BAUMANN, WOLFGANG J. Chemical and biological properties of lipids--Biological functions diol lipids (swine, rats, plants).

P01HL-08214-15 0030 (HEP) SCHMID, HARALD H O. Chemical and biological properties of lipids--Fatty acid biosynthesis in plant cell cultures and in plants.

P01HL-08214-15 0040 (HEP) BAUMANN, WOLFGANG J. Chemical and biological properties of lipids--Nuclear magnetic resonance studies of lipids.

P01HL-08214-15 0041 (HEP) BROCKMAN, HOWARD L. Chemical and biological properties of lipids--Physico-chemical regulation of enzymes in lipid metabolism.

P01HL-08214-15 0047 (HEP) PRIVETT, ORVILLE S. Chemical and biological properties of lipids--High resolution liquid chromatography for the analysis of biological substances.

P01HL-08214-15 0048 (HEP) SCHLENK, HERMANN. Chemical and biological properties of lipids--Lipids in microorganisms and plants.

R01HL-08299-16 (BIO) KLOTZ, IRVING M, NORTHWESTERN UNIVERSITY, 2145 SHERIDAN ROAD, EVANSTON, ILL. Molecular biology of hemerythrin and hemocyanin (invertebrates).

R01HL-08311-14 (PHRA) HARDMAN, HAROLD F, MED COLLEGE OF WISCONSIN, 561 NORTH 15TH STREET, MILWAUKEE, WIS. Effects of drugs upon myocardial hypoxia (dogs, turtles).

R01HL-08359-14 (PHRA) BEVAN, JOHN A, DEPARTMENT OF PHARMACOLOGY, SCHOOL OF MEDICINE, UCLA, LOS ANGELES, CALIF. Morphopharmacology of vascular adrenergic transmission (rabbits, rats).

R01HL-08399-15 (ALY) DES PREZ, ROGER M, VETERANS ADMINISTRATION HOSP, 1310 24TH AVENUE, SOUTH, NASHVILLE, TENN. Platelet injury in infections and allergic diseases (human).

R01HL-08506-15 (MET) REAVEN, GERALD M, STANFORD UNIVERSITY, SCHOOL OF MEDICINE, STANFORD, CALIF. Lipemia-carbohydrate and glyceride metabolism (human, rats).

R01HL-08508-15 (CVB) HOFFMAN, BRIAN F, COLLEGE OF PHYSICANS & SURGEON, 630 W 168 STREET, NEW YORK, NY. Cardiac conductivity and automaticity (human, dogs, rabbits).

R01HL-08570-15 (PHRA) ZIMMERMAN, BEN G, UNIVERSITY OF MINNESOTA, 435 DELAWARE STREET, MINNEAPOLIS, MINN. Pharmacologic and reflex influence on vascular tone (dogs, rabbits).

R01HL-08634-15 (MET) DEMPSEY, MARY E, UNIVERSITY OF MINNESOTA, BOX 68, MAYO BUILDING, MINNEAPOLIS, MINN. Enzymic cholesterol synthesis (human, rats, protozoa, yeast).

R01HL-08659-14 (CVA) DOWNING, S EVANS, YALE UNIVERSITY, 333 CEDAR STREET, NEW HAVEN, CONN. Myocardial performance and metabolism in the newborn (sheep).

P01HL-08682-15 (HEP) RANDALL, WALTER C, LOYOLA UNIV OF CHICAGO, 2160 SOUTH FIRST AVENUE, MAYWOOD, ILL. Regulation of the cardiovascular system.

P01HL-08682-15 0005 (HEP) DOBRIN, PHILIP B. Regulation of the cardiovascular system--Smooth muscle and mechanical properties of blood vessels (dogs, human).

P01HL-08682-15 0006 (HEP) JONES, STEVEN B. Regulation of the cardiovascular system--Cardiovascular studies of mammalian hibernators (sciuromorpha).

P01HL-08682-15 0011 (HEP) BRYNJOLFSSON, GISSUR. Regulation of the cardiovascular system--Histochemistry and ultrastructure of heart innervation (dogs, ground squirrels).

P01HL-08682-15 0015 (HEP) RANDALL, WALTER C. Regulation of the cardiovascular system--Projection of autonomic nerves onto the heart (dog).

P01HL-08682-15 0016 (HEP) RANDALL, WALTER C. Regulation of the cardiovascular system--Shifting cardiac pacemakers and AV nodal activation (dog).

P01HL-08682-15 0017 (HEP) RANDALL, WALTER C. Regulation of the cardiovascular system--Neurally induced cardiac dysrhythmias (dog).

P01HL-08682-15 0018 (HEP) RANDALL, WALTER C. Regulation of the cardiovascular system--Functional implications of cardiac afferent nerves (dogs).

P01HL-08682-15 0019 (HEP) FILKINS, JAMES P. Regulation of the cardiovascular system--Hepatic immunophysiology and host-defense in shock (rat, dog, human).

P01HL-08682-15 0020 (HEP) FILKINS, JAMES P. Regulation of the cardiovascular system--Hepatic metabolic basis of shock (rat).

P01HL-08682-15 0021 (HEP) FILKINS, JAMES P. Regulation of the cardiovascular system--Hypoglycemia in pathogenesis of shock (dog).

P01HL-08682-15 0022 (HEP) WURSTER, ROBERT D. Regulation of the cardiovascular system--Blood pressure responses and preganglionic sympathetic outflow (cat).

P01HL-08682-15 0023 (HEP) WURSTER, ROBERT D. Regulation of the cardiovascular system--Cardiovascular control--Effects of spinal pathways lesions (dog).

P01HL-08682-15 0024 (HEP) WURSTER, ROBERT D. Regulation of the cardiovascular system--Morphology of the spinal sympathetic system (cat).

P01HL-08682-15 0025 (HEP) WURSTER, ROBERT D. Regulation of the cardiovascular system--Physiology of preganglionic cell bodies (cat).

P01HL-08682-15 0026 (HEP) BRAVERMAN, BERTON. Regulation of the cardiovascular system--Hypertension--High renin vs low renin (dog).

P01HL-08682-15 0027 (HEP) BRAVERMAN, BERTON. Regulation of the cardiovascular system--Cardiac mechanoreceptors--Reflex regulation of renal function (dogs).

P01HL-08682-15 0031 (HEP) JACOBS, H KURT. Regulation of the cardiovascular system--Cardiac electrophysiology in hibernation (ground squirrel, marmot).

P01HL-08682-15 0033 (HEP) GEIS, W PETER. Regulation of the cardiovascular system--Functional and anatomical relations during cardiac re-innervation (dog).

P01HL-08682-15 0036 (HEP) SAYEED, MOHAMMED M. Regulation of the cardiovascular system--Electrolyte transport in myocardium with hemorrhagic shock (rats).

P01HL-08682-15 0037 (HEP) WEBBER, CHARLES L. Regulation of the cardiovascular system--Central nervous regulation of cardiopulmonary mechanisms (cats).

P01HL-08682-15 0038 (HEP) PACE, JOHN B. Regulation of the cardiovascular system--Control of pulmonary circulation (dogs).

R01HL-08696-15 (SGYA) SHUMWAY, NORMAN E, STANFORD UNIVERSITY, DEPT OF CARDIOVASCULAR SURGERY, STANFORD, CALIF Orthotopic heart transplantation.

R01HL-08696-15 0001 (SGYA) SHUMWAY, NORMAN E. Orthotopic heart transplantation--Transplantation immunology-Antithymocyte globulin (rabbits, monkeys).

R01HL-08696-15 0004 (SGYA) SHUMWAY, NORMAN E. Orthotopic heart transplantation-Transplantation immunology-Avian antibody studies (chickens, rats, rabbits).

R01HL-08696-15 0010 (SGYA) SHUMWAY, NORMAN E. Orthotopic heart transplantation--Transplantation immunology-Total lymphoid irradiation (dogs, primates)

R01HL-08696-15 0011 (SGYA) SHUMWAY, NORMAN E. Orthotopic heart transplantation--Transplantation immunology--Immunodepressive factor (human, dogs).

R01HL-08696-15 0012 (SGYA) SHUMWAY, NORMAN E. Orthotopic heart transplantation--Transplantation immunology-Modulation of donor antigenicity (dogs).

R01HL-08696-15 0013 (SGYA) SHUMWAY, NORMAN E. Orthotopic heart transplantation--Transplantation immunology--Cardiac heterotransplantation (rabbits, dogs).

R01HL-08696-15 0014 (SGYA) SHUMWAY, NORMAN E. Orthotopic heart transplantation--Transplantation immunology--Cardiac retransplantation (dogs).

R01HL-08696-15 0018 (SGYA) SHUMWAY, NORMAN E. Orthotopic heart transplantation--Training in cardiac transplantation.

R01HL-08696-15 0019 (SGYA) SHUMWAY, NORMAN E. Orthotopic heart transplantation--Suppressor cell stimulation (dogs, mice).

R01HL-08696-15 0020 (SGYA) SHUMWAY, NORMAN E. Orthotopic heart transplantation--Complete cardiopulmonary transplantation (dogs).

R01HL-08789-11 (CVA) SHARP, JOHN T, VETERANS ADMINISTRATION HOSP, POST OFFICE BOX 7, HINES, ILL. Respiratory muscles and ventilatory control in man (and dogs).

P01HL-08805-15 (HEPA) FISHMAN, ALFRED P, HOSP/UNIV OF PENNSYLVANIA, 34TH & SPRUCE STREETS, PHILADELPHIA, PA. Regulation of ventilation and pulmonary circulation.

P01HL-08805-15 0006 (HEPA) FISHMAN, ALFRED P. Regulation of ventilation and pulmonary circulation--Adaptation of lungfish--Estivation.

P01HL-08805-15 0025 (HEPA) PIETRA, GUISEPPE G. Regulation of ventilation and pulmonary circulation--Pulmonary edema (rabbits).

P01HL-08805-15 0039 (HEPA) LAHIRI, S. Regulation of ventilation and pulmonary circulation--Carotid body (cats).

P01HL-08805-15 0042 (HEPA) PIETRA, GUISEPPE G. Regulation of ventilation and pulmonary circulation--Electron microscope core research laboratory.

P01HL-08805-15 0043 (HEPA) PIETRA, GUISEPPE G. Regulation of ventilation and pulmonary circulation--Computer core facility.

P01HL-08805-15 0044 (HEPA) FISHMAN, ALFRED P. Regulation of ventilation and pulmonary circulation--Neurochemical interactions in respiratory control (human, dogs, goats).

P01HL-08805-15 0045 (HEPA) PACK, A. Regulation of ventilation and pulmonary circulation--Integrated description of neurochemical respiratory control system.

P01HL-08805-15 0046 (HEPA) DAVIES, RICHARD O. Regulation of ventilation and pulmonary circulation--Sites and modes of interaction of peripheral and central chemoreceptors.

P01HL-08805-15 0047 (HEPA) LEVINE, S. Regulation of ventilation and pulmonary circulation--Extracranial metabolic control of ventilation (dogs, goats).

P01HL-08805-15 0048 (HEPA) PIETRA, GUISEPPE G. Regulation of ventilation and pulmonary circulation--Permeability of alveolo--Capillary membrane in normal pulmonary hypertensive lung.

P01HL-08805-15 0049 (HEPA) KNIGHT, DAVID H. Regulation of ventilation and pulmonary circulation--Pulmonary hypertension produced by Dirofilaria immitis in the dog.

P01HL-08805-15 0050 (HEPA) WEBER, K T. Regulation of ventilation and pulmonary circulation--Right ventricular mechanics (dogs).

R01HL-08888-12 (SRC) CANNER, PAUL, UNIVERSITY OF MARYLAND, 600 WYNDHURST AVENUE, BALTIMORE, MD. Cooperative study of drugs and coronary heart disease (men).

R01HL-08892-10 (SRC) BERGE, KENNETH B, MAYO FOUNDATION, 200 FIRST ST SOUTHWEST, ROCHESTER, MINN. Cooperative study of drugs and coronary heart disease.

R01HL-08893-14 (BBCB) GUIDOTTI, GUIDO, HARVARD UNIVERSITY, 16 DIVINITY AVENUE, CAMBRIDGE, MASS. Structure and function of membrane proteins (human).

P01HL-08899-14 (HEP) LAMBERTSEN, CHRISTIAN J, UNIVERSITY OF PENNSYLVANIA, 36TH AND HAMILTON WALK, PHILADELPHIA, PA. Tolerance to respiratory gases in health and disease.

P01HL-08899-14 0003 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Inert gas exchange in the eye (human, dogs).

P01HL-08899-14 0006 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Effects of extreme pressures of inert gases in macaque monkey.

P01HL-08899-14 0007 (HEP) NICHOLS, C J. Tolerance to respiratory gases in health and disease--Effects of high oxygen pressures on visual function (human, animals).

P01HL-08899-14 0008 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Hypoxia in regards to respiratory and brain circulatory control (goats).

P01HL-08899-14 0010 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease--High oxygen pressure in septic shock (human).

P01HL-08899-14 0012 (HEP) REIVICH, M. Tolerance to respiratory gases in health and disease--High oxygen for normal brain metabolism and circulation in man.

P01HL-08899-14 0013 (HEP) REIVICH, M. Tolerance to respiratory gases in health and disease--Oxygen and carbon dioxide effects upon human brain metabolism.

P01HL-08899-14 0014 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Cellular and renal responses to hypercapnia and hypocapnia (dogs).

P01HL-08899-14 0015 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease-Respiratory adaptations to increases in breathing (human)

P01HL-08899-14 0017 (HEP) LAMBERTSEN, CHRISTIAN J Tolerance to respiratory gases in health and disease-Pulmonary tolerance (human, dogs)

P01HL-08899-14 0018 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease-Effects of respiratory gases at extreme pressures (human)

P01HL-08899-14 0019 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease-High oxygen pressure upon carotid chemoreceotor (cats)

P01HL-08899-14 0020 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Oxygen tolerance (human, rats, guinea pigs).

P01HL-08899-14 0021 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Renal oxygen toxicity (dogs)

P01HL-08899-14 0022 (HEP) LAMBERTSEN, CHRISTIAN D. Tolerance to respiratory gases in health and disease-Effect of inert gas and hydrostatic pressures on physiological functions (monkey).

P01HL-08899-14 0023 (HEP) LAHIRI, S. Tolerance to respiratory gases in health and disease--Hypoxia and hyperoxia in respiratory response in regards to PCO2 (human).

P01HL-08899-14 0024 (HEP) GELFANO, ROBERT. Tolerance to respiratory gases in health and disease--Effects of oxygen pressures on physiological control systems (human, dogs).

P01HL-08899-14 0025 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Effects of oxygen on cardiopulmonary gas transport functions (dogs).

P01HL-08899-14 0026 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Effects of oxygen on central nervous system functions (rats, rabbits).

P01HL-08899-14 0027 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Effects of high oxygen pressures on ethanol metabolism (human).

P01HL-08899-14 0028 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Inert gas exchange, oxygen influences-organs and tissues (human, rabbits, dogs).

P01HL-08899-14 0029 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Isobaric gas counter diffusion phenomena (human, pigs).

P01HL-08899-14 0030 (HEP) GELFANO, ROBERT. Tolerance to respiratory gases in health and disease--Dynamic characteristics of respiratory control components (human, cats).

P01HL-08899-14 0031 (HEP) GELFAND, ROBERT. Tolerance to respiratory gases in health and disease--Studies in exercise (human, dogs).

P01HL-08899-14 0032 (HEP) GELFANO, ROBERT. Tolerance to respiratory gases in health and disease--Effects of high oxygen pressures upon respiratory control.

P01HL-08899-14 0033 (HEP) GELFANO, ROBERT. Tolerance to respiratory gases in health and disease--Acid-base related influences of hypoxia (human).

P01HL-08899-14 0034 (HEP) GELFANO, ROBERT. Tolerance to respiratory gases in health and disease--Hyperoxygenation and respiratory response to acid-base stimuli (human, dog).

P01HL-08899-14 0035 (HEP) CLARK, JAMES M. Tolerance to respiratory gases in health and disease--Simulation of the increased metabolism of exercise (dogs).

P01HL-08899-14 0036 (HEP) CLARK, JAMES M. Tolerance to respiratory gases in health and disease--Chemical and neurogenic components of respiratory simulation in exercise (human).

P01HL-08899-14 0038 (HEP) PROCKOP, LEON D. Tolerance to respiratory gases in health and disease--Brain vessels change in alveolar arterial gas tensions (human, monkeys).

P01HL-08899-14 0039 (HEP) WOLLMAN, HARRY. Tolerance to respiratory gases in health and disease--Dose-response studies of oxygen on CO2 reactivity in brain vessels (human).

P01HL-08899-14 0040 (HEP) PUGLIA, CHARLES D. Tolerance to respiratory gases in health and disease--Metabolic gas influence on brain vascular tissue (animals).

P01HL-08899-14 0041 (HEP) GELFANO, ROBERT. Tolerance to respiratory gases in health and disease--Blood gas transport and brain circulatory control (human).

P01HL-08899-14 0042 (HEP) CLARK, JAMES M. Tolerance to respiratory gases in health and disease--Definitions and extension of oxygen tolerance in organ systems (animals).

P01HL-08899-14 0043 (HEP) PROCKOP, LEON D. Tolerance to respiratory gases in health and disease--Oxygen effects upon CNS and sensory functions (human).

P01HL-08899-14 0044 (HEP) LAMBERTSON, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Influence of high oxygen pressures on cognition and performance.

P01HL-08899-14 0045 (HEP) FLETCHER, DOROTHY. Tolerance to respiratory gases in health and disease--Studies in normal subjects.

P01HL-08899-14 0046 (HEP) KRON, REUBEN E. Tolerance to respiratory gases in health and disease--Studies in senile elderly individuals.

P01HL-08899-14 0047 (HEP) LAMBERTSON, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Oxygen effects on visual function (human).

P01HL-08899-14 0048 (HEP) NICHOLS, CHARLES W. Tolerance to respiratory gases in health and disease--Changes in human vision during known tolerable exposures.

P01HL-08899-14 0049 (HEP) NICHOLS, CHARLES W. Tolerance to respiratory gases in health and disease--Dose-response measures of severe oxygen toxicity (monkeys).

P01HL-08899-14 0050 (HEP) ROCKEY, JOHN H. Tolerance to respiratory gases in health and disease--Effects of high oxygen pressures on visual pigment functions (monkeys).

P01HL-08899-14 0051 (HEP) HAUGAARD, NIELS. Tolerance to respiratory gases in health and disease--Oxygen effects upon isolated retinal metabolism (rabbits, monkeys).

P01HL-08899-14 0052 (HEP) FLETCHER, DOROTHY. Tolerance to respiratory gases in health and disease--Oxygen effects on auditory and vestibular function (human, guinea pigs).

P01HL-0BB99-14 0054 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Glucose transport across choroid plexus (dogs).

P01HL-0BB99-14 005S (HEP) CLARK, JAMES M. Tolerance to respiratory gases in health and disease--Dxygen effects on organ functions--Extension of tolerance.

P01HL-0BB99-14 005S (HEP) CLARK, JAMES M. Tolerance to respiratory gases in health and disease--Extension of pulmonary oxygen tolerance at increased pressures (animals).

P01HL-08B99-14 0057 (HEP) CLARK, JAMES M. Tolerance to respiratory gases in health and disease--Studies of intermittent exposure in man.

P01HL-0B899-14 0061 (HEP) SOLOWAY, ROGER D. Tolerance to respiratory gases in health and disease--Hepatic oxygenation and secretory functions (rats, dogs).

P01HL-0BB99-14 0062 (HEP) COOPER, DAVID Y. Tolerance to respiratory gases in health and disease--Influence of oxygen at high pressure upon oxidation (rats).

P01HL-0BB99-14 0064 (HEP) LAMBERTSON, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Narcotic effects of inert gases on functional systems (rats).

P01HL-08B99-14 006S (HEP) LAMBERTSON, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Adaptation and effects of narcotic gases exposure (human).

P01HL-0BB99-14 0066 (HEP) FLETCHER, DOROTHY. Tolerance to respiratory gases in health and disease--Neurophysiulogical effects of inert gases in man.

P01HL-0BB99-14 0067 (HEP) NICHOLS, CHARLES W. Tolerance to respiratory gases in health and disease--Inert gas influences upon visual function in man.

P01HL-0BB99-14 0072 (HEP) QUINN, JOHN A. Tolerance to respiratory gases in health and disease--Inert gas exchange isobaric gas counterdiffusion and decompression.

P01HL-08899-14 0073 (HEP) QUINN, JOHN A. Tolerance to respiratory gases in health and disease--Biophysical mechanisms involved in isobaric gas counterdiffusion syndrome.

P01HL-08899-14 0074 (HEP) QUINN, JOHN A. Tolerance to respiratory gases in health and disease--Biomathematical analysis of isobaric gas exchange and bubble formation.

P01HL-08899-14 007S (HEP) QUINN, JOHN A. Tolerance to respiratory gases in health and disease--Gas diffusion rates and bubble formation across membranes (animals).

P01HL-0BB99-14 0076 (HEP) QUINN, JOHN A. Tolerance to respiratory gases in health and disease--Bubble formation during gas counterdiffusion (hamsters).

P01HL-0BB99-14 0077 (HEP) QUINN, JOHN A. Tolerance to respiratory gases in health and disease--Isobaric gas supersaturation patterns.

P01HL-0B899-14 007B (HEP) LAMBERTSON, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Isobaric gas counterdiffusion--Sensory, cutaneous and systemic function (animals).

P01HL-0BB99-14 0079 (HEP) LAMBERTSON, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Physiological factors in counterdiffusion bubble formation (human, pigs).

P01HL-0B899-14 00B0 (HEP) LAMBERTSON, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Oynamic quantitation of continuous isobaric gas embolization.

P01HL-08B99-14 0085 (HEP) LAMBERTSEN, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Search for gas bubbles in vestibular fluids (animals).

P01HL-0BB99-14 00B9 (HEP) LAMBERTSON, CHRISTIAN J. Tolerance to respiratory gases in health and disease--Decompression by applications of optimal control theory.

P01HL-0B974-14 (HEPB) STRONG, JACK P, LOUISIANA STATE UNIVERSITY, 1542 TULANE AVENUE, NEW ORLEANS, LA. Natural and experimental atherosclerosis.

P01HL-0B974-14 000S (HEPB) OALMANN, MARGARET C. Natural and experimental atherosclerosis--Atherosclerosis, coronary heart disease and sudden death (human).

P01HL-0B974-14 0024 (HEPB) EGGEN, DOUGLAS A. Natural and experimental atherosclerosis--Atherosclerosis, sterol and lipoprotein metabolism in nonhuman primates.

P01HL-08974-14 0028 (HEPB) TRACY, RICHARD E. Natural and experimental atherosclerosis--Geographic pathology of atherosclerosis and coronary heart disease (human).

P01HL-08974-14 9001 (HEPB) BHATTACHARYYA, ASHIM K. Natural and experimental atherosclerosis--Core--Lipid chemistry laboratory.

P01HL-0B974-14 9002 (HEPB) TRACY, RICHARD E. Natural and experimental atherosclerosis--Core--Histology and histochemistry laboratory.

R01HL-08977-14 (PHY) WAYLAND, HAROLD, CALIFORNIA INST OF TECHNDLOGY, 1201 EAST CALIFORNIA BLVO, PASAOENA, CALIF. Quantitation of flow and solute flux in microvessels (cats, rats).

P01HL-09011-15 (HEPB) KELLNER, AARON, NEW YORK BLOOD CENTER, 310 EAST 67TH STREET, NEW YORK, N Y. A research and resource program in blood.

P01HL-09011-1S 0001 (HEPB) ALLEN, FRED H. A research and resource program in blood--Genetic markers of human blood and gene mapping (human).

P01HL-09011-15 0002 (HEPB) BLOMBACK, G BIRGER. A research and resource program in blood--Biosynthesis of fibrinogen (dogs).

P01HL-09011-1S 0005 (HEPB) NEURATH, A R. A research and resource program in blood--Characterization of hepatitis-B antigen and the cause of serum hepatitis (human).

P01HL-09011-1S 0009 (HEPB) POGO, A OSCAR. A research and resource program in blood--Control of RNA synthesis in nucleated cells (yeast, ascites cell).

P01HL-09011-1S 0010 (HEPB) GERMAN, JAMES. A research and resource program in blood--Chromosome changes in human genetics.

P01HL-09011-15 0012 (HEPB) FALK, CATHERINE T. A research and resource program in blood--Theoretical population genetics (human).

P01HL-09011-1S 0013 (HEPB) RUBINSTEIN, PABLO. A research and resource program in blood--A quantitative study of immunological enhancement (mice).

P01HL-09011-1S 001S (HEPB) REDMAN, COLVIN M. A research and resource program in blood--Regulation of synthesis and transport of diverse proteins in liver (rats).

P01HL-09011-1S 0017 (HEPB) BRODHEIM, ERIC. A research and resource program in blood--Dperations research laboratory.

P01HL-09011-1S 001B (HEPB) SZMUNESS, WOLF. A research and resource program in blood--Hepatitis B in normal populations--Epidemiology, risk factors and transmission.

P01HL-09011-1S 0019 (HEPB) POGO, A OSCAR. A research and resource program in blood--The transport mechanism of mRNA (rat, yeast, ascites cells).

P01HL-09011-15 0020 (HEPB) SZMUNESS, WOLF. A research and resource program in blood--Passive immunization in the prevention of transmission of hepatitis B (human).

P01HL-09011-15 0021 (HEPB) WAINFAN, E. A research and resource program in blood--Regulation of transfer RNA methylating enzymes (rats, E coli).

P01HL-09011-15 0022 (HEPB) ROWE, A W. A research and resource program in blood--Cryopreservation of blood components (human).

P01HL-09011-15 0023 (HEPB) SZMUNESS, WOLF. A research and resource program in blood--Evaluation of hepatitis B vaccine in endemic settings (human).

R01HL-0912S-14 (MBY) KARNOVSKY, MORRIS J, HARVARO MEDICAL SCHOOL, 25 SHATTUCK STREET, BOSTON, MASS. Ultrastructural cytochemistry (human, chick).

R01HL-09154-14 (CVB) HERD, JAMES A, HARVARD MEDICAL SCHODL, 25 SHATTUCK STREET, BDSTON, MASS. Central control of distribution of organ blood flow (monkeys).

R01HL-09163-13 (SSS) SHAPIRO, SANDOR S, JEFFERSON MEDICAL COLLEGE, 1015 WALNUT STREET, PHILADELPHIA, PA. Control mechanisms in hemostasis (human).

R01HL-09172-15 (PC) RABINOWITZ, MURRAY, UNIVERSITY OF CHICAGO, 950 EAST 59 STREET, CHICAGO, ILL. Protein and RNA synthesis in heart muscle (rats).

R01HL-09234-13 (CVB) WELTY, JOSEPH D, JR, UNIVERSITY OF SOUTH DAKDTA, SCHOOL DF MEDICINE, VERMILLION, S OAK. Amino acids of contractile proteins of failing hearts (dogs, hamsters).

R01HL-09283-14 (PHRA) GREENBERG, MICHAEL J, FLORIDA STATE UNIVERSITY, DEPT OF BIOLOGICAL SCIENCES, TALLAHASSEE, FLA. Pharmacology of molluscan hearts (also rabbits).

R01HL-0931S-15 (SGYB) SABISTON, DAVID C, JR, DUKE UNIVERSITY, DEPT OF SURGERY, OURHAM, N C. Coronary insufficiency and myocardial revascularization (human, dogs).

R01HL-09364-14 (BIO) BRIERLEY, GERALD P, OHIO STATE UNIVERSITY, DEPT OF PHYSIOLOGICAL CHEM, COLUMBUS, OHID. Ion transport by heart mitochondria (cattle, rat, rabbit).

R01HL-09474-11 (TEC) VLAD, PETER, CHILORENS HOSPITAL, 219 BRYANT STREET, BUFFALD, N Y. Natural history-congenital heart defects--Joint study (human).

R01HL-09476-10 (TEC) NADAS, ALEXANDER S, CHILDREN'S HOSP MEOICAL CENTER, 300 LONGWOOD AVENUE, BOSTON, MASS. Natural history, congenital heart defects--Joint study.

R01HL-094B9-13 (MET) VAHOUNY, GEORGE V, GEDRGE WASHINGTON UNIVERSITY, 2300 EYE STREET, N W, WASHINGTON, O C. Myocardial lipid metabolism and regulation (rats).

R01HL-09S44-12 (BBCB) HARTSHORNE, DAVID J, CARNEGIE-MELLON UNIVERSITY, 4400 FIFTH AVENUE, PITTSBURGH, PA. Biochemistry of contractile proteins (animals).

R01HL-09S62-14 (CVB) SCHREIBER, SIDNEY S, VETERANS ADMINISTRATION HOSP, 408 FIRST AVENUE, NEW YORK, N Y. Cardiac protein synthesis, overload, alcohol and anoxia (guinea pigs).

R01HL-09609-11 (SGYB) COLGAN, FRANK J, UNIVERSITY OF ROCHESTER, 260 CRITTENOEN BOULEVARD, ROCHESTER, N Y. Lung volume and breathing mechanics during anesthesia (human).

R01HL-09610-14 (GMA) DIETSCHY, JOHN M, UNIVERSITY OF TEXAS, 5323 HARRY HINES BOULEVARD, OALLAS, TEX. Control of cholesterol metabolism--Bile acid transport.

R01HL-09622-14 (PTHA) STILL, WILLIAM J, VIRGINIA COMMONWEALTH UNIV, 1200 EAST BROAD STREET, RICHMONO, VA. Pathogenesis of atherosclerosis (rats).

R01HL-09711-13 (CVA) GREENFIELD, JOSEPH C, JR, DUKE UNIVERSITY, POST OFFICE BOX 3246, OURHAM, N C. Instantaneous blood flow in ascending aorta (human, dogs).

R01HL-09739-13 (BBCA) ONCLEY, J LAWRENCE, 1257 1ST BUILOING, 2200 BDNISTEEL BDULEVARD, ANN ARBOR, MICH. Biophysical studies of proteins (human).

R01HL-09744-14 (NTN) PORTMAN, OSCAR W, DREGON REG PRIMATE RES CENTER, 505 N W 185TH AVENUE, BEAVERTON, OREG. Experimental vascular sclerosis (monkeys, rabbits).

R01HL-09B31-12 (CVB) RUSH, STANLEY, UNIVERSITY DF VERMONT, VOTEY BUILOING, BURLINGTDN, VT. Effect of resistivity variations on electrocardiogram (human).

R01HL-09902-13 (HEM) DODDS, W JEAN, NEW YORK STATE OEPT OF HEALTH, EMPIRE STATE PLAZA, ALBANY, N Y. Comparative study of coagulation and vascular disease (animals).

R01HL-09906-13 (PHY) HOFFMAN, JOSEPH F, YALE UNIVERSITY, 333 CEDAR STREET, NEW HAVEN, CONN. Membrane transport processes in red blood cells.

RC1HL-09906-13 001B (PHY) KAPLAN, J H. Membrane transport processes in red blood cells--Rapid photolytic release of ATP from a protected analog--Na-K pump of RBC ghosts.

R01HL-09906-13 0019 (PHY) FREEDMAN, J C. Membrane transport processes in red blood cells--Hemoglobin change and membrane potentials in red blood cells at varying volumes.

R01HL-09906-13 0020 (PHY) FREEDMAN, J C. Membrane transport processes in red blood cells--Calibration of a fluorescent probe for erythrocytes.

R01HL-09906-13 0021 (PHY) CALLAHAN, T J. Membrane transport processes in red blood cells--Membrane potentials in human red blood cells due to proton gradients.

R01HL-09906-13 0022 (PHY) CASTRANOVA, V. Membrane transport processes in red blood cells--Anion transport in dog and cat red cells.

R01HL-09906-13 0023 (PHY) CASTRANOVA, V. Membrane transport processes in red blood cells--Cation and anion movements in two sub-groups of dog erythrocytes.

R01HL-09906-13 0024 (PHY) RAKITZIS, E T. Membrane transport processes in red blood cells--Inhibition of sulfate transport in human RBCs by isothiocyanic acid esters.

R01HL-09906-13 0025 (PHY) GOLDINGER, J M. Membrane transport processes in red blood cells-Mechanism of propranolol induced Ca-dependent K etflux from human RBCs.

R01HL-09911-12 (CVB) HALL, CHARLES E, UNIVERSITY OF TEXAS, PHY & BIOPHYSICS OEPARTMENT, GALVESTON, TEX. Hormonal and dietary modification of NaC1 toxicity (rats) mice)

R01HL-09913-13 (RAD) HUANG, PENG Y, MT SINAI SCHOOL OF MEOICINE, 100TH ST & FIFTH AVENUE, NEW YORK, N Y Cerebral veins-Anatomic and radiologic correlation (human).

R01HL-09914-13 (CVB) REGAN, TIMOTHY J, NEW JERSEY OF MEOICAL SCHOOL, 100 BERGEN STREET, NEWARK, N J. The myocardium in diabetes mellitus (dogs, monkeys).

R01HL-09921-13 (GMB) MC CAA, ROBERT E, UNIVERSITY OF MISSISSIPPI, 2500 NORTH STATE STREET, JACKSON, MINN Mechanisms related to congestive heart failure (dogs, human, rat).

R01HL-10009-13 (CVA) OAWSON, ARTHUR O, SCRIPPS CLINIC & RES FON, 10666 NORTH TORREY PINES ROAO , LA JOLLA, CALIF. Regional lung function in man.

R01HL-10018-11 (MET) MC CARL, RICHARO L, PENNSYLVANIA STATE UNIVERSITY, BIOCHEMISTRY & BIOPHYSICS OEPT, UNIVERSITY PARK, PA. Effect of aging on beating heart cells in culture (rats).

R01HL-10036-13 (HEM) LALEZARI, PARVIZ, MONTEFIORE HOSPITAL & MEO CTR, 111 EAST 210TH STREET, BRONX, N Y. Biology of red cell antigen-antibody reaction (human).

R01HL-10160-13 (MET) SMITH, LELAND L, UNIVERSITY OF TEXAS, MEOICAL BRANCH, GALVESTON, TEX. Origins of atherosclerosis (human).

R01HL-10182-13 (PHY) CANNON, PAUL J, COLL OF PHYSICIANS & SURGEONS, 630 WEST 168TH STREET, NEW YORK, N Y. Circulatory function and electrolytic metabolism (dogs, human).

R01HL-10316-13 (MET) FISHER, WALOO R, UNIVERSITY OF FLORIOA, BOX J-226, GAINESVILLE, FLA. Structural studies on low density serum lipoproteins (human).

R01HL-10330-11 (CVA) NOOROERGRAAF, ABRAHAM, UNIVERSITY OF PENNSYLVANIA, OEPT OF BIOENGINEERING 02, PHILAOELPHIA, PA. Physiological mechanics of the heart and arteries (dogs, rabbits, horses).

P01HL-10342-13 (HLBA) PERMUTT, SOLBERT, JOHNS HOPKINS UNIVERSITY, 615 NORTH WOLFE STREET, BALTIMORE, MO. The integrated function of respiration and circulation.

P01HL-10342-13 0006 (HLBA) MITZNER, WAYNE. The integrated function of respiration and circulation--Lung inflation effects on pulmonary vasculature and interstitial space (dogs).

P01HL-10342-13 000B (HLBA) PERMUTT, SOLBERT. The integrated function of respiration and circulation--Respiratory mechanics and the circulation (human, dogs).

P01HL-10342-13 0011 (HLBA) FITZGERALD, ROBERT S. The integrated function of respiration and circulation--Control of respiration 1--Peripheral chemoreceptor studies (cats).

P01HL-10342-13 0014 (HLBA) GURTNER, GAIL H. The integrated function of respiration and circulation--Oxygen and carbon monxide transfer (human, dogs, sheep).

P01HL-10342-13 0019 (HLBA) TRAYSTMAN, RICHARO J. The integrated function of respiration and circulation--Cerebral circulation and metabolism (dogs).

P01HL-10342-13 0023 (HLBA) SYLVESTER, JIMMIE T. The integrated function of respiration and circulation--Carbon dioxide transport and CSF acid base balance (hogs, pigs).

P01HL-10342-13 0024 (HLBA) BURNS, BARRY. The integrated function of respiration and circulation--Cytochrome P450 and physiological response to hypoxia (rats).

P01HL-10342-13 002S (HLBA) BURNS, BARRY. The integra respiration and circulation--Pulmonary gas exchange and metabolism (human, dogs, sheep).

P01HL-10342-13 0026 (HLBA) FITZGERALD, ROBERT S. The integrated function of respiration and circulation--Control of respiration--Characterization of the aortic body (cats).

P01HL-10342-13 0027 (HLBA) FITZGERALO, ROBERT S. The integrated function of respiration and circulation--Control of respiration--Cardiovascular adjustment to hypoxia and carbon monoxide.

P01HL-10342-13 0028 (HLBA) BLEECKER, EUGENE R. The integrated function of respiration and circulation--Mediator release, hemodynamics and respiratory function in anaphylaxis (dogs).

P01HL-10342-13 9001 (HLBA) BROMBERGER-BARNEA, BARUCH. The integrated function of respiration and circulation--Technical core.

R01HL-103B3-12 (BBCA) HO, CHIEN, UNIVERSITY OF PITTSBURGH, OEPARTMENT OF LIFE SCIENCES, PITTSBURGH, PA. Physical-chemical studies of hemoglobins and erythrocyte (human).

R01HL-103B4-13 (CVB) BERNE, ROBERT M, UNIVERSITY OF VIRGINIA, OEPT OF PHYSIOLOGY, CHARLOTTESVILLR, VA. Blood flow and nucleotide metabolism (animals).

R01HL-10417-12 (CVB) PLONSEY, ROBERT, CASE WESTERN RESERVE UNIV, 500 WICKENOEN BUILOING, CLEVELAND, OHIO. Multiple systems in electrocardiography (human).

P01HL-10436-13 (HEP) NAOAS, ALEXANOER S, CHILOREN'S HOSPITAL, 300 LONGWOOO AVENUE, BOSTON, MASS. A multidisciplinary study ot congenital heart disease.

P01HL-10436-13 0001 (HEP) NAOAS, ALEXANOER S. A multidisciplinary study of congenital heart disease--Assessment of the outlook for children with congenital heart disease.

P01HL-10436-13 0002 (HEP) GAMBLE, WALTER J. A multidisciplinary study of congenital heart disease--Myocardial performance, metabolism and ultrastructure (human, cats, rats).

P01HL-10436-13 0005 (HEP) STREIDER, DENISE J. A multidisciplinary study of congenital heart disease--Pulmonary physiology in congenital heart disease (human).

P01HL-10436-13 0006 (HEP) LAFARGE, C GRANT. A multidisciplinary study of congenital heart disease--Ventricular blood pumps and valves (human, cattle).

P01HL-10436-13 000B (HEP) ROSENTHAL, AMNON. A multidisciplinary study of congenital heart disease--Physiologic consequences of chronic hypoxemia (human).

P01HL-10436-13 0009 (HEP) VANPRAAGH, RICHARO. A multidisciplinary study of congenital heart disease--Pathophysiology and morphogenesis of congenital heart disease (human).

P01HL-10436-13 0014 (HEP) VATNER, STEPHEN F. A multidisciplinary study of congenital heart disease-Cardiovascular pharmacology (dog)

P01HL-10436-13 0015 (HEP) VATNER, STEPHEN F. A multidisciplinary study ot congenital heart disease-Fetal and neonatal cardiovascular physiology (sheep)

P01HL-10436-13 0016 (HEP) GERALD, PARK S. A multidisciplinary study of congenital heart disease-Genetic studies of congenital heart disease (human)

R01HL-10445-09 (TEC) FROST, PHILIP H, U S PUBLIC HEALTH SERVICE HOSP, 15TH AVENUE & LAKE STR, SAN FRANCISCO, CA Cooperative study ot drugs and coronary heart disease (men)

R01HL-10503-13 (PHY) PAGE, ERNEST, UNIVERSITY OF CHICAGO, 950 EAST 59TH STREET, CHICAGO, ILL Cardiac ion transport and ultrastructure (rats, guinea pigs, rabbits)

P01HL-10539-12 (HEP) ABELMANN, WALTER H, DEPARTMENT OF MEOICINE, BETH ISRAEL HOSPITAL, BOSTON, MASS. Pathophysiology of circulation.

P01HL-10539-12 0023 (HEP) BENSON, HERBERT. Pathophysiology of circulation--The relaxation response and therapy of disease states (human)

P01HL-10S39-12 0031 (HEP) BENSON, HERBERT. Pathophysiology ot circulation--Post myocardial infarction care--Psychological aspects (human).

P01HL-10S39-12 0064 (HEP) HARTLEY, L HOWARO. Pathophysiology of circulation--Exercise physiology and pathophysiology (human).

P01HL-10539-12 0065 (HEP) BENSON, HERBERT. Pathophysiology of circulation--Physiologic correlates ot relaxation (human).

P01HL-10S39-12 0066 (HEP) BENSON, HERBERT. Pathophysiology ot circulation--Usefulness of relaxation response in industrial settings.

P01HL-10S39-12 0067 (HEP) BING, OSCAR H L. Pathophysiology of circulation--Mechanical, electrophysiological studies--Isolated heart muscle (dog, rat).

P01HL-10539-12 0068 (HEP) ABELMANN, WALTER H. Pathophysiology ot circulation--Acute and chronic cardiomyopathies (mice, dogs, hamsters, human).

P01HL-10S39-12 0069 (HEP) ABELMANN, WALTER H. Pathophysiology of circulation--Ventricular compliance and mechanics in intact ventricles (human).

P01HL-10S39-12 0070 (HEP) RADVANY, PAULO. Pathophysiology of circulation--Effects of hypertension on myocardial blood flow after coronary occlusion (dogs).

R01HL-10567-12 (HEM) LANGE, ROBERT O, UNIVERSITY OF TENNESSEE, 1924 ALCOA HIGHWAY, KNOXVILLE, TENN. Erythropoietin--Immunoassay and characterization (dogs).

R01HL-105B2-12 (SSS) BRINKHOUS, KENNETH M, UNIVERSITY OF NORTH CAROLINA, OEPARTMENT OF PATHOLOGY, CHAPEL HILL, N C. Thrombosis and hemostasis--Analysis, methods and standards (human, cattle, venom).

R01HL-10608-12 (ALY) BUTLER, VINCENT P, JR, COLUMBIA UNIVERSITY, 630 W 168TH STREET, NEW YORK, N Y. Oigoxin-specific antibodies (human).

R01HL-10612-13 (CVB) DAVIS, JAMES O, UNIVERSITY OF MISSOURI, PHYSIOLOGY OEPARTMENT, COLUMBIA, MO. Humoral factors in heart failure and hypertension.

R01HL-10612-13 001B (CVB) DAVIS, JAMES O. Humoral factors in heart failure and hypertension--The pathogenesis of experimental renal hypertension (dogs, rabbits, rats).

R01HL-10612-13 0019 (CVB) OAVIS, JAMES O. Humoral factors in heart failure and hypertension--Pathogenesis of hypertension in the spontaneous hypertensive rat.

R01HL-10612-13 0020 (CVB) DAVIS, JAMES O. Humoral factors in heart failure and hypertension--The control of renin release in the dog.

R01HL-10612-13 0021 (CVB) DAVIS, JAMES O. Humoral factors in heart failure and hypertension--The control of aldosterone secretion (dogs).

R01HL-10622-12 (CVA) SACKNER, MARVIN A, MT SINAI MEOICAL CENTER, 4300 ALTON ROAO, MIAMI BEACH, FLA. Volumes and compliance of pulmonary circulation (human, dogs).

R01HL-10642-18 (SSS) GLOMSET, JOHN A, UNIVERSITY OF WASHINGTON, OEPARTMENT OF BIOCHEMISTRY, SEATTLE, WASH. Plasma cholesterol metabolism (human, macaca).

R01HL-1070S-09 (TEC) SCHLANT, ROBERT C, EMORY UNIVERSITY, 69 BUTLER STREET, S E, ATLANTA, GA. Cooperative study of drugs and coronary heart disease (men).

R01HL-10711-12 (TEC) SMITH, WILLIAM M, U S PUBLIC HEALTH SERVICE HOSP, 15TH AVE & LAKE ST, SAN FRANCISCO, CALIF. Cooperative study of treatment of hypertension (human).

R01HL-10718-10 (TEC) NEILL, CATHERINE A, JOHNS HOPKINS HOSPITAL, SCHOOL OF MEOICINE, BALTIMORE, MO. Natural history of congenital heart defects--Joint study (human).

R01HL-10B34-09 (HEO) CASSIN, SIDNEY, UNIVERSITY OF FLORIOA, OEPARTMENT OF PHYSIOLOGY, GAINESVILLE, FLA. Fetal and neonatal pulmonary circulation (goats).

R01HL-10BB0-13 (HEM) DUKES, PETER P, 4650 SUNSET BOULEVARO, LOS ANGELES, CALIF. Purification of human erythropoietin for research use.

R01HL-10BB1-13 (CVB) ZWEIFACH, BENJAMIN W, UNIV OF CALIFORNIA, SAN OIEGO, AMES-BIOENGINEERING, M-005, LA JOLLA, CALIF. Structure and function of microcirculation (hamsters, rats, cats, dogs).

R01HL-10894-12 (GMA) MOSBACH, ERWIN H, PUBLIC HEALTH RES INSTITUTE, 455 FIRST AVENUE, NEW YORK, N Y. Intestinal bacteria and steroid metabolism (human, guinea pigs, rabbits, rats).

R01HL-10B97-12 (CVA) DE MELLO, WALMOR C, MEOICAL SCIENCES CAMPUS, G P O BOX 5067, SAN JUAN, P R. Effects ot hormones on cardiac electrogenesis (rabbits, guinea pigs, dogs).

R01HL-10914-10 (GMB) PORUSH, JEROME G, BROOKOALE HOSPITAL MEO CTR, BROOKOALE PLAZA & LINOEN BLVO , BROOKLYN, N Y. Renal sodium transport in experimental aldosteronism (dogs).

R01HL-10933-13 (MET) ZILVERSMIT, DONALO B, CORNELL UNIVERSITY, 202 SAVAGE HALL, ITHACA, N Y. Fat metabolism and atherosclerosis (rabbits, cattle, human, rats).

R01HL-10940-13 (MET) ZILVERSMIT, DONALD B, CORNELL UNIVERSITY, 202 SAVAGE HALL, ITHACA, N Y. Lipid transport (rabbits, cattle, chickens).

R01HL-10942-09 (CVA) SIMPSON, FREDERIC O, WELLCOME MEO RES INST, POST OFFICE BOX 913, OUNEOIN, NEW ZEALAND. Study of genetic hypertension in rats.

R01HL-109S1-11 (CVA) LEVY, MATTHEW N, MT SINAI HOSPITAL, 1800 E 105 STREET, CLEVELAND, OHIO. Neural control of the heart (dogs, rats).

R01HL-10980-11 (PTHA) SPARGO, BENJAMIN H, UNIVERSITY OF CHICAGO, 950 EAST 59TH STREET, CHICAGO, ILL. Ultrastructural renal pathology (human, rats).

R01HL-11046-12 (CV8) SCHAMBELAN, MORRIS, SAN FRANCISCO GENERAL HOSPITAL, 1001 POTRERO AVENUE, SAN FRANCISCO, CALIF. Renin, angiotensin, steroids, ions and blood pressure (human, sheep, rabbits).

R01HL-11119-17 (8IO) MARGOLIASH, EMANUEL, NORTHWESTERN UNIVERSITY, BIOCHEM & MOLECULAR BIO DEPT, EVANSTON, ILL. Amino acid analyzer for biochemical research.

R01HL-11152-12 (CV8) SOBIN, SIDNEY S, 1200 NORTH STATE STREET, BOX 1800, LOS ANGELES, CALIF. Vascular physiology (human, cats, dogs).

R01HL-11153-12 (PHY) FRASHER, WALLACE G, JR, UNIV OF SOUTHERN CALIFORNIA, 1200 NORTH STATE ST, BOX 1800 , LOS ANGELES, CALIF. Quantitation of flow and solute flux in microvessels (cats, rats).

R01HL-11154-12 (HEM) GREENWALT, TIBOR J, AMERICAN NATIONAL RED CROSS, 1730 E STREET, N W, WASHINGTON, D C. Blood group antigens and antibodies (human).

R01HL-11172-12 (HEM) KLINE, DANIEL L, UNIVERSITY OF CINCINNATI, EDEN AND BETHESDA AVENUES, CINCINNATI, OHIO. Physiology and biochemistry of fibrinolytic enzymes (human, animals).

R01HL-11289-12 (CVA) SHARMA, M G, PENNSYLVANIA STATE UNIVERSITY, 224A HAMMOND BUILDING, UNIVERSITY PARK, PA. Analysis of stress in pulsatile dynamics.

P01HL-11307-12 (HEPA) SPACH, MADISON S, DUKE MEDICAL CENTER, BOX 3090, DURHAM, N C. Biophysical studies in pediatric cardiology.

P01HL-11307-12 0002 (HEPA) SPACH, MADISON S. Biophysical studies in pediatric cardiology--Cardiac extracellular electrophysiology (human, dog, chimpanzee).

P01HL-11307-12 0003 (HEPA) JOHNSON, E A. Biophysical studies in pediatric cardiology--Cellular biophysics (animals).

P01HL-11307-12 9001 (HEPA) GALLIE, THOMAS M. Biophysical studies in pediatric cardiology--Core support--computer science.

P01HL-11307-12 9002 (HEPA) PILKINGTON, THEO C. Biophysical studies in pediatric cardiology--Biomedical engineering.

P01HL-11310-12 (HEPA) JAMES, THOMAS N, UNIVERSITY OF ALABAMA, UNIVERSITY STATION, BIRMINGHAM, ALA. Mechanisms of cardiovascular disease.

P01HL-11310-12 0053 (HEPA) KOUCHOUKOS, NICHOLAS T. Mechanisms of cardiovascular disease--Ventricular pressure-volume after cardiopulmonary bypass (dogs).

P01HL-11310-12 0054 (HEPA) BLACKSTONE, EUGENE H. Mechanisms of cardiovascular disease--Mathematical model of ventricular pressure-volume (human, dogs).

P01HL-11310-12 0055 (HEPA) KOUCHOUKOS, NICHOLAS T. Mechanisms of cardiovascular disease--Ventricular pressure-volume after intracardiac surgery (human).

P01HL-11310-12 0056 (HEPA) KIRKLIN, JOHN W. Mechanisms of cardiovascular disease--Cardiac output response to blood pressure reduction in infants (human).

P01HL-11310-12 0057 (HEPA) KOUCHOUKOS, NICHOLAS T. Mechanisms of cardiovascular disease--Blood pressure reduction after heart surgery in adults (human).

P01HL-11310-12 0058 (HEPA) SHEPPARD, LOUIS C. Mechanisms of cardiovascular disease--Dynamic response to vasodilating agents postoperatively (human).

P01HL-11310-12 0059 (HEPA) KIRKLIN, JOHN W. Mechanisms of cardiovascular disease--Contractility--Acute response to digoxin after heart surgery (children).

P01HL-11310-12 0060 (HEPA) BLACKSTONE, EUGENE H. Mechanisms of cardiovascular disease--Effect of left atrium on the circulation--Simulation.

P01HL-11310-12 0061 (HEPA) BLACKSTONE, EUGENE H. Mechanisms of cardiovascular disease--Computer simulation of transposition of great arteries in infants.

P01HL-11310-12 0062 (HEPA) DIGERNESS, STANLEY B. Mechanisms of cardiovascular disease--Myocardial depressant factor in postoperative cardiac dysfunction (human, dogs).

P01HL-11310-12 0063 (HEPA) ARCHIE, JOSEPH P. Mechanisms of cardiovascular disease--Myocardial function, metabolism and cellular integrity after heart surgery (dogs).

P01HL-11310-12 0064 (HEPA) KOUCHOUKOS, NICHOLAS T. Mechanisms of cardiovascular disease--Extracardiac anatomical correction of transposition of great arteries (puppies).

P01HL-11310-12 0065 (HEPA) SHEPPARD, LOUIS C. Mechanisms of cardiovascular disease--Algorithms for arterial pressure by automatic vasoactive agents control (human).

P01HL-11310-12 0066 (HEPA) SHEPPARD, LOUIS C. Mechanisms of cardiovascular disease--Measurement of cardiac output by thermodilution (children).

P01HL-11310-12 0067 (HEPA) KIRKLIN, JOHN W. Mechanisms of cardiovascular disease--Cardiac performance with measured homodynamic variables (human).

P01HL-11310-12 0068 (HEPA) BLACKSTONE, EUGENE H. Mechanisms of cardiovascular disease--Pharmacological intervention and myocarcial oxygen consuption (human, dogs).

P01HL-11310-12 0069 (HEPA) BLACKSTONE, EUGENE H. Mechanisms of cardiovascular disease--Factors affecting mortality and morbidity after heart surgery (human).

P01HL-11310-12 0070 (HEPA) KIRKLIN, JOHN W. Mechanisms of cardiovascular disease--Factors affecting long-term mortality and morbidity after heart surgery (human).

P01HL-11310-12 0071 (HEPA) WALDO, ALBERT L. Mechanisms of cardiovascular disease--Electrophysiological studies of atrial flutter (human).

P01HL-11310-12 0072 (HEPA) WALDO, ALBERT L. Mechanisms of cardiovascular disease--Electrophysiological studies of atrial tachycardia with block (human).

P01HL-11310-12 0073 (HEPA) WALDO, ALBERT L. Mechanisms of cardiovascular disease--Electrophysiological study of atrial fibrillation (human).

P01HL-11310-12 0074 (HEPA) WALDO, ALBERT L. Mechanisms of cardiovascular disease--Electrophysiological studies of paraxysmal atrial tachycardia (human).

P01HL-11310-12 0075 (HEPA) WALDO, ALBERT L. Mechanisms of cardiovascular disease--Bipolar atrial electrograms from Bachmann's bundle (dogs).

P01HL-11310-12 0076 (HEPA) WALDO, ALBERT L. Mechanisms of cardiovascular disease--Tratment of depressed cardiac output following heart surgery (children, puppies).

P01HL-11310-12 0077 (HEPA) MACLEAN, WILLIAM A H. Mechanisms of cardiovascular disease--Abnormalities of rhythm and conduction following heart surgery (human).

P01HL-11310-12 0078 (HEPA) WALDO, ALBERT L. Mechanisms of cardiovascular disease--Ventricular arrhythmias in acute myocardial infarction (dogs).

P01HL-11310-12 0079 (HEPA) URTHALER, FERDINAND. Mechanisms of cardiovascular disease--Electrophysiological studies of complete heart block (human).

P01HL-11310-12 0080 (HEPA) RACKLEY, CHARLES E. Mechanisms of cardiovascular disease--Metabolism of the hypertrophied myocardium (human).

P01HL-11310-12 0081 (HEPA) HOOD, WILLIAM P. Mechanisms of cardiovascular disease--Analysis of regional left ventricular function (human).

P01HL-11310-12 0082 (HEPA) COGHAN, H CECIL. Mechanisms of cardiovascular disease--Myocardial function in adult congenital heart disease (human).

P01HL-11310-12 0083 (HEPA) BAXLEY, WILLIAM A. Mechanisms of cardiovascular disease--Ventricular volume and hemodynamics in adult congenital heart disease.

P01HL-11310-12 0084 (HEPA) BAXLEY, WILLIAM A. Mechanisms of cardiovascular disease--Evaluation of cardiac function in chronic renal failure (human).

P01HL-11310-12 0085 (HEPA) HEFNER, LLOYD L. Mechanisms of cardiovascular disease--Mechanics of isolated cardiac muscle (animals).

P01HL-11310-12 0086 (HEPA) HEFNER, LLOYD L. Mechanisms of cardiovascular disease--Mechanics of the intact left ventricle (dogs).

P01HL-11310-12 0087 (HEPA) JAMES, THOMAS N. Mechanisms of cardiovascular disease--Electrophysiology and electropharmacology of the heart (dogs).

P01HL-11310-12 0089 (HEPA) JAMES, THOMAS N. Mechanisms of cardiovascular disease--Structure and function in myocardial contraction (dogs).

P01HL-11310-12 0090 (HEPA) JAMES, THOMAS N. Mechanisms of cardiovascular disease--Clinicopathological cardiovascular correlation (human, animals).

P01HL-11310-12 0091 (HEPA) EDDLEMAN, E E. Mechanisms of cardiovascular disease--Noninvasive techniques in cardiovascular diagnosis (human).

P01HL-11310-12 0092 (HEPA) SHEFFIELD, THOMAS L. Mechanisms of cardiovascular disease--Exercise electrophysiology (human).

P01HL-11310-12 0093 (HEPA) HOLT, JOHN H. Mechanisms of cardiovascular disease--Multiple dipole electrocardiogram project (human, dogs).

P01HL-11310-12 0094 (HEPA) KLIP, WILLIAM. Mechanisms of cardiovascular disease--Physics of pulsatile fluid flow (dogs).

P01HL-11310-12 0095 (HEPA) CONRAD, MARCEL E. Mechanisms of cardiovascular disease--Blood and transfusion disorders (human, rats, monkeys).

P01HL-11310-12 0096 (HEPA) STROUD, ROBERT M. Mechanisms of cardiovascular disease--Complement chemistry and biology (human, rabbits).

P01HL-11310-12 0097 (HEPA) ACTON, RONALD T. Mechanisms of cardiovascular disease--Structural-functional relationships of neuronal differential alloantigens (mice).

P01HL-11310-12 0098 (HEPA) BENNETT, CLAUDE. Mechanisms of cardiovascular disease--Protein chemistry of thy-1 and related synaptosomal proteins (mice).

P01HL-11310-12 0099 (HEPA) NIEDERMIER, WILLIAM. Mechanisms of cardiovascular disease--Carbohydrate chemistry of thy-1 and related synaptosomal proteins.

P01HL-11310-12 0100 (HEPA) BISHOP, DAVID H L. Mechanisms of cardiovascular disease--Structure and replication of arenavirus and Bunyamweraviruses.

P01HL-11310-12 0101 (HEPA) URRY, DAN W. Mechanisms of cardiovascular disease--Molecular pathogenesis of vascular disease.

P01HL-11310-12 0102 (HEPA) BRADLEY, RONALD J. Mechanisms of cardiovascular disease--Cardiac membrane and ion mobility (dogs).

P01HL-11310-12 0103 (HEPA) RODEN, LENNART. Mechanisms of cardiovascular disease--Heparin--Metabolism and function.

P01HL-11310-12 0104 (HEPA) BAKER, JOHN. Mechanisms of cardiovascular disease--Structure of connective tissue proteoglycans (rabbits).

P01HL-11310-12 0105 (HEPA) SCHUTZBACH, JOHN. Mechanisms of cardiovascular disease--Biosynthesis of mammalian glycoproteins (rabbits).

P01HL-11310-12 0106 (HEPA) MILLER, EDWARD. Mechanisms of cardiovascular disease--Biochemical characterization of the collagens in vascular tissue (catte).

P01HL-11310-12 9001 (HEPA) JAMES, THOMAS N. Mechanisms of cardiovascular disease--Core support-hospital beds.

P01HL-11310-12 9002 (HEPA) JAMES, THOMAS N. Mechanisms of cardiovascular disease--Core support-centralized electronic laboratory.

P01HL-11310-12 9003 (HEPA) MACY, JOSIAH, JR. Mechanisms of cardiovascular disease--Core support-biophysical sciences.

P01HL-11310-12 9004 (HEPA) MACY, JOSIAH, JR. Mechanisms of cardiovascular disease--Core support-computer facilities.

P01HL-11351-12 (HEPA) BRADY, ALLAN J, UNIVERSITY OF CALIFORNIA, DEPARTMENT OF PHYSIOLOGY, LOS ANGELES, CALIF. Cellular and molecular mechanisms of myocardial function.

P01HL-11351-12 0001 (HEPA) LANGER, GLENN A. Cellular and molecular mechanisms of myocardial function--Ionic control of myocardial contractility (animals).

P01HL-11351-12 0002 (HEPA) LANGER, GLENN A. Cellular and molecular mechanisms of myocardial function--Effects of hypoxia and ischemia on ionic exchange (rats, rabbits).

P01HL-11351-12 0003 (HEPA) BRADY, ALLAN J. Cellular and molecular mechanisms of myocardial function--Mechanical and electrical properties of cardiac muscle (rabbits).

P01HL-11351-12 0004 (HEPA) MOMMAERTS, WILFRIED F H M. Cellular and molecular mechanisms of myocardial function--Molecular mechanisms of contractile function and differentiation (animals).

P01HL-11351-12 0005 (HEPA) BRADY, ALLAN J. Cellular and molecular mechanisms of myocardial function--Electrophysiology of cardiac muscle (rats).

P01HL-11351-12 0006 (HEPA) HOMSHER, EARL. Cellular and molecular mechanisms of myocardial function-Molecular physiology and energetics of muscle (frogs)

P01HL-11351-12 0009 (HEPA) LANGER, GLENN A. Cellular and molecular mechanisms of myocardial function-Myocardial membrane surface coat (rats, rabbits).

P01HL-11351-12 0010 (HEPA) LANGER, GLENN A. Cellular and molecular mechanisms of myocardial function-Basic ionic exchange studies (rats).

P01HL-11351-12 0011 (HEPA) LANGER, GLENN A. Cellular and molecular mechanisms of myocardial function--Comparative contractile tissue studies (animals).

P01HL-11351-12 0013 (HEPA) SANBORN, WARREN G. Cellular and molecular mechanisms of myocardial function--Ion exchange in the perfused septum high-resolution technique (rabbits, rats).

P01HL-11351-12 0015 (HEPA) SHINE, KENNETH I. Cellular and molecular mechanisms of myocardial function--Effects of hypoxia and ischemia on ion exchange and heart function (rabbits).

P01HL-11351-12 001B (HEPA) TORMEY, JOHN MCO. Cellular and molecular mechanisms of myocardial function--Quantitative focalization of electrolytes in cardiac tissue.

P01HL-11351-12 0019 (HEPA) BRAOY, ALLAN J. Cellular and molecular mechanisms of myocardial function--Mechano-chemical kinetics of small perturbations.

P01HL-11351-12 0020 (HEPA) HEATH, MILAN J. Cellular and molecular mechanisms of myocardial function--Electrophysiology of cultured heart cells.

P01HL-11351-12 0021 (HEPA) HOMSHER, EARL E. Cellular and molecular mechanisms of myocardial function--Muscle energetics (frogs).

P01HL-11351-12 0022 (HEPA) KEAN, CHARLES J C. Cellular and molecular mechanisms of myocardial function--Energetic sequelae of shortening--Myothermal and biochemical (frogs).

P01HL-11351-12 0023 (HEPA) KEAN, CHARLES J C. Cellular and molecular mechanisms of myocardial function--Energetics of mammalian muscle (rats).

P01HL-11351-12 0024 (HEPA) HOMSHER, EARL E. Cellular and molecular mechanisms of myocardial function--Steady state and transient kinetics of frog myosin, S-1, and ATPase.

R01HL-11372-0B (TEC) LAUBACH, CHARLES A, JR, GEISINGER MEOICAL CENTER, INST OF MED EOUC & RESEARCH, OANVILLE, PA. Cooperative study of drugs and coronary heart disease (men).

P01HL-11414-11 (HLBB) SALZMAN, EOWIN W, BETH ISRAEL HOSPITAL, 330 BROOKLINE AVENUE, BOSTON, MASS. Thrombosis and atherosclerosis program.

P01HL-11414-11 0004 (HLBB) SALZMAN, EOWIN W. Thrombosis and atherosclerosis program--Platelet function and nonthrombogenic surfaces (human).

P01HL-11414-11 0014 (HLBB) SPARK, RICHARD F. Thrombosis and atherosclerosis program--Role of adrenal in human essential hypertension.

P01HL-11414-11 0024 (HLBB) PAULIN, SVEN. Thrombosis and atherosclerosis program--Radiographic demonstration of small coronary arteries (human, dogs).

P01HL-11414-11 0027 (HLBB) SIMON, MORRIS. Thrombosis and atherosclerosis program--Thermal memory wire filter to prevent pulmonary embolism (human, dogs).

P01HL-11414-11 002B (HLBB) LANOSBERG, LEWIS. Thrombosis and atherosclerosis program--Catecholamine metabolism in the lung (rat).

P01HL-11414-11 0033 (HLBB) FRIEDMAN, PAUL A. Thrombosis and atherosclerosis program--Human coumarin-induced prothrombin.

P01HL-11414-11 0034 (HLBB) MCMAHON, THOMAS A. Thrombosis and atherosclerosis program--Servo simulation--Experimental myocardial infarction (dogs).

P01HL-11414-11 0035 (HLBB) FRIEDMAN, PAUL A. Thrombosis and atherosclerosis program--Mechanism of action of vitamin K (rats).

P01HL-11414-11 0036 (HLBB) FREIMAN, DAVID G. Thrombosis and atherosclerosis program--Electron microscopy core facility.

P01HL-11414-11 0037 (HLBB) STEMERMAN, MICHAEL B. Thrombosis and atherosclerosis program--Vascular intimal injury and healing (rabbits, rats).

R01HL-1141B-09 (MCHB) ALLCOCK, HARRY R, PENNSYLVANIA STATE UNIVERSITY, 152 OAVEY BUILOING, UNIVERSITY PARK, PA. Polydiaminophosphazenes.

R01HL-11511-10 (BMT) LISTOWSKY, IRVING, ALBERT EINSTEIN COLLEGE OF MEO, 1300 MORRIS PARK AVENUE, BRONX, N Y. Structure of ferritin and its role in iron metabolism (horse, rats, human).

R01HL-11551-11 (PC) FLORINI, JAMES R, SYRACUSE UNIVERSITY, 209 LYMAN HALL, SYRACUSE, N Y. RNA and protein synthesis in repair of heart injury (mice, rats).

R01HL-11614-11 (NTN) O'OELL, BOYD L, UNIVERSITY OF MISSOURI, 322 CHEMISTRY BLOG, COLUMBIA, MO. Trace elements in nutrition (chickens, rats, human).

P01HL-1167B-11 (HEPA) GUYTON, ARTHUR C, UNIVERSITY OF MISSISSIPPI, 2500 NORTH STATE STREET, JACKSON, MISS. Cardiovascular dynamics and their control.

P01HL-1167B-11 0001 (HEPA) MANNING, R DAVIS, JR. Cardiovascular dynamics and their control--Body fluid volumes in the genesis of hypertension (rats, dogs).

P01HL-1167B-11 0009 (HEPA) MILHORN, HOWARO T. Cardiovascular dynamics and their control--Control of respiration (cat, human).

P01HL-1167B-11 0017 (HEPA) GUYTON, ARTHUR C. Cardiovascular dynamics and their control--Overall control of circulation--Mathematical analyses.

P01HL-1167B-11 0020 (HEPA) PARKER, JAMES C. Cardiovascular dynamics and their control--Circulatory and pulmonary fluid dynamics during pulmonary edema.

P01HL-1167B-11 0027 (HEPA) COWLEY, ALLEN W, JR. Cardiovascular dynamics and their control--Vasopressin and thirst in control of body fluid volumes and osmolality (dogs).

P01HL-1167B-11 0031 (HEPA) NORMAN, ROGER A, JR. Cardiovascular dynamics and their control--Hypertension caused by stimulation of renal sympathetic nerves (dogs).

P01HL-1167B-11 0034 (HEPA) OECLUE, JAMES W. Cardiovascular dynamics and their control--Renal function curves in intact dogs.

P01HL-1167B-11 0035 (HEPA) BRACE, ROBERT A. Cardiovascular dynamics and their control--Lymph flow rate and protein concentration (dogs).

P01HL-1167B-11 0036 (HEPA) TAYLOR, AUBREY E. Cardiovascular dynamics and their control-Pulmonary capillary dynamics and edema (dogs)

P01HL-1167B-11 0039 (HEPA) TAYLOR, AUBREY E. Cardiovascular dynamics and their control-Capillary and interstitial fluid dynamics of the intestine (cats)

P01HL-1167B-11 0040 (HEPA) YOUNG, OAVID B. Cardiovascular dynamics and their control-Control of plasma potassium concentration (dogs)

P01HL-1167B-11 0043 (HEPA) CROWELL, JACK W. Cardiovascular dynamics and their control-Basic mechanisms of circulatory shock (dog)

P01HL-1167B-11 0046 (HEPA) MCCAA, ROBERT E. Cardiovascular dynamics and their control--Regulation of aldosterone secretion and related factors (dogs).

P01HL-1167B-11 0047 (HEPA) MCCAA, ROBERT E. Cardiovascular dynamics and their control--Unidentified pituitary factor in regulation of aldosterone secretion (rats).

P01HL-1167B-11 0051 (HEPA) JACKSON, THOMAS E. Cardiovascular dynamics and their control--Transient glomerular filtration dynamics (dogs)

P01HL-1167B-11 0057 (HEPA) BENGIS, ROY G. Cardiovascular dynamics and their control-Return of urine to circulation using cystico-caval shunt (dogs).

P01HL-1167B-11 005B (HEPA) COLEMAN, THOMAS G. Cardiovascular dynamics and their control--Overall control of the circulation--Computer analysis.

P01HL-1167B-11 0059 (HEPA) MANNING, R OAVIS, JR. Cardiovascular dynamics and their control--Basic hemodynamics (dogs, rats).

P01HL-1167B-11 0060 (HEPA) NORMAN, ROGER A, JR. Cardiovascular dynamics and their control--Salt and water balance in one kidney Goldblatt hypertension (rat).

P01HL-1167B-11 0063 (HEPA) HALL, JOHN E. Cardiovascular dynamics and their control--Renin-angiotensin system--Control of renal hemodynamics, electrolyte excretion.

P01HL-1167B-11 0064 (HEPA) HALL, JOHN E. Cardiovascular dynamics and their control--Renal medulla--Control of renal hemodynamics, electrolyte excretion (dogs).

P01HL-1167B-11 0065 (HEPA) YOUNG, OAVIO B. Cardiovascular dynamics and their control--Body fluid volumes in the genesis of hypertension (dogs).

P01HL-1167B-11 0066 (HEPA) LOHMEIER, THOMAS E. Cardiovascular dynamics and their control--Closed-loop analysis of the aldosterone control system (dogs).

P01HL-1167B-11 0067 (HEPA) LOHMEIER, THOMAS E. Cardiovascular dynamics and their control--Angiotension II, sodium excretion and renal hemodynamics (dogs).

P01HL-1167B-11 006B (HEPA) COLEMAN, THOMAS G. Cardiovascular dynamics and their control--Basic hemodynamics (rats, dogs).

P01HL-1167B-11 0069 (HEPA) COWLEY, ALLEN W, JR. Cardiovascular dynamics and their control--Nervous control of the cirulation (dogs).

P01HL-1167B-11 0070 (HEPA) BRACE, ROBERT A. Cardiovascular dynamics and their control--Interaction of the four Starling forces (dogs).

P01HL-1167B-11 9001 (HEPA) COLEMAN, THOMAS G. Cardiovascular dynamics and their control--Core--Computer services.

P01HL-1167B-11 9002 (HEPA) COWLEY, ALLEN W, JR. Cardiovascular dynamics and their control--Core--Radioimmunoassay and chemical laboratory.

P01HL-1167B-11 9003 (HEPA) GUYTON, ARTHUR C. Cardiovascular dynamics and their control--Core--Instrumentation and machine shop.

R01HL-116B6-09 (HEM) TAKEDA, YASUHIKO, UNIVERSITY OF COLORAOO, 4200 EAST NINTH AVENUE, OENVER, COLO. Oynamics of thrombus formation and dissolution (human, chickens).

R01HL-11717-09 (CVA) YOUNG, OONALO F, IOWA STATE UNIVERSITY, 207 LABORATORY OF MECHANICS, AMES, IOWA. Effect of stenotic obstructions on flow in arteries (dogs).

R01HL-11775-11 (HEM) HARKER, LAURENCE A, HARBORVIEW MEOICAL CENTER, 325 9TH AVENUE, SEATTLE, WASH. Platelet mechanisms in disease (human, primates).

R01HL-11B02-10 (SGYA) HYMAN, ALBERT L, TULANE MEDICAL SCHOOL, 1430 TULANE AVENUE, NEW ORLEANS, LA. Cardiovascular surgical research (dogs, sheep, swine, cats, monkeys).

R01HL-11B22-10 (BBCB) HASCHEMEYER, RUDY H, CORNELL UNIVERSITY, 1300 YORK AVENUE, NEW YORK, N Y. Biophysical studies of macromolecular interactions (microorganism, human).

R01HL-11B76-11 (CVB) GRIGGS, OOUGLAS M, JR, UNIVERSITY OF MISSOURI, SCHOOL OF MEOICINE, COLUMBIA, MO. Regional myocardial blood flow and metabolism (dogs, swine).

R01HL-11BBO-10 (HEM) WHITE, JAMES G, UNIVERSITY OF MINNESOTA, BOX 479 MAYO MEMORIAL BLOG, MINNEAPOLIS, MINN. Physiology and pathology of blood platelets (human, dogs).

R01HL-11B97-11 (PTHA) CORNWELL, OAVID G, OHIO STATE UNIVERSITY, 333 WEST 10TH AVENUE, COLUMBUS, OHIO. Pathogenesis of experimental atherosclerosis (rabbits, guinea pigs).

R01HL-11901-12 (SGYB) BUCHWALO, HENRY, UNIV OF MINNESOTA HOSPITALS, BOX 290, MINNEAPOLIS, MINN. Effects of metabolic surgery on the hyperlipidemias.

R01HL-11901-12 0001 (SGYB) BUCHWALO, HENRY. Effects of metabolic surgery on the hyperlipidemias--Partial ileal bypass (human).

R01HL-11901-12 0004 (SGYB) BUCHWALD, HENRY. Effects of metabolic surgery on the hyperlipidemias--Ileal bypass--Cholesterol dynamics studies (rats, rabbits, dogs).

R01HL-11901-12 0006 (SGYB) BUCHWALO, HENRY. Effects of metabolic surgery on the hyperlipidemias--Orug therapy with ileal bypass (rabbits).

R01HL-11901-12 0009 (SGYB) BUCHWALD, HENRY. Effects of metabolic surgery on the hyperlipidemias--Cholesterol cord blood and family management program.

R01HL-11901-12 0012 (SGYB) BUCHWALD, HENRY. Effects of metabolic surgery on the hyperlipidemias--Ileal bypass--Animal atherosclerosis implications (pigeons, dogs, rabbits).

R01HL-11901-12 0013 (SGYB) BUCHWALO, HENRY. Effects of metabolic surgery on the hyperlipidemias--Human cholesterol and bile acids dynamics--Ileal bypass.

R01HL-11901-12 0014 (SGYB) BUCHWALD, HENRY. Effects of metabolic surgery on the hyperlipidemias--Effect of bypass on gastrin levels (dogs, human).

R01HL-11901-12 0015 (SGYB) BUCHWALO, HENRY. Effects of metabolic surgery on the hyperlipidemias--Portacaval shunt for cholesterol reduction (dogs, rabbits).

R01HL-11901-12 0017 (SGYB) 8UCHWALD, HENRY. Effects of metabolic surgery on the hyperlipidemias--Membrane permeability, blood viscosity, oxygen uptake--Rheology studies (rabbits).

R01HL-11901-12 0018 (SGYB) BUCHWALO, HENRY. Effects of metabolic surgery on the hyperlipidemias--Jejuno-ileal bypass--Postoperative complications (human).

R01HL-11901-12 0019 (SGYB) 8UCHWALO, HENRY. Effects of metabolic surgery on the hyperlipidemias--Cholesterol, bileacids, lipoproteins in obese humans.

R01HL-11901-12 0020 (SGYB) 8UCHWALO, HENRY. Effects of metabolic surgery on the hyperlipidemias--Jejuno-ileal bypass--Endogenous animal model of obesity (rats).

R01HL-11906-11 (CVA) WHALEN, WILLIAM J, ST VINCENT CHARITY HOSPITAL, 2351 EAST 22ND STREET, CLEVELAND, OHIO. Comparative study of heart function (cats, rats, hedgehogs, squirrels).

R01HL-11907-08 (CVA) WASSERMAN, KARLMAN, HARBOR GENERAL HOSPITAL, 1D00 WEST CARSON STREET, TORRANCE, CALIF. Mechanisms of physiological responses to exercise (human, dogs).

R01HL-11919-08 (SGYA) WILCOX, BENSON R, UNIVERSITY OF NORTH CAROLINA, DEPARTMENT OF SURGERY, CHAPEL HILL, N C. Pulmonary circulation in surgical heart disease (human, dogs).

R01HL-11945-10 (SGYB) GALLETTI, PIERRE M, BROWN UNIVERSITY, BOX G OIV OF BIOL & MED SCIS, PROVIDENCE, R I. Synthesis of artificial lung and kidney systems (sheep, mice, swine).

R01HL-11963-10 (PTHA) SANOBERG, LAWRENCE B, UNIVERSITY OF UTAH, COLLEGE OF MEDICINE, SALT LAKE CITY, UTAH. Biochemistry of blood vessel formation and disease (swine).

R01HL-120B3-11 (CVA) ATA8EK, BULENT H, CATHOLIC UNIVERSITY, OEPT OF MEXHANICAL ENGINEERING, WASHINGTON, O C. Flow field in aorta and its major branches (dogs, phantom models).

R01HL-120B5-10 (MET) EATON, R PHILIP, UNIVERSITY OF NEW MEXICO, DEPT OF MEDICINE, ALBUOUEROUE, N MEX. Lipoprotein-carbohydrate metabolism (human, rats).

R01HL-1213B-08 (NTN) JOHNSON, B CONNOR, OKLAHOMA MEDICAL RESEARCH FDN, 825 NORTHEAST 13TH STREET, OKLAHOMA CITY, OKLA. Nutritional regulation of enzyme activity (rats, human).

P01HL-12157-11 (HEPA) JOHNSON, EOWARD A, DUKE UNIVERSITY, BOX 3709, DURHAM, N C. Functions and mechanisms of cell membrane ion transport.

P01HL-12157-11 0033 (HEPA) LAUF, P K. Functions and mechanisms of cell membrane ion transport--Immunology aspects of active Na-K transport in sheep red cell (also human, mice).

PC1HL-12157-11 0037 (HEPA) JOHNSON, E A. Functions and mechanisms of cell membrane ion transport--Developing structure of heart cells in tissue culture.

P01HL-12157-11 0038 (HEPA) SIMON, S A. Functions and mechanisms of cell membrane ion transport--Mechanisms and interactions of gases and ions with bilayer membranes (human).

P01HL-12157-11 0049 (HEPA) JOHNSON, E A. Functions and mechanisms of cell membrane ion transport--Ouabain-insensitive cation transport in duck red cells.

P01HL-12157-11 0051 (HEPA) MCMANUS, T J. Functions and mechanisms of cell membrane ion transport--Electron transport in the red cell membrane (human, guinea pigs).

P01HL-12157-11 0052 (HEPA) JOHNSON, E A. Functions and mechanisms of cell membrane ion transport--Active electrical properties of the synthetic strand.

P01HL-12157-11 0054 (HEPA) JOHNSON, E A. Functions and mechanisms of cell membrane ion transport--Simulation of electrogenic ion transport in cardiac muscle.

P01HL-12157-11 0055 (HEPA) LIEBERMAN, M. Functions and mechanisms of cell membrane ion transport--Growth and development of synthetic strand heart cells in culture (chick embryo).

P01HL-12157-11 0056 (HEPA) HORRES, C R. Functions and mechanisms of cell membrane ion transport--Isotopic fluxes in synthetic strands of heart cells (chick embryo).

P01HL-12157-11 0057 (HEPA) LIEBERMAN, M. Functions and mechanisms of cell membrane ion transport--Electrophysiological investigations of synthetic strands of heart muscles (rats).

P01HL-12157-11 005B (HEPA) JOHNSON, E A. Functions and mechanisms of cell membrane ion transport--Ionic and osmotic regulation in toadfish--A euryhaline aglomerular teleost.

P01HL-12157-11 0060 (HEPA) JOHNSON, E A. Functions and mechanisms of cell membrane ion transport--Ion transport and electrical properties of giant-celled aiga.

R01HL-12174-11 (PHY) HLASTALA, MICHAEL P, UNIVERSITY OF WASHINGTON, MEOICINE DEPARTMENT, SEATTLE, WASH. Ventilation/perfusion distribution in the lung (human, mammals).

R01HL-121B6-09 (PHRA) BLINKS, JOHN R, MAYO FOUNDATION, 2DD FIRST STREET SOUTHWEST, ROCHESTER, MINN. Calcium transients in striated muscle and other cells (mammals, frogs).

R01HL-12256-15 (BBCB) STEINHAROT, JACINTO, GEORGETOWN UNIVERSITY, 37TH & O STREETS, N W, WASHINGTON, O C. Polymerization of sickle-cell hemoglobin (human).

R01HL-12307-08 (CVB) RASHKINO, WILLIAM J, ONE CHILOREN'S CENTER, 34TH ST & CIVIC CENTER BLVD, PHILAOELPHIA, PA. Non-surgical treatment of congenital heart disease (human, dogs).

R01HL-12322-10 (SGYA) OAGGETT, WILLARO M, MASSACHUSETTS GENERAL HOSPITAL, 32 FRUIT STREET, BOSTON, MASS. Extrinsic factors influencing myocardial performance (dogs, swine).

P01HL-12373-10 (HEP) ROSS, JOHN, JR, UNIV OF CALIFORNIA, SAN OIEGO, DEPT OF MEDICINE M 013, 6A JOLLA, CALIF. Cardiopulmonary physiology and pathophysiology.

P01HL-12373-10 0001 (HEP) COVELL, JAMES W. Cardiopulmonary physiology and pathophysiology--Mechanics of myocardial contraction (dogs, rats, swine).

P01HL-12373-10 0002 (HEP) ROSS, JOHN, JR. Cardiopulmonary physiology and pathophysiology--Oeterminants of performance of the whole heart (dogs).

P01HL-12373-10 0003 (HEP) PETERSON, KIRK L. Cardiopulmonary physiology and pathophysiology--Myocardial function in man.

P01HL-12373-10 0005 (HEP) FRIEOMAN, WILLIAM F. Cardiopulmonary physiology and pathophysiology--Characterization of fetal and neonatal myocardium (human, cats).

P01HL-12373-10 0006 (HEP) STEINBERG, DANIEL. Cardiopulmonary physiology and pathophysiology--Fatty acid metabolism--Regulation, implications (human, mammals, birds).

P01HL-12373-10 0012 (HEP) MAYER, STEVEN E. Cardiopulmonary physiology and pathophysiology--Biochemistry of the sympathetic nervous system (rats, rabbits, pigeons).

P01HL-12373-10 0013 (HEP) KARLINER, JOEL S. Cardiopulmonary physiology and pathophysiology--Effects of cardiovascular drugs on left ventricular function (dogs).

P01HL-12373-10 0014 (HEP) COVELL, JAMES W. Cardiopulmonary physiology and pathophysiology--Analog digital computation and simulation facility.

P01HL-12373-10 0015 (HEP) COVELL, JAMES W. Cardiopulmonary physiology and pathophysiology--Cine angiographic-hemodynamic facility.

P01HL-12373-10 0016 (HEP) BLOOR, COLIN M. Cardiopulmonary physiology and pathophysiology--Histology-histochemistry-Gough laboratory.

P01HL-12373-10 0018 (HEP) MAYER, STEVEN E. Cardiopulmonary physiology and pathophysiology--Biochemistry laboratory.

P01HL-12373-10 0019 (HEP) FRANKLIN, DEAN. Cardiopulmonary physiology and pathophysiology--Free ranging animal facility.

P01HL-12373-10 0020 (HEP) PETERSON, KIRK L. Cardiopulmonary physiology and pathophysiology--Hospitalization and patient care.

R01HL-12395-10 (BBCA) SCHAEFER, WILLIAM P, CALIFORNIA INST OF TECHNOLOGY, 1201 EAST CALIFORNIA BLVD, PASAOENA, CALIF. X-ray study of oxygen-carrying cobalt complexes.

R01HL-12399-13 (NTN) GEYER, ROBERT, HARVARO SCHOOL OF PUB HLTH, 665 HUNTINGTON AVENUE, BOSTON, MASS. Specific fatty acids and cholesterol metabolism (gerbils, rats).

R01HL-12415-10 (CVA) 8ISHOP, VERNON S, UNIVERSITY OF TEXAS, 7703 FLOYO CURL ORIVE, SAN ANTONIO, TEX. Evaluation of left ventricular function (dogs, rabbits).

R01HL-12421-10 (CVA) GREGA, GEORGE J, MICHIGAN STATE UNIVERSITY, GILTNER HALL, EAST LANSING, MICH. Pathophysiology of circulatory shock (dogs, baboons).

R01HL-12486-10 (CVA) SOMMER, JOACHIM R, OUKE UNIVERSITY, DEPARTMENT OF PATHOLOGY, OURHAM, N C. Structure-function correlation in the atrium (rabbits).

R01HL-12493-10 (CVA) INTAGLIETTA, MARCOS, UNIV OF CALIFORNIA,, LA JOLLA, CALIF. Bioengineering analysis of microvascular function (cats, rabbits).

R01HL-12494-10 (CVA) FUNG, YUAN-CHENG B, UNIV OF CALIFORNIA, SAN DIEGO, LA JOLLA, CALIF. Continuum mechanics in biophysics (human, animals).

R01HL-12524-10 (BBCA) NOBLE, ROBERT W, VETERANS ADMINISTRATION HOSP, 3495 BAILEY AVENUE, BUFFALO, N Y. Reaction of hemoglobin with ligands and antibodies (human, carp).

R01HL-12526-09 (BBC8) SPIRO, THOMAS G, PRINCETON UNIVERSITY, OEPARTMENT OF CHEMISTRY, PRINCETON, N J. Raman spectra of heme proteins and related molecules.

R01HL-1252B-10 (BBC8) WADE, CHARLES G, UNIVERSITY OF TEXAS, CHEMISTRY DEPARTMENT, AUSTIN, TEX. NMR relaxation of liquid crystal systems.

R01HL-12530-10 (CVA) 8RISCOE, WILLIAM A, CORNELL UNIVERSITY, 1300 YORK AVENUE, NEW YORK, N Y. Emphysema--Respiratory function in disease (human, dogs, rats).

R01HL-12542-07 (TEC) VLAD, PETER, CHILDREN'S HOSPITAL, 219 BRYANT STREET, BUFFALO, N Y. Natural history, congenital heart defects--Joint study (human).

R01HL-12557-09 (PTHA) AL8ERT, ERNEST N, GEORGE WASHINGTON UNIVERSITY, ROSS HALL, ROOM 426, WASHINGTON, O C. Effects of steroids and pregnancy on arteries and veins (guinea pigs).

R01HL-12561-11 (PTHA) CARNES, WILLIAM H, UNIVERSITY OF CALIFORNIA, CENTER FOR HEALTH SCIENCES, LOS ANGELES, CALIF. Cardiovascular studies on copper deficiency (swine).

R01HL-12564-09 (AFY) SMITH, EDWARD J, UNION UNIVERSITY, ALBANY MEOICAL COLLEGE, ALBANY, N Y. Control of respiration and blood gases (human, dog).

R01HL-12576-10 (8IO) KING, TSOO E, S U N Y - AT ALBANY, 1400 WASHINGTON AVENUE, ALBANY, N Y. Bioenergetics apparatus in heart mitochondria.

R01HL-125B5-10 (BIO) HARRISON, JOHN H, UNIVERSITY OF NORTH CAROLINA, DEPARTMENT OF CHEMISTRY, CHAPEL HILL, N C. Structural properties of malate dehydrogenase (swine).

R01HL-12607-10 (CVB) MILNOR, WILLIAM R, JOHNS HOPKINS UNIVERSITY, 725 NORTH WOLFE STREET, BALTIMORE, MD. Dynamics of pulsatile blood flow (human, dogs, rats).

R01HL-12611-10 (CVB) BURGESS, MARY J, UNIVERSITY OF UTAH, INTERNAL MEOICINE OEPARTMENT, SALT LAKE CITY, UTAH. Basic and clinical studies of the ST-T deflection (human, dogs).

R01HL-12614-09 (CV8) HARRIS, PATRICK O, UNIVERSITY OF MISSOURI, RESEARCH PARK, COLUMBIA, MO. Microcirculatory control mechanisms and hypertension (bats, rats).

R01HL-12647-08 (PHRA) LEVIN, JEROME A, MEOICAL COLLEGE OF OHIO, POST OFFICE BOX 6190, TOLEDO, OHIO. Inactivation of norepinephrine in vascular tissue.

R01HL-1264B-09 (PHRA) GITLOW, STANLEY E, MT SINAI SCH OF MED S U N Y, 5TH AVENUE ANO 1DOTH STREET, NEW YORK, N Y. Catecholamine metabolism in hypertensive diseases (human).

R01HL-12650-08 (PTHA) KUHN, CHARLES, WASHINGTON UNIVERSITY, DEPARTMENT OF PATHOLOGY, ST LOUIS, MO. Environmental pathobiology of the lung (hamsters, rats).

R01HL-12677-10 (SGYA) ITSKOVITZ, HAROLO D, MILWAUKEE COUNTY GENERAL HOSP, 870D WEST WISCONSIN AVENUE, MILWAUKEE, WIS. Surgical physiologic studies of isolated kidneys (dogs, rats).

R01HL-12684-09 (CV8) FITZ, ANNETTE E, VETERANS ADMINISTRATION HOSP, IOWA CITY, IOWA. Angiotensin I and converting enzyme in hypertension (human, primates, dogs).

R01HL-12690-09 (CVA) FRONEK, ARNOST, UNIV OF CALIFORNIA, SAN DIEGO, MAIL MD05, LA JOLLA, CALIF. Systemic and local vascular adjustment in shock (monkeys, cats).

R01HL-12711-09 (COM) MIRSKY, ISRAEL, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Mathematical approach to cardiovascular mechanics (human, animals).

R01HL-12715-10 (RAD) THURSTONE, FREORICK L, OUKE UNIVERSITY, BIOMEOICAL ENGINEERING DEPT, OURHAM, N C. Oynamic cardiovascular measurement using ultrasound.

P01HL-12738-10 (HEPA) HOFFMAN, BRIAN F, COLUMBIA UNIVERSITY, 630 WEST 168TH, NEW YORK, N Y Physiologic pharmacology and its clinical applications.

P01HL-12738-10 0001 (HEPA) GIARDINA, ELSA GRACE V. Physiologic pharmacology and its clinical applications--Clinical pharmacology of cardioactive drugs (human).

P01HL-1273B-10 003S (HEPA) REIFFEL, J A. Physiologic pharmacology and its clinical applications--Function and dysfunction of the sinoatrial node (human).

P01HL-1273B-10 0042 (HEPA) WANG, S C. Physiologic pharmacology and its clinical applications--Centrogenic cardiac arrhythmias (cats).

P01HL-1273B-10 0044 (HEPA) WELO, F M. Physiologic pharmacology and its clinical applications--Cardioactive drugs and electrophysiological properties of cardiac cells (sheep).

P01HL-1273B-10 0065 (HEPA) SIMPSON, LANCE L. Physiologic pharmacology and its clinical applications--Psychotheropeutic drugs and cardiovascular system (human, rats).

P01HL-1273B-10 0069 (HEPA) CHIEN, SHU. Physiologic pharmacology and its clinical applications--Blood rheology in coronary heart disease (dogs).

P01HL-1273B-10 0071 (HEPA) BREGMAN, DAVIO. Physiologic pharmacology and its clinical applications--IABP patient management in ventricular power failure (human).

P01HL-1273B-10 0076 (HEPA) ROSEN, MICHAEL R. Physiologic pharmacology and its clinical applications--Pediatric cardiac electrophysiology and pharmacology (human, dogs).

P01HL-1273B-10 0080 (HEPA) WIT, A L. Physiologic pharmacology and its clinical applications--Electrophysiology of cardiac muscle in the mitral valve (monkeys).

P01HL-1273B-10 00B1 (HEPA) WIT, A L. Physiologic pharmacology and its clinical applications--Ultrastructural and electrophysiologic alteration of myocardium (human, dogs).

P01HL-12738-10 0092 (HEPA) PARODI, EOUARDO N. Physiologic pharmacology and its clinical applications--Subendocardial ischemia following open heart surgery (human).

P01HL-12738-10 0094 (HEPA) SPOTNITZ, HENRY H. Physiologic pharmacology and its clinical applications--Ventricular function and structure (human, dogs).

P01HL-12738-10 009B (HEPA) SPOTNITZ, HENRY H. Physiologic pharmacology and its clinical applications--Skeletal muscle support of the chronically failing heart (dogs).

P01HL-1273B-10 0107 (HEPA) ROSEN, MICHAEL R. Physiologic pharmacology and its clinical applications--Blood superfused cardiac fibers (dogs).

P01HL-12738-10 0108 (HEPA) ROSEN, MICHAEL R. Physiologic pharmacology and its clinical applications--Oevelopmental electrophysiology and pharmacology (human, animals).

P01HL-1273B-10 0109 (HEPA) KIRSTEN, EDWARD B. Physiologic pharmacology and its clinical applications--Effects of calcium blockers on skeletal and cardiac muscle (cats).

P01HL-12738-10 0110 (HEPA) HOFFMAN, BRIAN F. Physiologic pharmacology and its clinical applications--Physiology and pharmacology of arrhythmias (dogs).

P01HL-1273B-10 0111 (HEPA) WANG, H H. Physiologic pharmacology and its clinical applications--Cardiovascular pharmacology (dogs).

P01HL-1273B-10 0114 (HEPA) SAWYER, W H. Physiologic pharmacology and its clinical applications--Receptor specificites and metabolism of neurohypophysial hormones (rats).

P01HL-1273B-10 0117 (HEPA) BIGGER, J THOMAS, JR. Physiologic pharmacology and its clinical applications--Ventricular arrhythmias in ischemic heart disease (human).

P01HL-1273B-10 0122 (HEPA) HABAL, SALEM. Physiologic pharmacology and its clinical applications--Coronary perfusion of beating and fibrillating hearts (dogs).

P01HL-12738-10 0123 (HEPA) BREGMAN, DAVID. Physiologic pharmacology and its clinical applications--Ventricular assistance and preservation (human, dogs).

P01HL-1273B-10 0124 (HEPA) WELLS, W. Physiologic pharmacology and its clinical applications--Counterpulsation on myocardial ischemia measured by carbon dioxide tension (dogs).

P01HL-1273B-10 0127 (HEPA) KRONGRAD, EHUO. Physiologic pharmacology and its clinical applications--Cardiac electrical activity (human, animals).

P01HL-12738-10 0128 (HEPA) HOFFMAN, BRIAN F. Physiologic pharmacology and its clinical applications--Recording electrograms from specialized cardiac tissues (human, dogs).

P01HL-12738-10 0129 (HEPA) SAWYER, W H. Physiologic pharmacology and its clinical applications--Receptor specificities and metabolism of vasopressin analogs.

P01HL-12738-10 0130 (HEPA) SPOTNITZ, H. Physiologic pharmacology and its clinical applications--Compatibility enhancement during cardiac allografting (dogs).

P01HL-1273B-10 0131 (HEPA) KRONGRAO, EHUD. Physiologic pharmacology and its clinical applications--Evaluation of intracardiac shunts by contrast echocardiography (dogs).

P01HL-1273B-10 0132 (HEPA) HOFFMAN, BRIAN F. Physiologic pharmacology and its clinical applications--Coronary occlusions and arrhythmias (dogs).

P01HL-1273B-10 0133 (HEPA) AVERY, G JAMES, III. Physiologic pharmacology and its clinical applications--Pharmacologic antagonism of beta-adrenergic blockade (dogs).

P01HL-12738-10 0134 (HEPA) TRINER, L. Physiologic pharmacology and its clinical applications--Adenylate cyclase and cAMP phosphodiesterase in cardiac development (dogs).

P01HL-1273B-10 0135 (HEPA) ROBINSON, RICHARO. Physiologic pharmacology and its clinical applications--Myocardial cells in tissue culture (rats, chick embryo).

P01HL-12738-10 0136 (HEPA) WIT, A L. Physiologic pharmacology and its clinical applications--.

R01HL-12740-10 (PHRA) WITIAK, DONALO T, COLLEGE OF PHARMACY, 500 WEST 12TH AVENUE, COLUMBUS, OHIO. Hypocholesterolemic agents--Stereochemistry (rats).

R01HL-12745-10 (PC) POPJAK, GEORGE J, UNIVERSITY OF CALIFORNIA, OEPT OF BIOLOGICAL CHEMISTRY, LOS ANGELES, CALIF. Enzymes and inhibitors of cholesterol biosynthesis (rats, human, swine).

R01HL-12760-09 (BBCB) CAOENHEAO, OAVIO A, S U N Y AT BUFFALO, OEPARTMENT OE CHEMISTRY, BUFFALO, N Y Surface studies of membrane lipids and proteins

R01HL-12766-09 (CVB) WOLINSKY, HARVEY, ALBERT EINSTEIN COLL OF MED, 1300 MORRIS PARK AVENUE, BRONX, N Y Structure-function relation of blood vessels (rats, monkeys)

R01HL-12774-08 (CVA) KAVALER, FREOERIC, S U N Y DOWNSTATE MED CTR, 450 CLARKSON AVENUE, BROOKLYN, N Y Ionic coupling in activation of cardiac muscle (frogs, guinea pigs)

R01HL-12775-08 (CVB) ROSENBLUM, WILLIAM I, VIRGINIA COMMONWEALTH UNIV, BOX 17, OIV OF NEUROPATHOLOGY , RICHMOND, VA Cerebral microcirculation (mice).

R01HL-12777-09 (SGY8) OAGGETT, WILLARO M, MASSACHUSETTS GENERAL HOSP, FRUIT STREET, BOSTON, MASS. Mechanisms in cardiac performance (dogs, human).

R01HL-12792-09 (PHY) OULING, BRIAN R, UNIVERSITY OF VIRGINIA, DEPARTMENT OF PHYSIOLOGY, CHARLOTTESVILLE, VA. Local control of the microcirculation (hamsters, rats).

R01HL-12820-09 (HEM) JACKSON, CRAIG M, WASHINGTON UNIVERSITY, 660 SOUTH EUCLIO AVENUE, ST LOUIS, MO. In vitro regulation of prothrombin activation.

R01HL-12B27-08 (GMB) SLOTKOFF, LAWRENCE M, GEORGETOWN UNIVERSITY HOSPITAL, 3800 RESERVOIR ROAO, N W, WASHINGTON, O C. Regulation of sodium excretion (dogs, rats).

R01HL-12B33-09 (EOC) MITTMAN, CHARLES, CITY OF HOPE MEOICAL CENTER, 1500 EAST DUARTE ROAO, DUARTE, CALIF. Genetic and environmental influences on lung disease (human).

R01HL-12B39-09 (SGYA) SUTERA, SALVATORE P, WASHINGTON UNIVERSITY, BOX 1185, LINOELL/SKINKER BLVD, ST LOUIS, MO. Flow, transport and membrane phenomena in blood (human).

R01HL-12B69-09 (MET) CHOBANIAN, ARAM V, BOSTON UNIVERSITY, 80 EAST CONCORO STREET, BOSTON, MASS. Arterial metabolism, diabetes and atherogenesis (rats, rabbits).

R01HL-12B79-09 (CVA) CHINARO, FRANCIS P, NEW JERSEY MEOICAL SCHOOL, 100 BERGEN STREET, NEWARK, N J. Pulmonary transport and metabolism in vivo.

R01HL-12B79-09 0002 (CVA) RITTER, A 8. Pulmonary transport and metabolism in vivo--Osmotic compartmental model of barrior exchange.

R01HL-12879-09 000S (CVA) CHINARO, FRANCIS P. Pulmonary transport and metabolism in vivo--Glucose transport by pulmonary endothelium and epithelium (dogs).

R01HL-12B79-09 0006 (CVA) CHINARO, FRANCIS P. Pulmonary transport and metabolism in vivo--The missing sodium.

R01HL-12879-09 0007 (CVA) CHINARO, FRANCIS P. Pulmonary transport and metabolism in vivo--Effects of temperature changes on pulmonary transport.

R01HL-12B79-09 0008 (CVA) CHINARO, FRANCIS P. Pulmonary transport and metabolism in vivo--Stop-flow technique for permeability measurements.

R01HL-12B79-09 0010 (CVA) DEFOUW, D. Pulmonary transport and metabolism in vivo--Lung morphometry in control and edematous lungs (dogs).

R01HL-12B79-09 0011 (CVA) GARRICK, R A. Pulmonary transport and metabolism in vivo--Membrane characteristics of lung cells (human, animals).

R01HL-12944-09 (HEM) VALENTINE, WILLIAM N, UNIVERSITY OF CALIFORNIA, MEOICINE DEPARTMENT, LOS ANGELES, CALIF. Enzymatic and biochemical studies on blood cells (human).

R01HL-12971-1S (MCHA) SHAMMA, MAURICE, PENNSYLVANIA STATE UNIVERSITY, 152 DAVEY LABORATORY, UNIVERSITY PARK, PA. Reactions of alkoloids and their analogs.

R01HL-12972-09 (HEM) SMITH, JOSEPH E, KANSAS STATE UNIVERSITY, BURT HALL, MANHATTAN, KANS. Glutathione deficiency in red cells (sheep, dogs).

R01HL-12974-10 (CVA) CHINARO, FRANCIS P, NEW JERSEY MEDICAL SCHOOL, 100 BERGEN STREET, NEWARK, N J. Tracer kinetics, flows and masses in body organs (human, dogs).

R01HL-12990-09 (GMB) SHARE, LEONARO, UNIVERSITY OF TENNESSEE, 894 UNION AVENUE, MEMPHIS, TENN. Control of antidiuretic hormone secretion and metabolism (dogs, rats, rabbits).

R01HL-12994-09 (HEM) MASOUREDIS, SERAFEIM P, UNIV OF CALIFORNIA, SAN DIEGO, M-012, LA JOLLA, CALIF. The Rh complex of red cells (human).

R01HL-12997-07 (CV8) HARRISON, CARLOS E, JR, MAYO FOUNOATION, 200 FIRST STREET, S W, ROCHESTER, MINN. Myocardial defects induced by potassium depletion (human, rats,.

R01HL-13028-09 (MET) NEELY, JAMES R, MILTON S HERSHEY MEOICAL CTR, 500 UNIVERSITY ORIVE, HERSHEY, PA. Regulation of myocardial fatty acid metabolism (rats).

R01HL-13029-09 (MET) MORGAN, HOWARO E, MILTON S HERSHEY MEO CENTER, OEPARTMENT OF PHYSIOLOGY, HERSHEY, PA. Metabolic regulation of sugar transport (pigeons, rats).

R01HL-13035-08 (BIO) SHORE, JOSEPH D, HENRY FORO HOSPITAL, 2799 WEST GRAND BOULEVARO, OETROIT, MICH. Heart mitochondrial malate dehydrogenase regulation.

R01HL-13036-0B (CV8) MOSCHOS, CHRISTOS 8, NEW JERSEY MEOICAL SCHOOL, 100 BERGEN STREET, NEWARK, N J. Coronary thrombosis--Effects on myocardium and in vivo detection (dogs, monkeys) .

P01HL-13108-09 (HEPA) STINSON, EOWARO B, STANFORO UNIVESITY, OEPT OF CAROIOVASCULAR SURGERY, STANFORO, CALIF. Clinical heart transplantation.

P01HL-13108-09 0001 (HEPA) STINSON, EOWARD 8. Clinical heart transplantation--Therapy and prognosis (human).

P01HL-1310B-09 0002 (HEPA) BIEBER, CHARLES P. Clinical heart transplantation--Preoperative immunologic studies of cardiac recipients.

P01HL-13108-09 0003 (HEPA) BILLINGHAM, MARGARET T. Clinical heart transplantation--Endomyocardial biopsy pathology.

P01HL-13108-09 0008 (HEPA) SCHROEOER, JOHN. Clinical heart transplantation--Physiology and pharmacology of the transplanted human heart.

P01HL-13108-09 0009 (HEPA) GRUMET, F CARL. Clinical heart transplantation--B cell alloantigens in cardiac allograft compatibility (human).

P01HL-1310B-09 0010 (HEPA) BIEBER, CHARLES P. Clinical heart transplantation--Serum factors inhibiting lymphocyte responses in MLC (human, bush babies).

P01HL-13108-09 0011 (HEPA) BIEBER, CHARLES P. Clinical heart transplantation--Humoral and cellular kinetics of allograft rejection (human).

P01HL-13108-09 0012 (HEPA) BIEBER, CHARLES P. Clinical heart transplantation--Human T cell sheep erythrocyte receptors.

P01HL-1310B-09 0013 (HEPA) BIEBER, CHARLES P. Clinical heart transplantation--Cardiomyopathic lymphocyte responsiveness to cultured endothelium.

P01HL-13108-09 0014 (HEPA) HARBURY, CHRISTINA B. Clinical heart transplantation--Platelets and coagulation in accelerated graft coronary atherosclerosis.

P01HL-13108-09 0015 (HEPA) BIEBER, CHARLES P. Clinical heart transplantation--Antithymocyte globulin analysis and clinical effects.

P01HL-13108-09 0016 (HEPA) STROBER, SAM. Clinical heart transplantation--Total lymphoid irradiation for immune response (dogs).

P01HL-13108-09 0017 (HEPA) MASON, JAY W. Clinical heart transplantation--Electrophysiology of the transplanted denervated human heart.

P01HL-13108-09 0018 (HEPA) MASON, JAY W. Clinical heart transplantation--Electrophysiologic studies of cardiac drugs in the denervated heart.

P01HL-13108-09 0019 (HEPA) MASON, JAY W. Clinical heart transplantation--Effect of autonomic nervous system on arrhythmias (human).

P01HL-1310B-09 0020 (HEPA) RICCI, DONALD R. Clinical heart transplantation--Autonomic neural studies in the denervated heart (human).

P01HL-1310B-09 0021 (HEPA) RICCI, DONALD R. Clinical heart transplantation--Autonomic reflex regulation of ventricular function (human).

P01HL-13108-09 0022 (HEPA) RICCI, DONALD R. Clinical heart transplantation--Studies on cardiac receptors (human).

P01HL-1310B-09 0023 (HEPA) SCHROEDER, JOHN S. Clinical heart transplantation--Adaptive mechanisms of the denervated heart (human).

P01HL-13108-09 0024 (HEPA) SCHROEDER, JOHN S. Clinical heart transplantation--Response of denervated heart to stress--Noninvasive (human).

R01HL-13134-07 (CVA) NAIR, PANKAJAM, ST VINCENT CHARITY HOSPITAL, 2351 EAST STREET, CLEVELAND, OHIO. Mechanism of chemoreceptor discharge (cats).

R01HL-13157-09 (BBCA) IBERS, JAMES A, NORTHWESTERN UNIVERSITY, DEPARTMENT OF CHEMISTRY, EVANSTON, ILL. Molecular oxygen carriers--Synthesis, structure, bonding.

R01HL-13160-0B (HEM) FENTON, JOHN W, II, NEW YORK STATE DEPT OF HEALTH, EMPIRE STATE PLAZA, NEW YORK, N Y. Human thrombin (also cattle).

R01HL-13164-07 (BBCA) BUCCI, ENRICO, UNIVERSITY OF MARYLAND, 660 WEST REDWOOD STREET, BALTIMORE, MD. Interaction of the alpha and beta chains of human hemoglobin.

R01HL-13172-10 (SGYB) PETERS, RICHARD M, UNIVERSITY HOSPITAL, 225 WEST DICKINSON STREET, SAN DIEGO, CALIF. Post-trauma lung mechanics and fluid exchange (human, dogs, monkeys).

R01HL-13187-09 (PHRA) GEBBER, GERARD L, MICHIGAN STATE UNIVERSITY, DEPT OF PHARMACOLOGY, EAST LANSING, MICH. Central neural control of cardiovascular function (cats).

R01HL-13193-09 (SGYB) RUSH, BENJAMIN F, JR, NEW JERSEY MEDICAL SCHOOL, 100 BERGEN STREET, NEWARK, N J. Pathophysiology of post-traumatic and shock states (rodents, dogs).

R01HL-1319B-21 (HEM) WAUGH, DAVID F, MASSACHUSETTS INST OF TECH, 77 MASSACHUSETTS AVENUE, CAMBRIDGE, MASS. Blood coagulation--Physico-chemical properties (human, cattle).

R01HL-13233-0B (AFY) HILDEBRANDT, JUDITH R, VIRGINIA MASON RESEARCH CTR, 1000 SENECA STREET, SEATTLE, WASH. Cardiorespiratory control in exercise (human).

R01HL-13237-09 (PHY) LEE, PING, WEST VIRGINIA UNIVERSITY, DEPT OF PHY & BIOPHYSICS, MORGANTOWN, W VA. Erythrocytes during early development (human, animals).

R01HL-13256-08 (PHY) VIDAVER, GEORGE A, UNIVERSITY OF NEBRASKA, DEPARTMENT OF CHEMISTRY, LINCOLN, NEBR. Amino acid transport by red cell membranes (pigeons).

R01HL-13257-09 (SGYA) MERIN, ROBERT G, UNIVERSITY OF ROCHESTER, 601 ELMWOOD AVENUE, ROCHESTER, N Y. Inhalation anesthesia on myocardial metabolism (dogs, swine, human).

P01HL-13262-07 (HEPA) HOLLANDER, WILLIAM, BOSTON UNIVERSITY SCHOOL OF ME, 80 EAST CONCORD STREET, BOSTON, MASS. Arterial wall in atherosclerosis.

P01HL-13262-07 0011 (HEPA) HOLLANDER, WILLIAM. Arterial wall in atherosclerosis--Role of hypertension in atherosclerosis (human, monkey, dog).

P01HL-13262-07 0012 (HEPA) FRANZBLAU, CARL. Arterial wall in atherosclerosis--Characterization of connective tissue components (animals).

P01HL-13262-07 0015 (HEPA) KAGAN, HERBERT M. Arterial wall in atherosclerosis--Crosslinkage biosynthesis in aortic elastin and collagen (animals).

P01HL-13262-07 0016 (HEPA) KRAMSCH, DIETER M. Arterial wall in atherosclerosis--Lipids in elastin preparations from atherosclerotic plaques (human, animals).

P01HL-13262-07 001B (HEPA) SCHMID, KARL. Arterial wall in atherosclerosis--Vasoactive factors of human plasma.

P01HL-13262-07 0022 (HEPA) DEYKIN, DANIEL. Arterial wall in atherosclerosis--Mechanisms of platelet prostaglanoin formation.

P01HL-13262-07 0023 (HEPA) FOSTER, JUDITH. Arterial wall in atherosclerosis--Isolation and characterization of soluble elastin.

P01HL-13262-07 0024 (HEPA) LAING, RONALD A. Arterial wall in atherosclerosis--Serial ocular changes in arteriosclerosis and hypertension.

P01HL-13262-07 0025 (HEPA) SMALL, DONALD. Arterial wall in atherosclerosis--Phospholipid and cholesterol esters.

R01HL-13302-09 (MET) ONTKO, JOSEPH A, OKLAHOMA MEDICAL RESEARCH FDN, 825 N W 13TH STREET, OKLAHOMA CITY, OKLA. Uptake and metabolism of lipids by the liver (rats).

R01HL-13306-0B (PHRA) TSIEN, RICHARD W, YALE SCHOOL OF MEDICINE, 333 CEDAR STREET, NEW HAVEN, CONN. Pharmacological control of cardiac membrane currents (cattle, rabbits).

R01HL-1331S-08 (PHRA) GILLIS, CHARLES N, YALE UNIVERSITY, 333 CEDAR STREET, NEW HAVEN, CONN. Disposition of vasoactive hormones in mammalian lung (rats, rabbits, human).

R01HL-13323-08 (CVB) HEBERT, LEE A, MILWAUKEE COUNTY GEN HOSPITAL, WEST WISCONSIN AVENUE, MILWAUKEE, WIS. Intrarenal pressure and renal function (human, dogs).

P01HL-13330-0B (HEP) DEBAKEY, MICHAEL E, BAYLOR COLLEGE OF MEDICINE, 1200 MOURSUND AVENUE, HOUSTON, TEX. Mechanical circulatory support.

P01HL-13330-08 0031 (HEP) OBANNON, WILLIAM. Mechanical circulatory support--Hemodynamics of cardiac prosthesis.

P01HL-13330-0B 0034 (HEP) NOON, GEORGE P. Mechanical circulatory support--In vivo test and evaluation of left ventricular bypass pumps (human, cattle).

P01HL-13330-0B 0056 (HEP) ESKIN, S G. Mechanical circulatory support--Blood compatibility linings (calves).

P01HL-13330-0B 0059 (HEP) CHIMOSKEY, JOHN E. Mechanical circulatory support--Physiologic evaluation of circulatory assistance (cattle).

P01HL-13330-08 0062 (HEP) DEBAKEY, MICHAEL E. Mechanical circulatory support--CORE facilities.

R01HL-13336-09 (HEM) KARPATKIN, SIMON, NEW YORK UNIVERSITY, 550 FIRST AVENUE, NEW YORK, N Y. Biochemistry and physiology of human platelets.

R01HL-13339-08 (PHRA) PAPPANO, ACHILLES J, UNIV OF CONN HEALTH CNTR, DEPT OF PHARMACOLOGY, FARMINGTON, CONN. Pharmacology of developing cardiac tissues (chick embryo).

R01HL-13341-06 (SGYB) WITTE, CHARLES L, ARIZONA MEDICAL CENTER, 1501 NORTH CAMPBELL AVENUE, TUCSON, ARIZ. Lymph--An indication of splanchnic tissue respiration (dogs, human, rats).

R01HL-13349-06 (PHY) SLEATOR, WILLIAM W, UNIVERSITY OF ILLINOIS, 524 BURRILL HALL, URBANA, ILL. Analysis of activation process in heart muscle (guinea pigs, rabbits, human).

R01HL-1337S-09 (CVA) DAVIS, LARRY D, UNIVERSITY OF WISCONSIN, 470 NORTH CHARTER STREET, MADISON, WISC. Cellular potential changes causing cardiac arrhythmias (dogs).

R01HL-13399-16 (BBCB) PEISACH, JACK, ALBERT EINSTEIN COLL OF MED, 1300 MORRIS PARK AVENUE, BRONX, N Y. Heme protein structure and function (human, horse, plants, bacteria).

R01HL-13405-09 (MET) LONGMORE, WILLIAM J, ST LOUIS UNIVERSITY, 1402 S GRAND BOULEVARD, ST LOUIS, MO. Regulation of lipid metabolism in the lung (rats).

R01HL-13408-0S (CVB) IWAI, JUNICHI, BROOKHAVEN NATIONAL LABORATORY, MEDICAL RESEARCH CENTER, UPTON, N Y. Environmental-genetic interactions in hypertension (rats).

R01HL-13412-17 (MCHB) BASOLO, FRED, NORTHWESTERN UNIVERSITY, DEPARTMENT OF CHEMISTRY, EVANSTON, ILL. Synthetic oxygen carriers.

R01HL-13423-0B (HEM) CASTELLINO, FRANCIS J, UNIVERSITY OF NOTRE DAME, DEPARTMENT OF CHEMISTRY, NOTRE DAME, IND. Structure-function studies of plasminogen and plasmin (human).

R01HL-13426-09 (SGYA) PIERCE, WILLIAM S, PENNSYLVANIA STATE UNIVERSITY, DEPARTMENT OF SURGERY, HERSHEY, PA. Left ventricular bypass for myocardial infarction (cattle, human).

R01HL-13427-09 (CVB) GILMORE, JOSEPH P, UNIVERSITY OF NEBRASKA, 42ND AND DEWEY, OMAHA, NEBR. Neural control of blood volume (monkeys, dogs).

R01HL-13437-09 (CVB) GORE, ROBERT W, UNIVERSITY OF ARIZONA, DEPARTMENT OF PHYSIOLOGY, TUCSON, ARIZ. Physical and mechanical parameters in the microcirculation (animals).

R01HL-1345A-08 (CVB) CORLEY, KARL C, JR, MEDICAL COLLEGE OF VIRGINIA, MCV STATION, BOX 608, RICHMOND, VA. Behavioral stress and cardiomyopathy (monkeys, cats).

R01HL-13466-08 (SGYB) SCHWARTZ, SEYMOUR I, UNIVERSITY OF ROCHESTER, 601 ELMWOOD AVENUE, ROCHESTER, N Y. Pulmonary platelets in shock, trauma and embolization (dogs, pigs, rats).

P01HL-1348O-09 (HEP) ABILDSKOV, J A, UNIVERSITY OF UTAH MEDICAL CEN, 50 NORTH MEDICAL DRIVE, SALT LAKE CITY, UTAH. Cardiac electrophysiology.

P01HL-13480-09 0017 (HEP) ABILDSKOV, J A. Cardiac electrophysiology--Body surface potential mapping (human, dogs).

P01HL-1348O-09 0026 (HEP) MILLAR, KAY. Cardiac electrophysiology--Neural influences on cardiac electrophysiology and contraction (dog, cat).

P01HL-13480-09 0028 (HEP) VINCENT, G MICHAEL. Cardiac electrophysiology--Stress electrocardiography (human, dogs).

P01HL-13480-09 0032 (HEP) BURGESS, MARY JO. Cardiac electrophysiology--Cardiac activation sequence (dogs).

P01HL-13480-09 0042 (HEP) LUX, ROBERT L. Cardiac electrophysiology--Computer modeling of arrhythmias.

R01HL-13531-06 (BBCB) HOFFMAN, BRIAN M, NORTHWESTERN UNIVERSITY, DEPARTMENT OF CHEMISTRY, EVANSTON, ILL. Coboglobins--Cobalt substituted myo- and hemoglobins.

R01HL-13567-06 (PHY) OMACHI, AKIRA, UNIVERSITY OF ILLINOIS, 901 SOUTH WOLCOTT STREET, CHICAGO, ILL. Ion transport across cell membranes (human).

R01HL-13581-11 (MCHB) TRAYLOR, TEDDY G, UNIV OF CALIFORNIA, SAN DIEGO, LA JOLLA, CALIF. Reactions of oxygen with heme proteins.

R01HL-13585-05 (HEM) SCHWARTZ, JOEL M, CONEY ISLAND HOSPITAL, 2601 OCEAN PARKWAY, BROOKLYN, N Y. Heterogeneity of NADH methemoglobin reductase (human).

R01HL-13587-06 (MCHA) TURCOTTE, JOSEPH G, UNIVERSITY OF RHODE ISLAND, LOWER COLLEGE ROAD, KINGSTON, R I. Synthesis of renin inhibitors and analog phosphatides (rats).

R01HL-13595-08 (CVB) KRAKOFF, LAWRENCE R, C U N Y - MT SINAI SCH OF MED, FIFTH AVENUE & 100TH STREET, NEW YORK, N Y. Renin and vascular hyper-reactivity in hypertension (human, rats).

R01HL-13596-07 (CVA) MEYER, EDWARD C, MERCY CATHOLIC MEDICAL CENTER, LANSDOWNE AVE & BAILY ROAD, DARBY, PA. Clearance of plasma proteins from alveoli.

R01HL-13619-09 (BIO) MASTERS, BETTIE S, UNIVERSITY OF TEXAS, 5323 HARRY HINES BLVD, DALLAS, TEX. Microsomal electron transport in liver and heart (human, mammals).

R01HL-13623-0B (CVB) GOETZ, KENNETH L, ST LUKE'S HOSPITAL, WORNALL ROAD AT FOURTH STREET , KANSAS CITY, MO. Atrial receptors (dogs).

R01HL-13626-06 (MET) WILSON, DANA E, UNIVERSITY OF UTAH, 50 NORTH MEDICAL DRIVE, SALT LAKE CITY, UTAH. Lipoprotein lipase and lipoprotein removal (human, rats, bacteria).

R01HL-13629-08 (HEM) ASTER, RICHARD H, MILWAUKEE BLOOD CENTER, INC, 1701 WEST WISCONSIN AVENUE, MILWAUKEE, WIS. Hemorrhagic diseases (human).

R01HL-13630-0B (PC) THOMAS, JAMES A, IOWA STATE UNIVERSITY, DEPT OF BIOCHEM & BIOPHYSICS, AMES, IOWA. Control of glycogen synthesis in heart (cattle).

R01HL-13632-0B (PTHA) JACKSON, ROBERT L, UNIVERSITY OF MISSOURI, DEPARTMENT OF PEDIATRICS, COLUMBIA, MO. Vascular changes in diabetes mellitus (human).

R01HL-13634-08 (CVB) BRINKMAN, CHARLES R, III, UNIVERSITY OF CALIFORNIA, 405 HILGARD AVENUE, LOS ANGELES, CALIF. Renal hypertension in pregnancy (sheep).

R01HL-13636-08 (PHRA) BRESSLER, RUBIN, UNIVERSITY OE ARIZONA, COLLEGE OE MFOICINE, TUCSON, ARIZ. Effects of pharmacologic agents on heart metabolism (human, rodents)

R01HL-13639-07 (CVA) WILLIAMS, JOHN F, JR, UNIVERSITY OE TEXAS, OEPARTMENT OE MEOICINE, GALVESTON, TEX. Eactors altering the course of myocardial dysfunction (cats)

R01HL-13645-11 (CVA) CARLSON, JAMES R, WASHINGTON STATE UNIVERSITY, OEPT OE ANIMAL SCIENCES, PULLMAN, WASH. Tryptophan-induced pulmonary emphysema (cattle, goats, rabbits)

R01HL-13651-07 (BMT) HAYES, ROBERT G, UNIVERSITY OF NOTRE OAME, CHEMISTRY OEPARTMENT, NOTRE OAME, INO. X-ray photoelectron spectroscopy of heme compounds.

R01HL-13652-08 (MCH8) HENORICKSON, OAVIO N, UNIVERSITY OE ILLINOIS, SCHOOL OE CHEMICAL SCIENCES, URBANA, ILL. Metal sites in metalloproteins (mushroom).

R01HL-13654-0B (CVA) COFFMAN, JAY D, 75 EAST NEWTON STREET, BOSTON, MASS. Antilipemic regimes in peripheral arteriosclerosis (human).

R01HL-13666-06 (PHRA) ROBERTS, JAY, MEO COLLEGE OF PENNSYLVANIA, 3300 HENRY AVENUE, PHILAOELPHIA, PA. Pharmacology of genesis of cardiac rhythmicity (rats, cats).

R01HL-13694-08 (PTHA) WILLIAMSON, JOSEPH R, WASHINGTON UNIVERSITY, OEPT OE PATHOLOGY, ST LOUIS, MO. Capillary basement membrane in cardiovascular disease (human, rats).

R01HL-13715-08 (END) LEVEY, GERALO S, UNIVERSITY OF MIAMI, POST OFEICE BOX 520875, MIAMI, FLA. Myocardial adenyl cyclase (rats).

R01HL-13722-0B (PTHA) KRITCHEVSKY, OAVID, UNIVERSITY OE PENNSYLVANIA, 3400 SPRUCE STREET, PHILAOELPHIA, PA. Acid and alkaline lipases in aortas (rats, rabbits, human).

P01HL-13737-07 (HEP) KANTROWITZ, AORIAN, SINAI HOSPITAL OE OETROIT, 6767 WEST OUTER ORIVE, OETROIT, MICH. Assisted circulation.

P01HL-13737-07 0002 (HEP) FREED, PAUL S. Assisted circulation--U-shaped mechanical auxiliary ventricle (dogs).

P01HL-13737-07 000S (HEP) WELKOWITZ, WALTER. Assisted circulation--Piezoelectric assist device (animals).

P01HL-13737-07 0006 (HEP) WELKOWITZ, WALTER. Assisted circulation--Portable driving unit for permanent assist devices (dogs).

P01HL-13737-07 0007 (HEP) MOSKOWITZ, MITCHELL S. Assisted circulation--Oetermination of cardiac status by use of balloon pump (dogs).

P01HL-13737-07 000B (HEP) FREEO, PAUL S. Assisted circulation--Phase-shift balloon pumping alternate designs.

P01HL-13737-07 0009 (HEP) WELKOWITZ, WALTER. Assisted circulation--Analytical models.

P01HL-13737-07 0013 (HEP) FREED, PAUL S. Assisted circulation--Incorporation of sensors (human, dogs).

P01HL-13737-07 0024 (HEP) FREED, PAUL S. Assisted circulation--Oynamic prosthetic myocardium (dogs).

P01HL-13737-07 002S (HEP) MOSKOWITZ, MITCHELL S. Assisted circulation--Oriving system based on quantitative criteria (human, dogs).

P01HL-13737-07 0026 (HEP) MAMMEN, EBERHARO F. Assisted circulation--Hemostatic mechanism (human, dogs).

P01HL-13737-07 0027 (HEP) MOSKOWITZ, MITCHELL S. Assisted circulation--Optimization of cardiac assistance (dogs).

P01HL-13737-07 002B (HEP) KANTROWITZ, ADRIAN. Assisted circulation--Clinical studies of intraaortic balloon pumping.

P01HL-13737-07 0029 (HEP) KANTROWITZ, AORIAN. Assisted circulation--Chronic left ventricular failure (human).

P01HL-13737-07 0030 (HEP) RUBENFIRE, MELVYN. Assisted circulation--Myocardial ischemia--Effects of phase-shift balloon pumping (dogs).

P01HL-13737-07 0031 (HEP) WHITTY, ALBERT J. Assisted circulation--Myocardial ischemia--Biochemical changes (dogs).

P01HL-13737-07 0032 (HEP) KANTROWITZ, AORIAN. Assisted circulation--The dynamic aortic patch (human, dogs).

P01HL-13737-07 0033 (HEP) SAWATANI, SATOSHI. Assisted circulation--Autologous bioprosthetic grafts for coronary artery bypass surgery (human, dogs).

P01HL-13737-07 0034 (HEP) MOSKOWITZ, MITCHELL S. Assisted circulation--Phasic aortic flow and cardiac output from phasic pressures (dogs).

P01HL-13737-07 003S (HEP) MOSKOWITZ, MITCHELL S. Assisted circulation--Mapping the geometry and elasticity of the aorta.

P01HL-13737-07 0036 (HEP) MOSKOWITZ, MITCHELL S. Assisted circulation--Assessment of infarct size from hemodynamic measurements.

P01HL-13737-07 0037 (HEP) HAMOUOA, FAROUK A. Assisted circulation--Clinical measurement of blood flow through aorto-coronary vein bypass graft.

P01HL-13737-07 003B (HEP) HAMOUDA, FAROUK A. Assisted circulation--Oistinguishing the ischemic ventricle from scarred ventricle by balloon pumping.

P01HL-13737-07 0039 (HEP) MOSKOWITZ, MITCHELL S. Assisted circulation--Computer controlled intraortic balloon pumping.

P01HL-1373B-0B (HEP) KOLFF, WILLEM J, UNIVERSITY OF UTAH, BUILOING 518, SALT LAKE CITY, UTAH. Cardiac assist devices and artificial hearts.

P01HL-1373B-08 0001 (HEP) DONOVAN, FRANK. Cardiac assist devices and artificial hearts--Cardiac assist devices (human, sheep).

P01HL-1373B-0B 0002 (HEP) KOLFF, WILLIAM J. Cardiac assist devices and artificial hearts--Total replacement with artificial heart (calves, sheep, ponies).

P01HL-13738-0B 0003 (HEP) PETERS, JEFFREY L. Cardiac assist devices and artificial hearts--Pathophysiological effects of the artificial heart (calves).

P01HL-1373B-0B 0004 (HEP) KWAN-GETT, CLIFFORO S. Cardiac assist devices and artificial hearts--Hematological evaluation of prosthetic materials (calves).

P01HL-1373B-08 000S (HEP) LYMAN, DONALO J. Cardiac assist devices and artificial hearts--Oevelopment of new materials for artificial heart and assist devices (sheep, dog).

R01HL-137S4-0B (SGYB) SALZMAN, EDWIN W, BETH ISRAEL HOSPITAL, 330 BROOKLINE AVENUE, BOSTON, MASS. Postoperative thromboembolism in surgical patients (human).

R01HL-13B03-07 (SGYB) CLARK, RICHARO E, 4960 AUOUBON AVENUE, ST LOUIS, MO. Advanced cardiac valvular and vascular prosthesis (dogs, baboons).

R01HL-13824-06 (CVA) LOURENCO, RUY V, 840 SOUTH WOOO STREET, POST OFEICE BOX 6998, CHICAGO, ILL. Oefense mechanisms in pathogenesis of emphysema (human, dogs).

R01HL-13831-0B (MBY) MANASEK, FRANCIS J, UNIVERSITY OI CHICAGO, 1025 EAST 57TH STREET, CHICAGO, ILL. Factors regulating embryonic cardiac morphogenesis (chick, salamandra)

R01HL-13B41-16 (AFY) MINES, ALLAN H, UNIVERSITY OF CALIFORNIA, THIRD AND PARNASSUS, SAN FRANCISCO, CALIF. Respiration during altitude acclimatization (goats, dogs, rats, rabbits)

P01HL-13BS1-16 (HEPA) TER-POGOSSIAN, MICHEL M, MALLINCKROOT INST OF RAOIOLOGY, 510 SOUTH KINGSHIGHWAY, ST LOUIS, MO. Cyclotron produced isotopes in biology and medicine (human, animals)

R01HL-13B70-09 (CVB) ENTMAN, MARK L, METHODIST HOSPITAL, 6516 BFRTNER BOULEVARO, HOUSTON, TEX. Control of myocardial sarcotuhular calcium stores (dogs).

R01HL-13BB1-08 (HEM) WICKERHAUSER, MILAN, AMERICAN NATIONAL RED CROSS, 9312 OLO GEORGETOWN ROAO, BETHESOA, MD. The American Red Cross National Fractionation Center

R01HL-13BBS-08 (SSS) MATTHEWS, LEROY W, CASE WESTERN RESERVE UNIV, 2103 AOELBERT ROAO, CLEVELANO, OHIO. Cystic fibrosis and pulmonary disease.

R01HL-138BS-0B 000S (SSS) WOOO, ROBERT E. Cystic fibrosis and pulmonary disease--Evaluation of lobar pulmonary lavage (human)

R01HL-13BBS-0B 0006 (SSS) POLMAR, STEPHEN H. Cystic fibrosis and pulmonary disease--Cell mediated immunity and Pseudomonas infections in cystic fibrosis (human)

R01HL-13BBS-08 0007 (SSS) THOMASSEN, MARY JANE. Cystic fibrosis and pulmonary disease--Alveolar macrophage defense mechanism (human, rabbits).

R01HL-1388S-08 0008 (SSS) OEARBORN, DORR G. Cystic fibrosis and pulmonary disease--Pseudomonas specific activation of alveolar macrophages (human, rabbits).

R01HL-13B8S-08 0009 (SSS) BOAT, THOMAS F. Cystic fibrosis and pulmonary disease--Respiratory mucus glycoproteins (human, rabbits).

R01HL-1388S-08 9001 (SSS) OOERSHUK, CARL F. Cystic fibrosis and pulmonary disease--Pulmonary function core facility (infants, children).

R01HL-13BBS-08 9002 (SSS) PRIMIANO, F P. Cystic fibrosis and pulmonary disease--Computer core facility (human).

R01HL-138BS-0B 9003 (SSS) WOOO, ROBERT E. Cystic fibrosis and pulmonary disease--Eiberoptic bronchoscopy core facility (human, dogs, sheep).

R01HL-1388B-1S (CVA) SALZANO, JOHN V, OUKE UNIVERSITY, OEPT OE PHYSIOLOGY & PHARM, OURHAM, N C. Regulation of respiration.

R01HL-13901-08 (PTHA) LEAK, LEE V, HOWARO UNIVERSITY, OEPARTMENT OF ANATOMY, WASHINGTON, O C. Ontogeny, ultrastructure, function in lymphatic system (birds, fish, mammals).

R01HL-13909-27 (88CA) CANN, JOHN R, UNIVERSITY OE COLORAOO, 4200 EAST NINTH AVENUE, OENVER, COLO. Physiochemistry and immunology of macromolecules.

R01HL-13917-20 (CVB) LUETSCHER, JOHN A, JR, STANEORO UNIVERSITY, 300 PASTEUR, STANFORO, CALIE. Secretion and effects of adrenal hormones (human, rabbits, sheep).

R01HL-13920-07 (SGYA) SEALY, WILL C, OUKE UNIVERSITY, OURHAM, N C. Expanding the role of surgery of atrial dysrhythmias (dogs).

R01HL-13921-07 (CVA) HEINEMANN, HENRY O, CORNELL UNIVERSITY, 1300 YORK AVENUE, NEW YORK, N Y. The lung as a metabolic organ (animals).

R01HL-13929-06 (PHY) TANNER, GEORGE A, INOIANA UNIVERSITY, 1100 WEST MICHIGAN STREET, INOIANAPOLIS, INO. Single nephron response to chronic obstruction (frogs, rats).

R01HL-13936-06 (CVB) HUTCHINS, PHILLIP M, WAKE EOREST UNIVERSITY, OEPARTMENT OE PHYSIOLOGY, WINSTON SALEM, N C. Microvascular responses in hypertension (human, rats).

R01HL-13974-07 (EDC) RUBERMAN, WILLIAM, HLTH INSURANCE PLAN, 625 MAOISON AVENUE, NEW YORK, N Y. Ventricular premature beats and sudden coronary death (human).

R01HL-13987-04 (SGYA) BLUMENSTOCK, DAVIO A, MARY IMOGENE BASSETT HOSPITAL, ATWELL ROAO, COOPERSTOWN, N Y. Transplantation of the lung (dogs).

R01HL-139B8-07 (SGYA) HUGHES, HOWARD C, PENNSYLVANIA STATE UNIVERSITY, COLLEGE OE MEOICINE, UNIVERSITY PARK, PA. Elimination of reoperative cardiac pacemaker surgery (dogs).

R01HL-13989-0S (88CB) BRILL, ARTHUR S, UNIVERSITY OE VIRGINIA, OEPT OE PHYSICS, CHARLOTTESVILLE, VA. Role of water in respiratory protein structure.

R01HL-14020-06 (BBCB) STRACHER, ALFRED, S U N Y - OOWNSTATE MEO CENTER, 450 CLARKSON AVENUE, BROOKLYN, N Y. Characterization of myosin from blood platelets (rabbit).

R01HL-14092-07 (CVB) RENNICK, BARBARA R, S U N Y - AT BUEEALO, 127 FARBER HALL, BUFFALO, N Y. Homeostatic regulation of plasma choline (rats, dogs, chickens).

R01HL-14102-07 (AFY) HOUSTON, CHARLES S, UNIVERSITY DE VERMONT, DEPT OF ENVIRONMENTAL HEALTH, BURLINGTON, VT. Human physiology at 5360 meters--Mountain environment.

R01HL-14111-07 (BBCB) ENGELMAN, OONALO M, YALE UNIVERSITY, BOX 1937 YALE STATION, NEW HAVEN, CONN. Cholesteryl esters in membranes and atherosclerosis (human, swine).

R01HL-14126-17 (SGYB) KRIPPAEHNE, WILLIAM W, UNIVERSITY OE OREGON, 3181 S W SAM JACKSON PARK RO, PORTLAND, OREG. Effect of function on grafts and implants of collagen (dogs, monkeys).

R01HL-14127-16 (TOX) SMITH, ROGER P, OARTMOUTH MEDICAL SCHOOL, OEPT PHARMACOLOGY & TOXICOLOGY, HANOVER, N H. Methemoglobinemia and antihypertensive drugs (cats, mice, rats).

R01HL-14131-18 (HEM) MC CUROY, PAUL R, AMERICAN REO CROSS, 2025 E STREET, N W, WASHINGTON, O C. Abnormal hemoglobin syndromes (human).

R01HL-14133-08 (GMB) KNOX, FRANKLYN G, MAYO FOUNOATION, 200 FIRST STREET SOUTHWEST, ROCHESTER, MINN. Intrarenal regulation of sodium reabsorption (dogs, hamsters, rats).

PSOHL-14136-07 (HLBA) BURROWS, BENJAMIN, ARIZONA MEOICAL CENTER, 1501 NORTH CAMPBELL AVENUE, TUCSON, ARIZ. Pulmonary SCOR--Airways obstructive diseases.

PSOHL-14136-07 0001 (HLBA) KNUOSON, RONALO J. Pulmonary SCOR--Airways obstructive diseases--Experimental airway obstructive disease (dogs).

PSOHL-14136-07 0003 (HLBA) FULGINITI, VINCENT A. Pulmonary SCOR--Airways obstructive diseases--Acute pediatric respiratory disease and COLD.

P50HL-14136-07 0004 (HL8A) BUTLER, COOLEY, II. Pulmonary SCOR--Airways obstructive diseasese-Morphometric studies of developing emphysema (human).

P50HL-14136-07 0005 (HL8A) FREUNDLICH, IRWIN M. Pulmonary SCOR--Airways obstructive diseases--Radiographic studies of airways obstructive disease (human).

P50HL-14136-07 0009 (HL8A) 8URROWS, 8ENJAMIN. Pulmonary SCOR--Airways obstructive diseases--Tuscon epidemiological study of airways obstructive disease (human).

P50HL-14136-07 0016 (HL8A) LE8OWITZ, MICHAEL D. Pulmonary SCOR--Airways obstructive diseases--Environmental factors in airways obstructive diseases (human).

P50HL-14136-07 0017 (HL8A) TAU5SIG, LYNN M. Pulmonary SCOR--Airways obstructive diseases--Pediatric airways obstructive disease (human).

P50HL-14136-07 9001 (HLBA) LE8OWITZ, MICHAEL D. Pulmonary SCOR--Airways obstructive diseases--Biometrics core.

P50HL-14136-07 9002 (HL8A) KNUD5ON, RONALD J. Pulmonary SCOR--Airways obstructive diseases--Physiology core (human, animal).

P50HL-14136-07 9003 (HL8A) 8UTLER, COOLEY II. Pulmonary SCOR--Airways obstructive diseases--Pathology core (human, dogs).

P50HL-14136-07 9004 (HLBA) NUDELMAN, SOL. Pulmonary SCOR--Airways obstructive diseases--Radiology core (human).

P50HL-14136-07 9005 (HLBA) 8AR8EE, ROBERT. Pulmonary SCOR--Airways obstructive diseases--Clinical core.

P50HL-14136-07 9006 (HL8A) TAUSSIG, LYNN M. Pulmonary SCOR--Airways obstructive diseases--Pediatric lung function core.

P50HL-14136-07 9007 (HL8A) BURROWS, 8ENJAMIN. Pulmonary SCOR--Airways obstructive diseases--Special facilities core.

P50HL-14138-05 (SRC) BLANKENHORN, DAVID H, UNIV OF SOUTHERN CALIFORNIA, 2025 ZONAL AVENUE, LOS ANGELES, CALIF. Center for research on atherosclerosis.

P50HL-14138-05 000B (SRC) CHIN, H P. Center for research on atherosclerosis--Core lipid laboratory (human).

P50HL-14138-05 0009 (SRC) CRAWFORD, DONALD W. Center for research on atherosclerosis--Core angiographic-diagnostic laboratory (human, dogs, birds).

P50HL-14138-05 0010 (SRC) SELVESTER, RONALD H. Center for research on atherosclerosis--Diet and exercise as therapy in men with premature atherosclerosis.

P50HL-1413B-05 0014 (SRC) 8ROOKS, SAMUEL H. Center for research on atherosclerosis--Core biostatistics laboratory.

P50HL-1413B-05 0015 (SRC) ZEMPLENYI, TIBOR K. Center for research on atherosclerosis--Arterial wall--Intermediary metabolism, enzyme activity and bioenergetics.

P50HL-14138-05 0016 (SRC) SELZER, ROBERT. Center for research on atherosclerosis--Computer analysis of angiograms.

P50HL-14141-05 (SRC) JESSE, MARY J, UNIVERSITY OF MIAMI, P O BOX 875, BISCAYNE ANNEX, MIAMI, FLA. SCOR for atherosclerosis in childhood.

P50HL-14141-05 0001 (SRC) JESSE, MARY JANE. SCOR for atherosclerosis in childhood--Clinical implications (infants and children).

P50HL-14141-05 0002 (SRC) LITTLE, WILLIAM. SCOR for atherosclerosis in childhood--Intrauterine environment of proband group (human).

P50HL-14141-05 0003 (SRC) HSIA, S L. SCOR for atherosclerosis in childhood--Detection of abnormalities in lipid metabolism (human, rabbits, rats).

P50HL-14141-05 0007 (SRC) CLEVELAND, WILLIAM W. SCOR for atherosclerosis in childhood--Relation of lipid valves to sexual maturation at puberty (human).

P50HL-14141-05 0008 (SRC) HSIA, S L. SCOR for atherosclerosis in childhood--Core laboratory.

P50HL-14147-08 (SRC) MAJERUS, PHILIP W, WASHINGTON UNIVERSITY, 660 S EUCLID, ST LOUIS, MO. Specialized center of research in thrombosis.

P50HL-14147-0B 0001 (SRC) MAJERU5, PHILIP W. Specialized center of research in thrombosis--Role of aspirin, other anti-platelet agents in platelet function (rat, human).

P50HL-14147-0B 0003 (SRC) JACKSON, CRAIG M. Specialized center of research in thrombosis--Surface thrombogenicity and phospholipid vesicle physical properties.

P50HL-14147-08 0006 (SRC) SHERMAN, LAURENCE A. Specialized center of research in thrombosis--Clearance mechanisms of coagulation moieties (human, rabbits, rodents).

P50HL-14147-0B 0007 (SRC) WELCH, MICHAEL J. Specialized center of research in thrombosis--Radioactive tracers in recognition of intravascular coagulation (human, dogs).

P50HL-14147-08 0012 (SRC) 8AENZIGER, NANCY L. Specialized center of research in thrombosis--Tissue culture study of arterial cells (human, hamster).

P50HL-14147-08 0013 (SRC) ELLIOT, DAVID L. Specialized center of research in thrombosis--Mathematical models of blood coagulation kinetics.

P50HL-14147-0B 0014 (SRC) A8RAHAM-SHRAUNER, BAR8ARA. Specialized center of research in thrombosis--Theoretical models for electrostatic effects in blood clot formation.

P50HL-14147-08 0015 (SRC) PICKARD, WILLIAM F. Specialized center of research in thrombosis--Charge related properties of phospholipid surfaces in monolayers and vesicles.

P50HL-14147-08 0016 (SRC) SIEGEL, BARRY A. Specialized center of research in thrombosis--Nuclear medicine core laboratory (human, dogs, rats, rabbits).

P50HL-14147-08 0017 (SRC) JOI5T, JOHANN H. Specialized center of research in thrombosis--Core coagulation laboratory (human).

P50HL-14147-08 0018 (SRC) DEUEL, THOMAS F. Specialized center of research in thrombosis--Biochemical aspects of platelet function in thrombosis and cell growth (human).

R01HL-14148-07 (RAD) CANNON, PAUL J, COLUMBIA UNIVERSITY, 630 WEST 168TH STREET, NEW YORK, N Y. The regional circulations.

R01HL-14148-07 0002 (RAD) LEVITT, MORTON. The regional circulations--Catecholamine metabolism in subtypes of hypertension (human, animals).

R01HL-14148-07 0004 (RAD) SPALTER, HAROLD F. The regional circulations--Funduscopic mapping by photography (human).

R01HL-1414B-07 0007 (RAD) WOTMAN, STEPHEN. The regional circulations--Salivary composition in hypertension (human).

R01HL-14148-07 000B (RAD) CANNON, PAUL J. The regional circulations--Renal circulation in hypertensive patients (also dogs).

R01HL-1414B-07 0009 (RAD) CANNON, PAUL J. The regional circulations--Myocardial circulation in hypertension and atherosclerosis (human).

P50HL-14153-07 (SRC) MENKES, HAROLD A, JOHNS HOPKINS UNIVERSITY, JOHNS HOPKINS LUNG CENTER--CHR, BALTIMORE, MO. Johns Hopkins Lung Center--Chronic diseases of airways.

P50HL-14153-07 0001 (SRC) COHEN, 8ERNICE H. Johns Hopkins Lung Center--Chronic diseases of airways--Genetic and environmental factors in chronic pulmonary disease (human).

P50HL-14153-07 0004 (5RC) DANNEN8ERG, ARTHUR M. Johns Hopkins Lung Center--Chronic diseases of airways--Macrophage enzymes in lung injury, inflammation and repair (rabbit).

P50HL-14153-07 0010 (5RC) TOCKMAN, MELVYN S. Johns Hopkins Lung Center--Chronic diseases of airways--Risk factors for airways obstruction in a rural community (human).

P50HL-14153-07 0011 (SRC) NORMAN, PHILIP S. Johns Hopkins Lung Center--Chronic diseases of airways--Allergy, airways reactivity and asthma in human ragweed allergy.

P50HL-14153-07 0012 (SRC) ADKINSON, N FRANKLIN. Johns Hopkins Lung Center--Chronic diseases of airways--Aspirin intolerance in reversible lung disease (human).

P50HL-14153-07 0013 (SRC) ADAMS, G KENNETH. Johns Hopkins Lung Center--Chronic diseases of airways--Pulmonary mechanics and mediators of allergic reactions (guinea pigs, human).

P50HL-14153-07 0014 (SRC) LICHTENSTEIN, LAWRENCE M. Johns Hopkins Lung Center--Chronic diseases of airways--Mediator release in asthma (human).

P50HL-14153-07 0015 (SRC) NEWBALL, HAROLD H. Johns Hopkins Lung Center--Chronic diseases of airways--Kinins and human lung.

P50HL-14153-07 0016 (SRC) PROCTOR, DONALD F. Johns Hopkins Lung Center--Chronic diseases of airways--Airways defense mechanisms (dogs).

P50HL-14153-07 0017 (SRC) TRAYSTMAN, RICHARD J. Johns Hopkins Lung Center--Chronic diseases of airways--Collateral ventilation and pulmonary interdependence (pig, dog, human).

P50HL-14153-07 001B (SRC) PERMUTT, SOLBERT. Johns Hopkins Lung Center--Chronic diseases of airways--Pulmonary function core.

P50HL-14153-07 0019 (SRC) HUTCHINS, GROVER M. Johns Hopkins Lung Center--Chronic diseases of airways--Pathology core (human, animal).

P50HL-14159-08 (SRC) WEIN8ERGER, MYRON H, INOIANA UNIVERSITY, 1100 WEST MICHIGAN STREET, INOIANAPOLIS, INO. Specialized center of research in hypertension.

P50HL-14159-08 000B (SRC) WILLIS, LYNN R. Specialized center of research in hypertension--Renal function and sodium metabolism in hypertension (rats, human, rabbits).

P50HL-14159-0B 001B (SRC) WATANA8E, AUGUST M. Specialized center of research in hypertension--Sympathetic nervous system in hypertension (rats).

P50HL-14159-0B 0020 (SRC) WEIN8ERGER, MYRON H. Specialized center of research in hypertension--Renin-mineralocorticoid system in hypertension (human, rat, dog).

P50HL-14159-0B 0021 (SRC) GRIM, CLARENCE E. Specialized center of research in hypertension--Genetic studies of the physiology of hypertension (human, rats).

P50HL-14159-0B 0022 (SRC) WEINBERGER, MYRON H. Specialized center of research in hypertension--Core laboratory.

P50HL-14159-08 0023 (SRC) GRIM, CLARENCE E. Specialized center of research in hypertension--Core computation.

P50HL-14159-0B 0024 (SRC) GRIM, CLARENCE E. Specialized center of research in hypertension--Core resources (clinical, animal models).

P50HL-14164-07 (HLBA) CLARKSON, THOMAS B, WAKE FOREST UNIVERSITY, BOWMAN GRAY SCHOOL OF MED, WINSTON-SALEM, N C. A/S SCOR--Comparative and experimental atherosclerosis.

P50HL-14164-07 0025 (HL8A) LEHNER, NOEL D M. A/S SCOR--Comparative and experimental atherosclerosis--Animal care resource and laboratory animal medicine unit (monkeys, pigeons).

P50HL-14164-07 0026 (HL8A) 8ULLOCK, BILL C. A/S SCOR--Comparative and experimental atherosclerosis--Comparative pathology unit (pigeons, monkeys).

P50HL-14164-07 0027 (HL8A) CLARKSON, THOMAS B. A/S SCOR--Comparative and experimental atherosclerosis--Hyper- and hyporesponsiveness to dietary cholesterol (squirrel monkey).

P50HL-14164-07 002B (HL8A) CLARKSON, THOMAS B. A/S SCOR--Comparative and experimental atherosclerosis--Hyper- and hyporesponsiveness to dietary cholesterol (African green monkey).

P50HL-14164-07 0029 (HLBA) WAGNER, WILLIAM D. A/S SCOR--Comparative and experimental atherosclerosis--Oevelopment of pigeon substrains.

P50HL-14164-07 0030 (HLBA) TRILLO, AL8ERTO. A/S SCOR--Comparative and experimental atherosclerosis--Morphology, angiochemistry--Diet induced lesions in African green monkey.

P50HL-14164-07 0031 (HL8A) 8OND, M GENE. A/S SCOR--Comparative and experimental atherosclerosis--Changes in endothelial permeability associated with atherosclerosis (pigeon).

P50HL-14164-07 0032 (HL8A) CLARKSON, THOMAS B. A/S SCOR--Comparative and experimental atherosclerosis--Plasma cholesterol, lesion regression and vascular function (Rhesus monkey).

P50HL-14164-07 0033 (HLBA) RUDEL, LAWRENCE L. A/S SCOR--Comparative and experimental atherosclerosis--Comparative studies of lipoprotein distribution and metabolism (monkeys).

P50HL-14164-07 0034 (HL8A) STCLAIR, RICHARD W. A/S SCOR--Comparative and experimental atherosclerosis--Core lipid analytic laboratory.

P50HL-14164-07 0035 (HL8A) STCLAIR, RICHARD W. A/S SCOR--Comparative and experimental atherosclerosis--Lipid metabolism--Interaction with arterial metabolism (monkey, pigeon).

P50HL-14164-07 0036 (HL8A) STCLAIR, RICHARD W. A/S SCOR--Comparative and experimental atherosclerosis--Connective tissue metabolism--Interaction with arterial metabolism (monkeys).

P50HL-14164-07 0037 (HL8A) STCLAIR, RICHARD W. A/S SCOR--Comparative and experimental atherosclerosis--Genetic control of plasma cholesterol--Interaction of dietary fatty acid (monkey).

P50HL-14164-07 003B (HLBA) GREEN, HAROLD D. A/S SCOR--Comparative and experimental atherosclerosis--Peripheral vascular studies--Cholesterol, lesion regression, vascular function.

P50HL-14164-07 0039 (HL8A) RHYNE, A LEONARD. A/S SCOR--Comparative and experimental atherosclerosis--Statistical resource and research management unit.

P50HL-14164-07 0040 (HLBA) WAGNER, WILLIAM D. A/S SCOR--Comparative and experimental atherosclerosis--Core angiochemistry laboratory.

P50HL-14164-07 0041 (HLBA) CLARKSON, THOMAS B. A/S SCDR--Comparative and experimental atherosclerosis--Nonhuman primate pediatric atherosclerosis risk factor.

P50HL-14164-07 0042 (HLBA) LEHNER, NOEL D M. A/S SCDR--Comparative and experimental atherosclerosis--Comparative cardiology laboratory (monkeys).

P50HL-14164-07 0043 (HLBA) LEWIS, JON C. A/S SCDR--Comparative and experimental atherosclerosis--Electron microscopy resource laboratory.

P50HL-14164-07 0044 (HLBA) LEWIS, JON C. A/S SCDR--Comparative and experimental atherosclerosis--Cell biology-atherosclerosis project (pigeons).

P50HL-14187-07 (SRC) SAID, SAMI I, UNIVERSITY OF TEXAS, 4500 S LANCASTER RDAD, DALLAS, TEX. Pulmonary SCDR--Chemical mediators in pulmonary vascular responses.

P50HL-14187-07 0005 (SRC) MULLINS, CHARLES B. Pulmonary SCDR--Chemical mediators in pulmonary vascular responses--Pulmonary hypertension and cardiac function (dogs, human).

P50HL-14187-07 000B (SRC) WILSON, JAMES E, III. Pulmonary SCDR--Chemical mediators in pulmonary vascular responses--Pulmonary thromboembolism (dogs, human).

P50HL-14187-07 0012 (SRC) SAID, SAMI I. Pulmonary SCDR--Chemical mediators in pulmonary vascular responses--Vasoactive mediators in pulmonary disease (human, animal).

P50HL-14187-07 0014 (SRC) ERDOS, ERVIN G. Pulmonary SCDR--Chemical mediators in pulmonary vascular responses--Metabolism and actions of vasoactive peptides in lung (human, mammals).

P50HL-14187-07 0015 (SRC) JOHNSON, ROBERT L. Pulmonary SCDR--Chemical mediators in pulmonary vascular responses--Pathophysiologic responses of pulmonary capillary bed (dog, human).

P50HL-14187-07 0016 (SRC) REYNOLDS, ROLLAND C. Pulmonary SCDR--Chemical mediators in pulmonary vascular responses--Core pathology service (dogs, rabbits, human).

P50HL-14192-08 (SRC) ALEXANDER, OATES J, VANDERBILT UNIVERSITY, DEPT DF PHARMACOLOGY, NASHVILLE, TENN Specialized center of research in hypertension.

P50HL-14192-08 0001 (SRC) SHANO, OAVIO G. Specialized center of research in hypertension--Surgical and medical treatment of renovascular hypertension (human).

P50HL-14192-08 0002 (SRC) DEAN, RICHARO H. Specialized center of research in hypertension--Hypertensive patients with renal artery stenosis.

P50HL-14192-08 0003 (SRC) FROLICH, JURGEN C. Specialized center of research in hypertension--Prostaglandins as mediators of renin secretion (human, dog).

P50HL-14192-08 0004 (SRC) INAGAMI, TAOASHI. Specialized center of research in hypertension--Isolation and characterization of pure renin (swine, rats, human, rabbits).

P50HL-14192-08 0005 (SRC) HOLLIFIELO, JOHN W. Specialized center of research in hypertension--New techniques for recognition of renovascular hypertension (human, dogs).

P50HL-14192-08 0007 (SRC) SLATON, PAUL E. Specialized center of research in hypertension--Role of new mineralocorticoids in hypertension (human, rats).

P50HL-14192-08 000B (SRC) BRILL, A B. Specialized center of research in hypertension--New radiographic methods--Recognition of renovascular hypertension (human, dog).

P50HL-14197-07 (SRC) STEINBERG, OANIEL, UNIV OF CALIFDRNIA, SAN DIEGO, DEPARTMENT OF MED, M-013, LA JOLLA, CALIF. Support for center of research on arteriosclerosis.

P50HL-14197-07 000S (SRC) STEINBERG, OANIEL. Support for center of research on arteriosclerosis--Lipoprotein biosynthesis and degradation in vivo and in vitro (human, animal).

P50HL-14197-07 0006 (SRC) GRUNOY, SCOTT M. Support for center of research on arteriosclerosis--Diets and drugs affecting lipid metabolism (human).

P50HL-14197-07 0007 (SRC) GRUNOY, SCOTT M. Support for center of research on arteriosclerosis--Metabolic defects in familial hyperlipoproteinemias (human).

P50HL-14197-07 000B (SRC) WEINSTEIN, OAVIO B. Support for center of research on arteriosclerosis--Core facility--Lipoprotein preparation, immunochemistry.

P50HL-14212-07 (SRC) LOW, ROBERT B, UNIVERSITY DF VERMONT, DEPARTMENT DF PHYSIOLDGY, BURLINGTON, VT. Correlated studies of pulmonary fibrosis.

P50HL-14212-07 0001 (SRC) GRAHAM, WILLIAM G. Correlated studies of pulmonary fibrosis--Clinical studies core.

P50HL-14212-07 0004 (SRC) KELLEHER, PHILIP C. Correlated studies of pulmonary fibrosis--Collagen metabolism in lung tissue and lung cells (human, animal).

P50HL-14212-07 0006 (SRC) DAVIS, GERALD S. Correlated studies of pulmonary fibrosis--Alveolar macrophage physiology (human, rodents, rabbits).

P50HL-14212-07 0007 (SRC) LOW, ROBERT B. Correlated studies of pulmonary fibrosis--Protein metabolism in alveolar macrophages (rabbits, guinea pigs, human).

P50HL-14212-07 0011 (SRC) CRAIGHEA0, JOHN E. Correlated studies of pulmonary fibrosis--Pathology core (human, animal).

P50HL-14212-07 0012 (SRC) CRAIGHEAD, JOHN E. Correlated studies of pulmonary fibrosis--Inorganic particulates in tobacco, smoke and lungs of cigarette smokers (human).

P50HL-14212-07 0013 (SRC) HART, BETH A. Correlated studies of pulmonary fibrosis--Mechanism of beryllium pathogenicity in the lung (human, rabbit, guinea pig).

P50HL-14212-07 0014 (SRC) OAVIS, GERALD S. Correlated studies of pulmonary fibrosis--Pulmonary lavage cells, secretions in diffuse intersititial lung disease (human).

P50HL-14212-07 0015 (SRC) HEMENWAY, OAVIO. Correlated studies of pulmonary fibrosis--Pulmonary defense mechanisms and fibrotic lung disease (rodents, rabbits).

P50HL-14212-07 0016 (SRC) ABSHER, P MARLENE. Correlated studies of pulmonary fibrosis--Role of pulmonary alveolar macrophages in fibrosis (human, rabbit).

P50HL-14212-07 0017 (SRC) SYLWESTER, OAVIO L. Correlated studies of pulmonary fibrosis--Biometry core.

P50HL-14214-07 (SRC) STAHLMAN, MILDREO T, VANDERBILT UNIVERSITY, DEPARTMENT DF PEDIATRICS, NASHVILLE, TENN. Newborn lung center for hyaline membrane disease.

P50HL-14214-07 0012 (SRC) SNELL, JAMES D. Newborn lung center for hyaline membrane disease--Pulmonary status of children who had HMD as infants.

P50HL-14214-07 0013 (SRC) BUCHANAN, OENTON C. Newborn lung center for hyaline membrane disease--Developmental outcome of children who had HMD as infants.

P50HL-14214-07 0015 (SRC) MENG, H C. Newborn lung center for hyaline membrane disease--Hormone effect on cyclic nucleotide lipid synthesis in developing lung (animal).

P50HL-14214-07 0020 (SRC) ORTH, DAVID N. Newborn lung center for hyaline membrane disease--Epidermal growth factor effect--Lung differentiation, maturation (human, rabbit).

P50HL-14214-07 0021 (SRC) LEQUIRE, VIRGIL S. Newborn lung center for hyaline membrane disease--Development of surfactant system--Surfactant production and release (rat, rabbit).

P50HL-14214-07 0022 (SRC) GRAY, MARY E. Newborn lung center for hyaline membrane disease--Functional integrity of surfactant system--Hyaline membrane disease (lamb, rat).

P50HL-14214-07 0023 (SRC) CHYTIL, FRANK. Newborn lung center for hyaline membrane disease--Regulation of fetal lung maturation--Vitamin A (rat, rabbit, sheep, human).

P50HL-14214-07 0024 (SRC) ORTH, DAVID N. Newborn lung center for hyaline membrane disease--Synthesis and receptors for ACTH in fetal lung (human).

P50HL-14214-07 002S (SRC) BRIGHAM, KENNETH L. Newborn lung center for hyaline membrane disease--Pulmonary vascular permeability and lung water--Hyaline membrane disease (sheep).

P50HL-14214-07 0026 (SRC) SUNDELL, HAKAN. Newborn lung center for hyaline membrane disease--Hemodynamic studies of HMD--Prostaglandins production and blockers (lambs).

P50HL-14214-07 0027 (SRC) STAHLMAN, MILDRED T. Newborn lung center for hyaline membrane disease--Oral-laryngeal chemoreceptors and respiratory failure in newborns (human, sheep).

P50HL-14214-07 002B (SRC) GREEN, HARRY L. Newborn lung center for hyaline membrane disease--Relationship of trace metals to respiratory failure (dog, sheep, human).

P50HL-14214-07 0029 (SRC) SUNOELL, HAKAN. Newborn lung center for hyaline membrane disease--The diving reflex--Perinatal asphyxia, pulmonary ischemia and HMD (sheep).

P50HL-14214-07 0030 (SRC) COTTON, ROBERT B. Newborn lung center for hyaline membrane disease--Effects of ductal patency--Impedance cardiography and echocardiography (human).

P50HL-14214-07 0031 (SRC) LAMBERTH, EOWIN L. Newborn lung center for hyaline membrane disease--Essential fatty acid deficiency and HMD (human).

P50HL-14214-07 0032 (SRC) STAHLMAN, MILOREO T. Newborn lung center for hyaline membrane disease--Evoked electroencephalographic potential in infants with HMD (human).

P50HL-14214-07 0033 (SRC) COTTON, ROBERT B. Newborn lung center for hyaline membrane disease--Statistical modeling, predictive classification in clinical management of HMD.

P50HL-14214-07 0034 (SRC) STAHLMAN, MILORED T. Newborn lung center for hyaline membrane disease--Core--Newborn intensive care unit.

P50HL-14214-07 003S (SRC) SUNOELL, HAKAN. Newborn lung center for hyaline membrane disease--Core--Animal care facility.

P50HL-14214-07 0036 (SRC) COTTON, ROBERT B. Newborn lung center for hyaline membrane disease--Core--Biomedical engineering.

P50HL-14214-07 0037 (SRC) LEQUIRE, VIRGIL S. Newborn lung center for hyaline membrane disease--Core--Histopathology laboratories.

P50HL-14217-08 (SRC) SHERRY, SOL, TEMPLE UNIVERSITY, 3400 N BROAD STREET, PHILADELPHIA, PA. Specialized center of research in thrombosis.

P50HL-14217-08 0048 (SRC) BUOZYNSKI, ANOREI Z. Specialized center of research in thrombosis--Fibrinolysis section--Structural studies (human, animal).

P50HL-14217-08 0049 (SRC) MARDER, VICTOR J. Specialized center of research in thrombosis--Fibrinolysis section--Clinical studies.

P50HL-14217-08 00S0 (SRC) STEWART, GWENDOLYN J. Specialized center of research in thrombosis--Electron microscopy section (dogs).

P50HL-14217-0B 00S1 (SRC) WIEOEMAN, MARY P. Specialized center of research in thrombosis--Microcirculation section (bat, hamster).

P50HL-14217-08 00S2 (SRC) MALMUD, LEON S. Specialized center of research in thrombosis--Radioisotope nuclear medicine section (human, dog).

P50HL-14217-0B 00S4 (SRC) NIEWIAROWSKI, STEFAN. Specialized center of research in thrombosis--Coagulation section--Platelet aggregation (human, pig, rabbit, dog).

P50HL-14217-0B 0055 (SRC) WALSH, PETER N. Specialized center of research in thrombosis--Coagulation section--Platelet coagulant activity (human).

P50HL-14217-0B 0057 (SRC) SALGANICOFF, LEON. Specialized center of research in thrombosis--Pharmacology--Platelet biochemistry (human, animal).

P50HL-14217-08 00S8 (SRC) MILLS, DAVID C B. Specialized center of research in thrombosis--Mechanisms of induction and inhibition of platelet reaction (human, pig).

P50HL-14217-08 0059 (SRC) HOLMSEN, HOLM. Specialized center of research in thrombosis--Energy metabolism and platelet function (human).

P50HL-14217-0B 0061 (SRC) HARAKAL, CONCETTA. Specialized center of research in thrombosis--Pharmacology--Comparison of platelets and vascular smooth muscle (animal).

P50HL-14217-0B 0062 (SRC) KIRBY, EOWARO P. Specialized center of research in thrombosis--Coagulation section--Factor VIII and Factor XII (human, cattle).

P50HL-14217-08 0063 (SRC) WALSH, PETER N. Specialized center of research in thrombosis--Special clinical studies laboratory.

P50HL-14218-07 (HLBA) JAMES, L STANLEY, COLL DF PHYSICIANS & SURG, 630 WEST 168TH STREET, NEW YORK, N Y. Pulmonary SCDR--Newborn lung center.

P50HL-1421B-07 0004 (HLBA) WINTERS, ROBERT W. Pulmonary SCOR--Newborn lung center--Metabolism of infants with respiratory distress syndrome (human).

P50HL-14218-07 000S (HLBA) SPRUNT, KATHARINE. Pulmonary SCDR--Newborn lung center--Prevention of infection in infants with respiratory distress (human).

P50HL-14218-07 0006 (HL8A) MANDL, INES. Pulmonary SCOR--Newborn lung center--Biochemical characteristics of the lung in ROS (human, sheep).

P50HL-14218-07 0011 (HL8A) JAMES, L STANLEY. Pulmonary SCOR--Newborn lung center--Administrative and computer core.

P50HL-14218-07 0012 (HL8A) JAMES, L STANLEY. Pulmonary SCOR--Newborn lung center--Longitudinal study of ROS--On-line fetal and neonatal monitoring (human).

P50HL-14218-07 0013 (HL8A) INDYK, LEONARD. Pulmonary SCOR--Newborn lung center--Longitudinal study of ROS--Monitoring fetal P02 and PC02 during labor (human).

P50HL-14218-07 0014 (HL8A) YEH, MING-NENG. Pulmonary SCOR--Newborn lung center--Longitudinal study of ROS--Monitoring fetal breathing movements (human).

P50HL-14218-07 0015 (HL8A) DRISCOLL, JOHN M, JR. Pulmonary SCOR--Newborn lung center--Long term follow-up of infants surviving ROS--Neurological outcome (human).

P50HL-14218-07 0017 (HL8A) MELLINS, ROBERT B. Pulmonary SCOR--Newborn lung center--Transvascular fluid exchange, vasoactive mediators in ROS (sheep, cat).

P50HL-14218-07 0018 (HL8A) DELL, RALPH B. Pulmonary SCOR--Newborn lung center--Whole body buffering in acute hypercapnia (dogs).

P50HL-14230-07 (SRC) SPECTOR, ARTHUR A, UNIVERSITY OF IOWA, 4-550 BASIC SCIENCES BLOG, IOWA CITY, IOWA. A/S SCOR--Lipids, atherosclerosis and thrombosis.

P50HL-14230-07 0088 (SRC) LAUER, RONALD M. A/S SCOR--Lipids, atherosclerosis and thrombosis--Coronary risk factors in school children--The Muscatine study.

P50HL-14230-07 0092 (SRC) SPECTOR, ARTHUR A. A/S SCOR--Lipids, atherosclerosis and thrombosis--Tissue lipids--Cell culture studies (human).

P50HL-14230-07 0093 (SRC) BURNS, CHARLES P. A/S SCOR--Lipids, atherosclerosis and thrombosis--Clinical studies involving cellular lipid content (human).

P50HL-14230-07 0094 (SRC) ARMSTRONG, MARK L. A/S SCOR--Lipids, atherosclerosis and thrombosis--Studies of atherosclerosis and regression (monkeys).

P50HL-14230-07 009S (SRC) HOAK, JOHN C. A/S SCOR--Lipids, atherosclerosis and thrombosis--Blood platelet adherence to endothelial smooth muscle cells, fibroblast (human).

P50HL-14230-07 0096 (SRC) HOAK, JOHN C. A/S SCOR--Lipids, atherosclerosis and thrombosis--Ultrastructural studies of endothelial cells (human).

P50HL-14230-07 0097 (SRC) HOAK, JOHN C. A/S SCOR--Lipids, atherosclerosis and thrombosis--Studies of circulating platelet aggregates (human).

P50HL-14230-07 0098 (SRC) PENICK, GEORGE D. A/S SCOR--Lipids, atherosclerosis and thrombosis--Molecular properties of factor VIII (cattle, human, mice).

P50HL-14230-07 0099 (SRC) PENICK, GEORGE D. A/S SCOR--Lipids, atherosclerosis and thrombosis--Morphological, cytochemical study of normal and altered vasculature (mice).

P50HL-14230-07 9001 (SRC) WIEBE, DONALD A. A/S SCOR--Lipids, atherosclerosis and thrombosis--Core lipid laboratory.

P50HL-14230-07 9002 (SRC) DEBAULT, LAWRENCE E. A/S SCOR--Lipids, atherosclerosis and thrombosis--Core tissue culture laboratory.

P50HL-14236-05 (SRC) AHRENS, EDWARD H, JR, ROCKEFELLER UNIVERSITY, 66TH STREET AND YORK AVENUE, NEW YORK, N Y. Prevention of premature arteriosclerosis.

P50HL-14236-05 0001 (SRC) GOODMAN, DEWITT S. Prevention of premature arteriosclerosis--Metabolism and transport of cholesterol and vitamin A (human, rats).

P50HL-14236-05 0002 (SRC) CANNON, PAUL J. Prevention of premature arteriosclerosis--Myocardial blood flow in patients with coronary artherosclerosis.

P50HL-14236-05 0003 (SRC) NOSSEL, HYMIE L. Prevention of premature arteriosclerosis--Intravascular clotting in patients with hyperlipidemia.

P50HL-14236-05 0004 (SRC) EDER, HOWARD A. Prevention of premature arteriosclerosis--Plasma lipoproteins (human, rats).

P50HL-14236-05 0005 (SRC) DEMING, QUENTIN B. Prevention of premature arteriosclerosis--Genetically hyperlipidemic and hypolipidemic rats.

P50HL-14236-05 0006 (SRC) EDER, HOWARD A. Prevention of premature arteriosclerosis--Carbohydrate metabolism and hypertriglyceridemia (human).

P50HL-14236-05 0007 (SRC) FRANK, CHARLES. Prevention of premature arteriosclerosis--Exercise stress testing hyperlipoproteinemia (human).

P50HL-14236-05 0008 (SRC) BLUMENFELD, OLGA. Prevention of premature arteriosclerosis--Lipoproteins of cell membranes (human).

P50HL-14236-05 0009 (SRC) AHRENS, EDWARD H, JR. Prevention of premature arteriosclerosis--Clinical studies on cholesterol metabolism (human).

P50HL-14236-05 0010 (SRC) CORNFIELD, JEROME. Prevention of premature arteriosclerosis--Computer programs.

P50HL-14236-05 0011 (SRC) SAMUEL, P. Prevention of premature arteriosclerosis--Nutritional program.

P50HL-14236-05 0012 (SRC) INSULL, W. Prevention of premature arteriosclerosis--Automated lipid analysis.

P50HL-14236-05 0013 (SRC) HYMAN, MARTIN D. Prevention of premature arteriosclerosis--Patient compliance.

P50HL-14237-07 (SRC) HAVEL, RICHARD J, UNIVERSITY OF CALIFORNIA, 1315-MOFFITT HOSPITAL, SAN FRANCISCO, CALIF. Support for arteriosclerosis center.

P50HL-14237-07 0001 (SRC) HAVEL, RICHARD J. Support for arteriosclerosis center--Role of apolipoproteins in lipoprotein catabolism (human, rats).

P50HL-14237-07 0002 (SRC) FIELDING, CHRISTOPHER J. Support for arteriosclerosis center--Interactions of lipoprotein particles with vascular surface (human, rat).

P50HL-14237-07 0003 (SRC) KANE, JOHN P. Support for arteriosclerosis center--Structure of lipoproteins and apolipoproteins (human, rabbits).

P50HL-14237-07 0004 (SRC) HAMILTON, ROBERT L. Support for arteriosclerosis center--Synthesis, secretion of normal, abnormal plasma lipoproteins (rodents, monkeys).

P50HL-14237-07 0005 (SRC) HAVEL, RICHARD J. Support for arteriosclerosis center--Genetic determinants of apolipoprotein variability in lipoproteins (human).

P50HL-14237-07 0006 (SRC) KANE, JOHN P. Support for arteriosclerosis center--Drug treatment of familial hyperbetalipoproteinemia (human).

P50HL-14237-07 0007 (SRC) HAVEL, RICHARD J. Support for arteriosclerosis center--Core laboratories.

R01HL-14262-07 (PTHA) JANOFF, AARON, SUNY AT STONY BROOK, SCH OF BASIC HEALTH SCIENCES, STONY BROOK, N Y. Leukocyte proteases and their lung targets (human, dogs, rabbits).

R01HL-14271-07 (88C8) LITT, MITCHELL, UNIVERSITY OF PENNSYLVANIA, 383 TOWNE BUILDING/03, PHILADELPHIA, PA. Physico-chemical properties of tracheal mucus (dogs, frogs).

R01HL-14306-07 (CV8) COWLEY, ALLEN W, JR, UNIVERSITY OF MISSISSIPPI, 2500 N STATE STREET, JACKSON, MISS. Quantification of arterial pressure control (dogs).

R01HL-14313-07 (MET) QUARFORDT, STEVEN H, VETERANS ADMINISTRATION HOSP, ROOM EB07, DURHAM, N C. Apoproteins of triglyceride rich lipoproteins (human, squirrel monkeys, rats).

R01HL-14344-07 (HEM) MORIN, ROBERT J, HARBOR GENERAL HOSPITAL, 1124 W CARSON STREET, TORRANCE, CALIF. Platelet function and adenine nucleotide metabolism (human).

R01HL-14378-07 (SGYA) BARBORIAK, JOSEPH J, MEDICAL COLLEGE OF WISCONSIN, 561 NORTH 15TH STREET, MILWAUKEE, WIS. Lipemias and reconstructive cardiac surgery (human).

P01HL-14388-07 (HEPA) ABBOUD, FRANCOIS M, UNIVERSITY OF IOWA, COLLEGE OF MEDICINE, IOWA CITY, IOWA. Regulation of the circulation in pathological states.

P01HL-14388-07 01S1 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Catecholamine release in potassium ion-free contractures in the caudal artery.

P01HL-14388-07 0152 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Ion flux alterations in caudal artery in SHR.

P01HL-14388-07 0153 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Subcellular distribution of calcium (rats).

P01HL-14388-07 0154 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Energetics of smooth muscle contraction (rats).

P01HL-14388-07 015S (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Cardiopulmonary afferent activity, carotid chemo-baroreceptor reflexes.

P01HL-14388-07 0156 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Blood pressure with drinking to intracranial angiotensin II injections (rats).

P01HL-14388-07 0157 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Autoregulation of renal blood flow and distribution in sodium excretion control.

P01HL-14388-07 0158 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Developmental aspect of abnormal vascular reactivity (rats).

P01HL-14388-07 0159 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Early drug and diet interventions and blood pressure development (rats).

P01HL-14388-07 0160 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Mechanism of the antihypertensive effect of training (rats).

P01HL-14388-07 0161 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Heterogeneity of left ventricular perfusion in awake dogs.

P01HL-14388-07 0162 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Phasic coronary flow and myocardial perfusion in aortic regurgitation (dogs).

P01HL-14388-07 0163 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Adrenergic receptors in coronary vessels (dogs).

P01HL-14388-07 0164 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Hyperkinetic heart syndrome (human).

P01HL-14388-07 0165 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Vascular resistance in experimental atherosclorosis in Rhesus monkeys.

P01HL-14388-07 0166 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Elastic changes in abdominal aorta with atherosclerosis (Rhesus monkeys).

P01HL-14388-07 0167 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Increased reactivity of artery vascular muscle in spontaneously hypertensive rat.

P01HL-14388-07 0168 (HEPA) HERMSMEYER, KENT. Regulation of the circulation in pathological states--Ionic basis of depolarization (rats, tissue culture).

P01HL-14388-07 0172 (HEPA) ROSKOSKI, ROBERT, JR. Regulation of the circulation in pathological states--cAMP-dependent protein kinase from heart and vascular smooth muscle (guinea pigs).

P01HL-14388-07 0173 (HEPA) SWENSON, CHARLES A. Regulation of the circulation in pathological states--Mechanisms of cardiac myosin ATPase.

P01HL-14388-07 017S (HEPA) STELLWAGEN, EARLE. Regulation of the circulation in pathological states--Functional studies of selected proteins from cardiac muscle.

P01HL-14388-07 0178 (HEPA) VAN ORDEN, L S, III. Regulation of the circulation in pathological states--Structural and functional consequences of denervation (rats).

P01HL-14388-07 0179 (HEPA) HERMSMEYER, KENT. Regulation of the circulation in pathological states--Cultured muscle cells and their cross-innervation in vitro (rats, sheep).

P01HL-14388-07 0180 (HEPA) HEISTAD, DONALD D. Regulation of the circulation in pathological states--Regulation of cerebral blood flow (dogs, monkeys).

P01HL-14388-07 0183 (HEPA) SCHMID, PHILLIP G. Regulation of the circulation in pathological states--Vasopressin in cardiovascular regulation (dogs, rats).

P01HL-14388-07 0184 (HEPA) MARK, ALLYN L. Regulation of the circulation in pathological states--Vestibular reflexes in control of circulation (human).

P01HL-14388-07 018S (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Reflex control of venous tone (human, rabbits, dogs).

P01HL-14388-07 0186 (HEPA) MARK, ALLYN L. Regulation of the circulation in pathological states--Angiotension in modulation of neurogenic vasoconstriction.

P01HL-14388-07 0187 (HEPA) BROOY, MICHAEL J. Regulation of the circulation in pathological states-Histamine and circulatory control.

P01HL-14388-07 0188 (HEPA) SMITH, FREO G, JR. Regulation of the circulation in pathological states-Renin-angiotensin system in the sheep fetus.

P01HL-14388-07 0190 (HEPA) WILLIAMSON, HAROLD E. Regulation of the circulation in pathological states-Mechanisms of the renal actions of aldosterone (rats).

P01HL-14388-07 0191 (HEPA) STEINMETZ, PHILIP R. Regulation of the circulation in pathological states-Regulation of chloride transport in epithelial membranes (turtles).

P01HL-14388-07 0192 (HEPA) OI BONA, GERALD F. Regulation of the circulation in pathological states-Renal tubular secretion of magnesium (rats).

P01HL-14388-07 0193 (HEPA) BHATNAGAR, RANBIR K. Regulation of the circulation in pathological states--Ontogenesis of central nervous system amines in hypertension (rats).

P01HL-14388-07 0194 (HEPA) VAN OROEN, L S, III. Regulation of the circulation in pathological states--Oopamine-beta-hydroxylase localization and release in hypertension.

P01HL-14388-07 0195 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--General review of potential pathophysiologic factors in spontaneous hypertension.

P01HL-14388-07 0196 (HEPA) BROOY, MICHAEL J. Regulation of the circulation in pathological states-Altered vascular responsiveness in spontaneous hypertension (rats).

P01HL-14388-07 0197 (HEPA) BRODY, MICHAEL J. Regulation of the circulation in pathological states--Altered vascular reactivity in pathogenesis of spontaneous hypertension (rats).

P01HL-14388-07 0198 (HEPA) BRODY, MICHAEL J. Regulation of the circulation in pathological states--Humoral factors in vascular reactivity in spontaneously hypertensive rats.

P01HL-14388-07 0199 (HEPA) BROOY, MICHAEL J. Regulation of the circulation in pathological states--Adrenergic stimulation in spontaneously hypertensive rats.

P01HL-14388-07 0201 (HEPA) BRODY, MICHAEL J. Regulation of the circulation in pathological states--Central sympathetic discharge in spontaneously hypertensive rats.

P01HL-14388-07 0202 (HEPA) BROOY, MICHAEL J. Regulation of the circulation in pathological states--Oevelopment of hypertension in spontaneously hypertensive rats.

P01HL-14388-07 0203 (HEPA) BRODY, MICHAEL J. Regulation of the circulation in pathological states--Activation of sympathetic nervous systems in spontaneously hyperactive rats.

P01HL-14388-07 0204 (HEPA) BRODY, MICHAEL J. Regulation of the circulation in pathological states--Reflex control of vascular resistance in spontaneously hypertensive rats.

P01HL-14388-07 0205 (HEPA) BRODY, MICHAEL J. Regulation of the circulation in pathological states--Pathogenesis of hypertension in spontaneously hypertensive rats.

P01HL-14388-07 0207 (HEPA) PHILLIPS, M IAN. Regulation of the circulation in pathological states--Brain and renin-angiotension interaction in spontaneous hypertension (rats).

P01HL-14388-07 0208 (HEPA) ECKBERG, DWAIN L. Regulation of the circulation in pathological states--Baroreceptor reflex function in normal and hypertensive man.

P01HL-14388-07 0209 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Neural regulation of vascular resistance in human hypertension.

P01HL-14388-07 0210 (HEPA) MARK, ALLYN L. Regulation of the circulation in pathological states--Effects of dietary sodium on blood pressure and vascular reactivity.

P01HL-14388-07 0211 (HEPA) ROSKOSKI, ROBERT, JR. Regulation of the circulation in pathological states--Choline acetyltransferase activity (rats).

P01HL-14388-07 0212 (HEPA) VAN ORDEN, L S, III. Regulation of the circulation in pathological states--Role of dopamine in autonomic activity.

P01HL-14388-07 0213 (HEPA) SCHMID, PHILLIP G. Regulation of the circulation in pathological states--Regulation of the heart and peripheral circulation in heart failure.

P01HL-14388-07 0214 (HEPA) RIM, KWAN. Regulation of the circulation in pathological states--Oeformation pattern and stress analysis of the left ventricle.

P01HL-14388-07 0215 (HEPA) FALSETTI, HERMAN L. Regulation of the circulation in pathological states--Left ventricle model in pathophysiologic states.

P01HL-14388-07 0216 (HEPA) MARCUS, MELVIN L. Regulation of the circulation in pathological states--Oevelopment and regression of ventricular hypertrophy (cats, rats).

P01HL-14388-07 0217 (HEPA) MARCUS, MELVIN L. Regulation of the circulation in pathological states--Fluid mechanics of aortic flow (dogs, human).

P01HL-14388-07 0218 (HEPA) KERBER, RICHARD E. Regulation of the circulation in pathological states--Regional myocardial dyskinesis--Cause assessment and reduction (dogs).

P01HL-14388-07 0219 (HEPA) MARCUS, MELVIN L. Regulation of the circulation in pathological states--Myocardial ischemia and infarction in animals (dogs).

P01HL-14388-07 0220 (HEPA) MARK, ALLYN L. Regulation of the circulation in pathological states--Pharmacology of the coronary circulation in man.

P01HL-14388-07 0221 (HEPA) DIANA, JOHN N. Regulation of the circulation in pathological states--Experimental myocardial infarction (dogs).

P01HL-14388-07 0222 (HEPA) OI BONA, GERALD F. Regulation of the circulation in pathological states--Renal perfusion pressure in hypertension (rats).

P01HL-14388-07 0223 (HEPA) FITZ, ANNETTE. Regulation of the circulation in pathological states--Kallikrein-kinin system in hypertension (rats).

P01HL-14388-07 0224 (HEPA) LAWTON, WILLIAM. Regulation of the circulation in pathological states--Kallikrein-kinin system in hypertension (human).

P01HL-14388-07 0225 (HEPA) WILLIAMSON, HAROLO E. Regulation of the circulation in pathological states--Release of renal prostaglandins by saluretic-diuretic agents (dogs).

P01HL-14388-07 0229 (HEPA) ABBOUO, FRANCOIS M. Regulation of the circulation in pathological states--Mechanism of postural hypotension (human).

P01HL-14388-07 0230 (HEPA) MARK, ALLYN L. Regulation of the circulation in pathological states--Effects of indomethacin in patients with carcinoid syndrome.

P01HL-14388-07 0231 (HEPA) HEISTAD, OONALO O. Regulation of the circulation in pathological states--Mechansim of cutaneous vasodilatation in Paget's disease of bone.

P01HL-14388-07 0232 (HEPA) HEISTAO, OONALO O. Regulation of the circulation in pathological states--Idiopathic cyclic edema.

P01HL-14388-07 0233 (HEPA) ARMSTRONG, MARK L. Regulation of the circulation in pathological states--Pressure-flow relationships after regression of experimental atherosclerosis.

P01HL-14388-07 0234 (HEPA) SCHMIO, PHILLIP G. Regulation of the circulation in pathological states--Effects of antiarrhythmic drugs on the autonomic system (dogs).

P01HL-14388-07 9001 (HEPA) BRODY, MICHAEL J. Regulation of the circulation in pathological states--Core facility for hypertensive animal colony (rats).

P01HL-14388-07 9002 (HEPA) VAN OROEN, DIANNA. Regulation of the circulation in pathological states--Core immunoassay laboratory (rabbits).

P01HL-14388-07 9003 (HEPA) INGRAM, F OUANE. Regulation of the circulation in pathological states--Electron probe projects.

P01HL-14388-07 9004 (HEPA) ISACSON, PETER. Regulation of the circulation in pathological states--Core biostatistics unit.

P01HL-14388-07 9005 (HEPA) ABBOUD, FRANCOIS M. Regulation of the circulation in pathological states--Core administration.

R01HL-14397-07 (PHRA) NEEDLEMAN, PHILIP, WASHINGTON UNIVERSITY, 660 SOUTH EUCLIO, ST LOUIS, MO. Hypertension--Angiotensin and prostaglandin pharmacology (animals).

P01HL-14414-07 (HEPA) RENNIE, DONALD W, S U N Y - AT BUFFALO, 122 SHERMAN HALL, BUFFALO, N Y. Environmental influences on cardiorespiratory and cellular functions.

P01HL-14414-07 0003 (HEPA) FARHI, LEON E. Environmental influences on cardiorespiratory and cellular functions--Exposure to abnormal gaseous environments (human, dogs, rabbits).

P01HL-14414-07 0004 (HEPA) PAGANELLI, CHARLES V. Environmental influences on cardiorespiratory and cellular functions--Role of diffusion in gas exchange (chicken egg).

P01HL-14414-07 0007 (HEPA) BISHOP, BEVERLY. Environmental influences on cardiorespiratory and cellular functions--Neural control of respiration (human, cats).

P01HL-14414-07 0008 (HEPA) RENNIE, DONALO W. Environmental influences on cardiorespiratory and cellular functions--Energetics of swimming (human).

P01HL-14414-07 0010 (HEPA) HOGAN, PERRY M. Environmental influences on cardiorespiratory and cellular functions--Pressure effects on cardiac electrical phenomena (animals).

P01HL-14414-07 0014 (HEPA) REEVES, ROBERT B. Environmental influences on cardiorespiratory and cellular functions--Temperature and acid-base status in tissues, cells, and subcellular system.

P01HL-14414-07 0015 (HEPA) KRASNEY, JOHN. Environmental influences on cardiorespiratory and cellular functions--Control of the cardiovascular system (dogs).

P01HL-14414-07 0016 (HEPA) PANGANELLI, C V. Environmental influences on cardiorespiratory and cellular functions--Effects of pressure on membrane and cellular function (human, rabbits).

P01HL-14414-07 9001 (HEPA) FARHI, LEON E. Environmental influences on cardiorespiratory and cellular functions--Laboratory core facility.

P01HL-14414-07 9002 (HEPA) OLSZOWKA, ALBERT J. Environmental influences on cardiorespiratory and cellular functions--Core--Computer facility.

P01HL-14414-07 9003 (HEPA) MORIN, RICHARO A. Environmental influences on cardiorespiratory and cellular functions--Machine and electronics shop--Core facility.

R01HL-14456-07 (CVA) FANBURG, BARRY L, NEW ENGLANO MEO CTR HOSPITAL, 171 HARRISON AVENUE, BOSTON, MASS. Lung metabolism--Enzymes in the pulmonary circulation (human, animals).

R01HL-14461-08 (CVB) WILLIAMSON, JOHN R, UNIVERSITY OF PENNSYLVANIA, BLOG G4, SCHOOL OF MEOICINE, PHILAOELPHIA, PA. Cardiac metabolism in heart failure (rats).

R01HL-14483-08 (BIO) HINKLE, PETER C, CORNELL UNIVERSITY, BIOCHEM, MOLECULAR & CELL BIO , ITHACA, N Y. Energy conservation in heart mitochondria (cattle, E coli, human).

R01HL-14495-05 (AFY) LEE, GEORGE C, S U N Y - AT BUFFALO, OEPT OF CIVIL ENGINEERING, BUFFALO, N Y. Solid and structural mechanics of lungs (mammals).

R01HL-14508-10 (BBCA) YONETANI, TAKASHI, UNIVERSITY OF PENNSYLVANIA, 37TH ANO HAMILTON WALK, PHILAOELPHIA, PA. Structure and function of respiratory hemoproteins.

R01HL-14509-07 (BBCB) MARSHALL, GARLANO R, WASHINGTON UNIVERSITY, 660 S EUCLIO, ST LOUIS, MO. Hypertension--Chemistry and biophysics of angiotensin.

R01HL-14523-07 (PHY) FAY, FREORIC S, UNIVERSITY OF MASSACHUSETTS, 55 LAKE AVE, NORTH, WORCESTER, MASS. Generation and regulation of force in smooth muscle (animals).

R01HL-14526-07 (CVB) FREGLY, MELVIN J, UNIVERSITY OF FLORIOA, BOX J-274 JHMHC, GAINESVILLE, FLA. Oral contraceptives and hypertension (rats).

R01HL-14529-07 (CVB) SAGAWA, KIICHI, JOHNS HOPKINS UNIVERSITY, 720 RUTLANO AVENUE, BALTIMORE, MO. Systems analysis of baroreflex (dogs).

R01HL-14545-06 (CVA) NEWMAN, WALTER H, UNIVERSITY OF SOUTH CAROLINA, 80 BARRE STREET, CHARLESTON, S C. Mechanics of compensatory ventricular hypertrophy (dogs).

R01HL-14560-07 (CVB) BUNAG, RUBEN O, UNIVERSITY OF KANSAS, 39TH ST AT RAINBOW BLVO, KANSAS CITY, KANS. Hypertension produced by sympathetic dysfunction (human, rats).

R01HL-14571-05 (SGYB) MC NAMARA, JOSEPH J, QUEEN'S MEOICAL CENTER, 1301 PUNCHBOWL STREET, HONOLULU, HAWAII. Myocardial preservation and coronary reperfusion (baboons, dogs).

P01HL-14580-07 (HEPA) MEAD, JERE, HARVARO UNIVERSITY, 665 HUNTINGTON AVENUE, BOSTON, MASS. Program project in respiratory mechanics.

P01HL-14580-07 0001 (HEPA) HOPPIN, FREDERIC G. Program project in respiratory mechanics--Micromechanics of the lung (dogs, rats).

P01HL-14580-07 0002 (HEPA) DAWSON, STANLEY V. Program project in respiratory mechanics--Airway aerodynamics (human, dogs).

P01HL-14580-07 0003 (HEPA) GOLOMAN, MICHAEL D. Program project in respiratory mechanics--Chest wall mechanics and respiratory control (human, dogs).

P01HL-145B0-07 0005 (HEPA) MEAD, JERE. Program project in respiratory mechanics--Development and evaluation of tests of pulmonary function (human).

R01HL-14595-07 (HEM) WEISS, HARVEY J, ROOSEVELT HOSPITAL, 428 WEST 59TH STREET, NEW YORK, N Y. Primary disorders of platelet function (human, rats).

R01HL-14614-07 (CVA) GIBBONS, WALTER R, UNIVERSITY OF VERMONT, GIVEN MEDICAL BUILDING, BURLINGTON, VT. Voltage control of contraction in heart (sheep).

R01HL-14637-05 (HEM) MC DONALD, TED P, UNIVERSITY OF TENNESSEE, 1924 ALCOA HIGHWAY, KNOXVILLE, TENN. Thrombopoietin--Immunoassay and characterization (mice).

R01HL-14644-05 (SGYB) CORDAY, ELIOT, CEDARS-SINAI MEDICAL CENTER, 87D0 BEVERLY BLVD, LOS ANGELES, CALIF. Optimization diastolic augmentation and systolic sink (dogs).

R01HL-14645-07 (CVA) MARTIN, ROY W, UNIVERSITY OF WASHINGTON, DEPT OF ANESTHESIOLOGY, RN-10 , SEATTLE. WASH. Blood flow measurement by ultrasonic catheter tip methods (human, dogs).

R01HL-14646-05 (CVB) HOOD, WILLIAM B, JR, BOSTON CITY, 818 HARRISON AVENUE, BOSTON, MASS. Pathophysiology of myocardial ischemia (dogs, rats).

R01HL-14651-05 (COM) JANZ, RONALD F, AEROSPACE CORPORATION, POST OFFICE BOX 92957, LOS ANGELES, CALIF. Mechanical behavior of left ventricle (dogs, rats).

R01HL-14663-07 (CVA) NORTHWAY, WILLIAM H, JR, STANFORD UNIVERSITY, DEPARTMENT OF RADIOLOGY, STANFORD, CALIF. Pulmonary oxygen toxicity in newborn lung (human, mice).

R01HL-14680-07 (BBCB) GURD, FRANK R, INDIANA UNIVERSITY, DEPARTMENT OF CHEMISTRY, BLOOMINGTON, IND. Specific enrichment of myoglobins for carbon 13 NMR (catacea).

R01HL-1468B-05 (CVB) SELVESTER, RONALD H, RANCHO LOS AMIGOS HOSPITAL, 76D1 EAST IMPERIAL HIGHWAY, DOWNEY, CALIF. Myocardial assessment by inverse electrocardiography (monkey).

R01HL-14692-06 (CVA) FALLAT, ROBERT J, INSTITUTE OF MEDICAL SCIENCES, POST OFFICE BOX 7999, SAN FRANCISCO, CALIF. Alpha 1 antitrypsin deficiency and pulmonary disease (human).

R01HL-14693-07 (CVA) CAIN, STEPHEN M, UNIVERSITY OF ALABAMA, UNIVERSITY STATION, BIRMINGHAM, ALA. Survival value of physiological responses to hypoxia (dogs).

R01HL-14697-07 (HEM) JAMIESON, GRAHAM A, AMERICAN NATIONAL RED CROSS, 9312 OLD GEORGETOWN ROAD, BETHESDA, MD. Role of platelet membranes in hemostasis (human).

R01HL-14700-05 (PTHA) GALDSTON, MORTON, NEW YORK UNIVERSITY, 550 FIRST AVENUE, NEW YORK, N Y. Humoral and lung protease-antiprotease role in obstructive disease (human).

R01HL-14706-07 (CVA) WILDENTHAL, C KERN, UNIVERSITY OF TEXAS, 5323 HARRY HINES BOULEVARD, DALLAS, TEX. Fetal hearts in organ culture (mice).

R01HL-14713-06 (CVA) LOUD, ALDEN V, NEW YORK MEDICAL COLLEGE, BASIC SCIENCE BUILDING, VALHALLA, N Y. Hypothermia and the heart (bats, guinea pigs).

R01HL-14717-06 (CVB) LAKS, MICHAEL M, HARBOR GENERAL HOSPITAL, 1D00 WEST CARSON STREET, TORRANCE, CALIF. Hemodynamics and heart structure--Ventricular overload (dogs).

R01HL-14720-0B (GMB) BANK, NORMAN, MONTEFIORE HOSPITAL & MED CTR, 111 E 21DTH STREET, BRONX, N Y. Factors governing the renal excretion of acid (humans, rats).

R01HL-14730-07 (MET) HULL, FRANKLIN E, WAYNE STATE UNIVERSITY, 357 MEDICAL RESEARCH BUILDING , DETROIT, MICH. Fatty acid beta-oxidation in normal and ischemic hearts (rabbits).

R01HL-14739-06 (HEM) LERNER, ROBERT G, NEW YORK MEDICAL COLLEGE, 1249 FIFTH AVENUE, NEW YORK, N Y. The role of leukocytes in thrombotic disease (human, dogs).

R01HL-14775-0B (PHRA) WEISS, GEORGE B, UNIVERSITY OF TEXAS, 5323 HARRY HINES BOULEVARD, DALLAS, TEX. Mechanisms of drug action in vascular smooth muscle (dog, rabbits).

R01HL-1477B-10 (PC) TRAVIS, JAMES, UNIVERSITY OF GEORGIA, DEPARTMENT OF BIOCHEMISTRY, ATHENS, GA. Proteolytic enzymes and inhibitors in lung disease (mammals, human).

R01HL-147B1-08 (SSS) SPECTOR, ARTHUR A, UNIVERSITY OF IOWA, DEPT OF BIOCHEMISTRY, IOWA CITY, IOWA. Lipid deposition in mammalian cells (mice).

R01HL-14785-07 (SSS) REID, JOHN M, PROVIDENCE MEDICAL CENTER, 556 18TH AVENUE, SEATTLE, WASH. Ultrasonic scattering for tissue characterization (dogs, cattle, human).

R01HL-14799-07 (SGYB) REEMTSMA, KEITH, DEPARTMENT OF SURGERY, 63D WEST 168TH STREET, NEW YORK, N Y. Cardiac heterotransplantation--Immunologic modification (mice, rat).

R01HL-14B20-07 (PHY) SOLOMON, ARTHUR K, HARVARD MEDICAL SCHOOL, 25 SHATTUCK STREET, BOSTON, MASS. Factors affecting physiology of biological membranes (human).

R01HL-14B26-05 (RAD) WATTS, RICHARD S, VETERAN ADMINISTRATION HOSP, 21D0 RIDGECREST DRIVE, S E, ALBUQUERQUE, N MEX. External isotope assay of atherosclerosis (rats, rabbits).

R01HL-14B32-06 (CVA) ERTEL, ROBERT J, UNIVERSITY OF PITTSBURGH, 1100 SALK HALL, PITTSBURGH, PA. Myocardial cells--Autonomic and rhythmic mechanisms (chick embryo, rats).

R01HL-14844-06 (PTHA) BOAT, THOMAS F, RAINBOW BABIES/CHILDRENS HOSP, 21D3 ADELBERT ROAD, CLEVELAND, OHIO. Mucous glycoprotein in human respiratory epithelium (also wheat).

R01HL-14847-07 (HEM) BELL, ROBERT G, UNIVERSITY OF RHODE ISLAND, MORRILL HALL, KINGSTON, R I. Mechanism of action of vitamin K and anticoagulants (rats).

R01HL-14854-07 (AFY) HILDEBRANDT, JACOB, VIRGINIA MASON RESEARCH CENTER, 1000 SENECA STREET, SEATTLE, WASH. Lung and tissue mechanics (monkeys, dogs).

R01HL-14B65-07 (PC) LIENER, IRVIN E, UNIVERSITY OF MINNESOTA, DEPARTMENT OF BIOCHEMISTRY, ST PAUL, MINN. Biochemical studies on the pathogenesis of emphysema (human, rats).

R01HL-14870-06 (CVA) KUNZ, ALBERT L, OHIO STATE UNIVERSITY, 333 WEST 10TH AVENUE, COLUMBUS, OHIO. Dynamics of oxygen and carbon dioxide regulation (animals).

R01HL-14890-07 (HEM) SILVER, MELVIN J, CARDEZA FOUNDATION, 1015 WALNUT STREET, PHILADELPHIA, PA. Platelet prostaglandins (human, rabbits).

R01HL-14899-07 (CVA) CRANEFIELD, PAUL F, ROCKEFELLER UNIVERSITY, 1230 YORK AVENUE, NEW YORK, N Y. Mechanism and prevention of cardiac arrhythmias (dogs).

R01HL-14903-07 (CVA) SAGAWA, KIICHI, JOHNS HOPKINS SCH OF MEDICINE, 72D RUTLAND AVENUE, BALTIMORE, MD. A new index of cardiac contractility (human, dogs, baboons).

R01HL-14913-06 (CVB) IWAI, JUNICHI, BROOKHAVEN NATIONAL LABORATORY, ASSOCIATED UNIVERSITIES, INC, UPTON, N Y. Hypertension--Genetic influence of kidney (rats).

R01HL-14914-06 (GMB) BLANTZ, ROLAND C, VETERANS ADMINISTRATION HOSP, 335D LA JOLLA VILLAGE DRIVE, SAN DIEGO, CALIF. Autoregulation of glomerular filtration rate (rats).

R01HL-14938-06 (BBCB) RICHARDS, E GLEN, VETERANS ADMINISTRATION HOSP, 450D SOUTH LANCASTER ROAD, DALLAS, TEX. Contractile proteins of heart muscle (dogs, rabbits).

R01HL-14944-07 (CVB) HOLLENBERG, NORMAN K, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Renal vascular reactivity in hypertensive patient.

R01HL-14967-06 (CVA) WHIPP, BRIAN J, HARBOR GENERAL HOSPITAL, 100D WEST CARSON STREET, TORRANCE, CALIF. Chemoreceptor function in dynamic ventilatory control (human, dogs).

P01HL-14985-07 (HEPA) GROVER, ROBERT F, UNIV OF COLORADO MED CTR, 420D EAST NINTH AVENUE, DENVER, COLO. Adaptation to hypoxia.

P01HL-14985-07 0002 (HEPA) GROVER, ROBERT F. Adaptation to hypoxia--Oxygen transport in man at high altitude.

P01HL-149B5-07 0003 (HEPA) WEIL, JOHN V. Adaptation to hypoxia--Hypoxia and oxygen transport (human, dogs).

P01HL-149B5-07 0004 (HEPA) WEIL, JOHN V. Adaptation to hypoxia--Control of breathing in respiratory failure (human, dogs).

P01HL-14985-07 0005 (HEPA) WAGNER, WILTZ W. Adaptation to hypoxia--Control mechanisms in the pulmonary microcirculation (animals).

P01HL-149B5-07 0007 (HEPA) REEVES, JOHN T. Adaptation to hypoxia--Control of pulmonary circulation, histamine and the sympathetics (animals).

P01HL-14985-07 000B (HEPA) WEIL, JOHN V. Adaptation to hypoxia--Ventilatory drive and exercise capacity (human, dogs).

P01HL-14985-07 0009 (HEPA) WEIL, JOHN V. Adaptation to hypoxia--Influence of chemosensitivity on control of breathing during sleep (human, dogs).

P01HL-14985-07 0010 (HEPA) REEVES, JOHN T. Adaptation to hypoxia--Pulmonary mast cell (animals).

P01HL-14985-07 0011 (HEPA) REEVES, JOHN T. Adaptation to hypoxia--Prostaglandins in the control of the pulmonary circulation (animals).

P01HL-14985-07 0012 (HEPA) MCMURTRY, IVAN F. Adaptation to hypoxia--Direct effect of hypoxia on pulmonary vascular smooth muscle (rats, dogs).

P01HL-149B5-07 0013 (HEPA) WEIL, JOHN V. Adaptation to hypoxia--Chronic mountain sickness (men).

P01HL-14985-07 0014 (HEPA) REEVES, JOHN T. Adaptation to hypoxia--High altitude pulmonary edema (human, rats, dogs).

P01HL-14985-07 0015 (HEPA) GROVER, ROBERT F. Adaptation to hypoxia--Pregnancy at high altitude (human, animals).

P01HL-14985-07 0016 (HEPA) GROVER, ROBERT F. Adaptation to hypoxia--Administrative core.

P01HL-14985-07 0017 (HEPA) GROVER, ROBERT F. Adaptation to hypoxia--Core laboratories.

P01HL-14985-07 0018 (HEPA) GROVER, ROBERT F. Adaptation to hypoxia--Bioengineering core.

R01HL-14990-07 (MET) BENSADOUN, ANDRE, CORNELL UNIVERSITY, 242 SAVAGE HALL, ITHACA, N Y. Lipid transport in avian species (chickens).

R01HL-14992-07 (HEM) FEINMAN, RICHARD D, S U N Y - DOWNSTATE MED CTR, 450 CLARKSON AVENUE, BROOKLYN, N Y. Mechanism of thrombin action (human).

R01HL-15002-07 (BIO) WHITE, ARNOLD A, UNIVERSITY OF MISSOURI, DALTON RESEARCH CENTER, COLUMBIA, MO. Biochemical pharmacology of guanylate cyclase in lung (cattle, rats).

R01HL-15013-07 (BIO) FISHER, ARON B, UNIVERSITY OF PENNSYLVANIA, A402 RICHARDS BUILDING G4, PHILADELPHIA, PA. Lung oxidative metabolism and energy production (rodents, rabbits).

R01HL-15016-07 (RAD) GRAMIAK, RAYMOND, UNIVERSITY OF ROCHESTER, 601 ELMWOOD AVENUE, ROCHESTER, N Y. New concepts in cardiac ultrasound technology (human).

R01HL-15026-12 (GEN) SMITH, KIRBY D, JOHNS HOPKINS UNIVERSITY, 72D RUTLAND AVENUE, BALTIMORE, MD. Quantitative genetic control of protein synthesis (human, primates, mammals).

R01HL-15047-06 (SRC) PIPBERGER, HUBERT V, VETERANS ADMINISTRATION HOSP, 5D IRVING STREET, N W, WASHINGTON, D C. Digital computer analysis of the electrocardiogram (human).

P50HL-15061-07 (SRC) FISHMAN, ALFRED P, HOSP UNIVERSITY OF PENNSYLVANI, 34TH & SPRUCE STREET, PHILADELPHIA, PA. Response of lung to injury.

P50HL-15061-07 0002 (SRC) FISHER, ARON B. Response of lung to injury--Oxidative metabolism, phospholipid synthesis, and response to toxins (rats).

P50HL-15061-07 0004 (SRC) KEFALIDES, NICHOLAS A. Response of lung to injury--Biochemical abnormalities in connective tissues (rats).

P50HL-15061-07 0005 (SRC) COBURN, RONALD F. Response of lung to injury--Airway smooth muscle in health and disease (dogs, guinea pigs).

P50HL-15061-07 0006 (SRC) ROWLANDS, DAVID T. Response of lung to injury--Complement synthesis by pulmonary macrophages (guinea pigs, human).

P50HL-15061-07 0007 (SRC) ROWLANDS, DAVID T. Response of lung to injury--Human factors for phagocytosis in normal and diseased lungs.

P50HL-15061-07 0009 (SRC) ROWLANDS, DAVID T. Response of lung to injury--Alveolar macrophages (human, rabbits).

P50HL-15061-07 0010 (SRC) REIF, JOHN S. Response of lung to injury--An animal model system for the study of bronchiolitis and its sequellae (dogs).

P50HL-15061-07 0012 (SRC) CHANCE, BRITTON. Response of lung to injury--Hyperbaric oxygen, carbon monoxide, and ozone or peroxide toxicity (rats).

P50HL-15061-07 0013 (SRC) FORSTER, ROBERT E. Response of lung to injury--Exchange transfusion in infants with respiratory distress syndrome (human, sheep).

P50HL-15062-07 (SRC) WISSLER, ROBERT W, UNIVERSITY OF CHICAGO, 950 EAST 59TH STREET, CHICAGO, ILL. Study of lipoproteins, artery wall, and atherosclerosis.

P50HL-15062-07 0001 (SRC) SCANU, ANGELO M. Study of lipoproteins, artery wall, and atherosclerosis--Structure and molecular interactions of serum lipoproteins (human, monkey).

P50HL-15062-07 0007 (SRC) KEZDY, FERENC J. Study of lipoproteins, artery wall, and atherosclerosis--Physical chemistry of lipid-protein interaction (human).

P50HL-15062-07 000B (SRC) LAW, JOHN H. Study of lipoproteins, artery wall, and atherosclerosis--Lipid modifying enzymes (human, monkey).

P50HL-15062-07 0009 (SRC) GETZ, GODFREY S. Study of lipoproteins, artery wall, and atherosclerosis--Plasma lipoprotein biosynthesis (Rhesus monkeys).

P50HL-15062-07 0012 (SRC) WISSLER, ROBERT W. Study of lipoproteins, artery wall, and atherosclerosis--Lipoprotein stimulation of arterial smooth muscle cell proliferation (mammals).

P50HL-15062-07 0013 (SRC) RUBENSTEIN, ARTHUR H. Study of lipoproteins, artery wall, and atherosclerosis--Radioimmunoassay of apolipoproteins (human, monkeys).

P50HL-15062-07 001B (SRC) WISSLER, ROBERT W. Study of lipoproteins, artery wall, and atherosclerosis--Reversal of atherosclerosis in monkeys.

P50HL-15062-07 0019 (SRC) WISSLER, ROBERT W. Study of lipoproteins, artery wall, and atherosclerosis--Factors regulating lipoprotein-smooth muscle cell interaction (monkey).

P50HL-15062-07 0020 (SRC) GLAGOV, SEYMOUR. Study of lipoproteins, artery wall, and atherosclerosis--Artery wall reactions--Elevated pressure and hyperlipemia (monkey).

P50HL-15062-07 0021 (SRC) WISSLER, ROBERT W. Study of lipoproteins, artery wall, and atherosclerosis--Core laboratories.

P50HL-15092-07 (SRC) WEILL, HANS, TULANE UNIVERSITY, 1430 TULANE AVENUE, NEW ORLEANS, LA. Immune and fibrotic response to occupational environments.

P50HL-15092-07 0001 (SRC) ALLEN, GARY C. Immune and fibrotic response to occupational environments--X-ray diffraction study--Dust exposure in asbestos cement products manufacturing.

P50HL-15092-07 0002 (SRC) ZISKIND, MORTON M. Immune and fibrotic response to occupational environments--Longitudinal study of sandblasters silicosis (human).

P50HL-15092-07 0005 (SRC) BUTCHER, BRIAN T. Immune and fibrotic response to occupational environments--Respiratory and immunologic evaluation of toluene diisocyanate exposure (human).

P50HL-15092-07 0006 (SRC) WILSON, MERLIN R, JR. Immune and fibrotic response to occupational environments--Immunologic studies in silicosis (human, rabbits, hamsters, guinea pigs).

P50HL-15092-07 0007 (SRC) WEILL, HANS. Immune and fibrotic response to occupational environments--Asbestosis--Cellular immunity, structure and mineral localization (human).

P50HL-15092-07 000B (SRC) GAUMER, H RICHARD. Immune and fibrotic response to occupational environments--Animal models of asbestosis (hamsters).

P50HL-15092-07 0010 (SRC) DHARMARAJAN, VENKATRAM. Immune and fibrotic response to occupational environments--Characterization of toluene diisocyanate in industrial environments.

P50HL-15092-07 0011 (SRC) LEHRER, SAMUEL B. Immune and fibrotic response to occupational environments--Respiratory and immunologic responses in coffee plant workers.

P50HL-15092-07 0012 (SRC) JONES, ROBERT N. Immune and fibrotic response to occupational environments--Longitudinal evaluation of workers exposed to cotton dust.

P50HL-15092-07 0013 (SRC) WEILL, HANS. Immune and fibrotic response to occupational environments--Epidemiology core resource.

P50HL-15092-07 0014 (SRC) BUTCHER, BRIAN T. Immune and fibrotic response to occupational environments--Clinical immunology core resource.

P50HL-15103-07 (SRC) BERENSON, GERALD S, LOUISIANA STATE UNIVERSITY, 1542 TULANE AVENUE, NEW ORLEANS, LA. A/S SCOR--Early natural history of arteriosclerosis.

P50HL-15103-07 0001 (SRC) BERENSON, GERALD S. A/S SCOR--Early natural history of arteriosclerosis--Clinical research--Bogalusa heart study (children).

P50HL-15103-07 0013 (SRC) SRINIVASAN, S R. A/S SCOR--Early natural history of arteriosclerosis--Experimental models of atherosclerosis (monkeys).

P50HL-15103-07 0014 (SRC) RADHAKRISHNAMURTHY, B. A/S SCOR--Early natural history of arteriosclerosis--Biochemistry of atherosclerotic lesions (monkeys, human, cattle).

R01HL-15104-07 (BIO) GLASS, RICHARD S, UNIVERSITY OF ARIZONA, DEPARTMENT OF CHEMISTRY, TUCSON, ARIZ. A mechanism for oxidative phosphorylation.

R01HL-15124-05 (CVB) BALDWIN, DAVID S, NEW YORK UNIVERSITY MED CTR, 550 FIRST AVENUE, NEW YORK, N Y. Genesis of hypertension in renal disease (human, dogs).

R01HL-15125-07 (PBC) YOSHIDA, AKIRA Y, CITY OF HOPE NAT MEDICAL CTR, 1500 EAST DUARTE ROAD, DUARTE, CALIF. Molecular pathology of genetic disorders in man.

R01HL-15155-05 (BBCB) FORSMAN, WILLIAM C, UNIVERSITY OF PENNSYLVANIA, 398 TOWNE BUILDING, PHILADELPHIA, PA. Rheology of pulmonary secretions (dogs).

P60HL-15157-07 (SRC) ROMAN, STANFORD A, JR, BOSTON CITY HOSPITAL, 818 HARRISON AVENUE, BOSTON, MASS. Comprehensive center for sickle cell disease.

P60HL-15157-07 0001 (SRC) ADAMS, WILLIAM H. Comprehensive center for sickle cell disease--Screening program (human).

P60HL-15157-07 0002 (SRC) ROMAN, STANFORD A, JR. Comprehensive center for sickle cell disease--Central data bank and research file.

P60HL-15157-07 0003 (SRC) ROMAN, STANFORD A, JR. Comprehensive center for sickle cell disease--Public education.

P60HL-15157-07 0009 (SRC) PALEK, JIRI. Comprehensive center for sickle cell disease--Red cell membrane alterations during sickling (human).

P60HL-15157-07 0011 (SRC) RICH, ALEXANDER. Comprehensive center for sickle cell disease--Development of specific anti-sickling compound (human).

P60HL-15157-07 0012 (SRC) DESFORGES, JANE F. Comprehensive center for sickle cell disease--Sickling and intracellular pH (human).

P60HL-15157-07 001B (SRC) NATHAN, DAVID. Comprehensive center for sickle cell disease--Red blood cell membrane physiology in sickle cell anemia (human)

P60HL-1515B-07 (SRC) HUISMAN, TITUS H, MEDICAL COLLEGE OF GEORGIA, AUGUSTA, GA Comprehensive sickle cell center

P60HL-1515B-07 0004 (SRC) GILMAN, PRISCILLA A. Comprehensive sickle cell center--Expression of abnormal hemoglobin synthesis in the neonate and young child.

P60HL-1515B-07 000B (SRC) HUISMAN, TITUS H J. Comprehensive sickle cell center--Core laboratory of the center

P60HL-1515B-07 0009 (SRC) MILNER, PAUL F. Comprehensive sickle cell center Counseling and social services.

P60HL-1515B-07 0010 (SRC) HARRIS, HERMAN F. Comprehensive sickle cell center--Tutorial service for sickle cell anemia patients

P60HL-1515B-07 0011 (SRC) MILNER, PAUL F. Comprehensive sickle cell center--Clinical services--Adult patients.

P60HL-1515B-07 0012 (SRC) GILMAN, PRISCILLA A. Comprehensive sickle cell center--Clinical services--Pediatric patients.

P60HL-1515B-07 0014 (SRC) AMMA, ELMER L. Comprehensive sickle cell center--Mechanism of sickling in human and deer hemoglobins.

P60HL-1515B-07 0016 (SRC) HUISMAN, TITUS H J. Comprehensive sickle cell center--Biochemical studies in sickle cell anemia (human).

P60HL-1515B-07 0020 (SRC) GARVER, FREDERICK A. Comprehensive sickle cell center--Immunochemical investigation of hemoglobin variants (human).

P60HL-1515B-07 0025 (SRC) STRONG, WILLIAM B. Comprehensive sickle cell center--Cardiovascular evaluation of children with sickle cell disease (human).

P60HL-1515B-07 0027 (SRC) HARRIS, HERMAN F. Comprehensive sickle cell center--Community advisory board--Nancy Cobb house.

P60HL-1515B-07 002B (SRC) HUISMAN, TITUS H J. Comprehensive sickle cell center--Education.

P60HL-15160-07 (SRC) SCOTT, ROLAND B, HOWARD UNIVERSITY, COLLEGE OF MEDICINE, WASHINGTON, D C. Center for sickle cell disease.

P60HL-15160-07 0003 (SRC) MURRAY, ROBERT F, JR. Center for sickle cell disease--Genetic counseling in hemoglobinopathies--Dimensions, effectiveness.

P60HL-15160-07 000B (SRC) LEE, TED C K. Center for sickle cell disease--Isocyanate derivatives and hemoglobin S association (human, rat).

P60HL-15160-07 0009 (SRC) UY, CORAZON G. Center for sickle cell disease--Natural history of sickle cell disease (human).

P60HL-15160-07 0011 (SRC) CASTRO, OSWALDO. Center for sickle cell disease--Study of human sickle cells in an animal model (rats).

P60HL-15160-07 0012 (SRC) CASTRO, OSWALDO. Center for sickle cell disease--Core laboratories.

P60HL-15160-07 0013 (SRC) HEADINGS, VERLE E. Center for sickle cell disease--Immunochemical diagnosis of hemoglobinopathies (infants).

P60HL-15160-07 0014 (SRC) CASTRO, OSWALDO. Center for sickle cell disease--Replacement therapy of opsonin deficiency in sickle cell anemia (children).

P60HL-15160-07 0015 (SRC) YOUNG, ROSCOE C. Center for sickle cell disease--Lung function abnormalities in sickle cell hemoglobinopathies (human).

P60HL-15160-07 0016 (SRC) MILLER, RUSSELL L. Center for sickle cell disease--Kinin and plasmin system in sickle cell disease (human).

P60HL-15160-07 0017 (SRC) SCOTT, ROLAND B. Center for sickle cell disease--Demonstration--Education, screening, counseling, patient care.

P60HL-15162-07 (SRC) HAYWOOD, L JULIAN, UNIV OF SOUTHERN CALIFORNIA, 1200 NORTH STATE ST - BOX 305 , LOS ANGELES, CALIF. Comprehensive sickle cell center.

P60HL-15162-07 0001 (SRC) POWARS, DARLEEN R. Comprehensive sickle cell center--Core program--Patient care.

P60HL-15162-07 0007 (SRC) HAYWOOD, L JULIAN. Comprehensive sickle cell center--Core program--Demographic studies (human).

P60HL-15162-07 0010 (SRC) VAVASSEUR, JUNE. Comprehensive sickle cell center--Core program--Community outreach and education program.

P60HL-15162-07 0011 (SRC) POWARS, DARLEEN R. Comprehensive sickle cell center--Core program--Genetic counseling and diagnostic screening.

P60HL-15162-07 0017 (SRC) RICHARDS, JOHN H. Comprehensive sickle cell center--Hemoglobin, erythrocytes and sickle cell anemia (human, rabbit).

P60HL-15162-07 001B (SRC) SCHROEDER, WALTER A. Comprehensive sickle cell center--Biochemical and genetic studies of sickle cell anemia (human).

P60HL-15162-07 0019 (SRC) MEISELMAN, HERBERT J. Comprehensive sickle cell center--RBC-Blood rheology in sickle cell anemia and related disorders (human, animal).

P60HL-15162-07 0020 (SRC) BAKER, RICHARD. Comprehensive sickle cell center--Biophysical studies of normal and sickle red cells (human).

P60HL-15162-07 0021 (SRC) OVERTURF, GARY D. Comprehensive sickle cell center--Pneumococcal vaccine in sickle cell disease (children).

P60HL-1516B-07 (SRC) RABB, MAURICE F, UNIVERSITY OF ILLINOIS, 1919 W TAYLOR ST, CHICAGO, ILL. Comprehensive sickle cell disease center.

P60HL-1516B-07 0001 (SRC) HELLER, PAUL. Comprehensive sickle cell disease center--Screening program (human).

P60HL-1516B-07 0002 (SRC) HELLER, PAUL. Comprehensive sickle cell disease center--Patient care.

P60HL-1516B-07 0003 (SRC) DESIMONE, JOSEPH. Comprehensive sickle cell disease center--Sickle cell education and training program.

P60HL-1516B-07 0005 (SRC) GOLDBERG, MORTON F. Comprehensive sickle cell disease center--Ophthalmology (human, rabbits, monkeys).

P60HL-1516B-07 0006 (SRC) RABB, MAURICE F. Comprehensive sickle cell disease center--Core center.

P60HL-1516B-07 0009 (SRC) JOHNSON, MICHAEL E. Comprehensive sickle cell disease center--Spin-label study of sickling (human).

P60HL-1516B-07 0010 (SRC) HONIG, GEORGE R. Comprehensive sickle cell disease center--Sickle cell center project (children).

P60HL-15169-05 (SRC) KRAUS, ALFRED P, UNIVERSITY OF TENNESSEE, 800 MADISON AVE, MEMPHIS, TENN. Support for center for sickle cell disease.

P60HL-15169-05 0009 (SRC) BISNO, ALAN L. Support for center for sickle cell disease--Infections in sickle cell anemia (human).

P60HL-15169-05 0012 (SRC) PHILLIPS, JERRY C. Support for center for sickle cell disease--Evaluation of the incidence of cholelithiasis in sickle cell disease (human).

P60HL-15169-05 0014 (SRC) ANDERSON, LEWIS O. Support for center for sickle cell disease--Orthopaedic aspects of sickle cell disease (human).

P60HL-15169-05 0015 (SRC) DAVIS, HARRY L. Support for center for sickle cell disease--Pathophysiology of acute pulmonary infiltrates in sickle cell disease (human).

P60HL-15169-05 0017 (SRC) DIGGS, L W. Support for center for sickle cell disease--Study of the natural history of sickle cell disease in the home.

P60HL-15169-05 0018 (SRC) KRAUS, LORRAINE M. Support for center for sickle cell disease--Studies on sickle cell disease (human, rats, dogs).

P60HL-15169-05 0019 (SRC) KRAUS, ALFRED P. Support for center for sickle cell disease--Central screening and reference laboratory.

P60HL-15169-05 0021 (SRC) KRAUS, ALFRED P. Support for center for sickle cell disease--Multidisciplinary module system for education, screening and counseling.

P60HL-15170-05 (SRC) JONES, CYRIL J, STATE UNIVERSITY OF NEW YORK, 450 CLARKSON AVENUE, BROOKLYN, N Y. Support for center for sickle cell anemia.

P60HL-15170-05 0001 (SRC) HOLDEN, DOROTHY M. Support for center for sickle cell anemia--Adult clinical services.

P60HL-15170-05 0002 (SRC) HOLDEN, DOROTHY M. Support for center for sickle cell anemia--Adult services--Testing programs.

P60HL-15170-05 0003 (SRC) HOLDEN, DOROTHY M. Support for center for sickle cell anemia--Adult services--Educational programs.

P60HL-15170-05 0006 (SRC) BROWN, AUDREY K. Support for center for sickle cell anemia--Pediatric services--Comprehensive clinic.

P60HL-15170-05 0007 (SRC) BROWN, AUDREY K. Support for center for sickle cell anemia--Pediatric services--Screening program.

P60HL-15170-05 0008 (SRC) BROWN, AUDREY K. Support for center for sickle cell anemia--Pediatric services--Education program.

P60HL-15170-05 0017 (SRC) LEVERE, RICHARD O. Support for center for sickle cell anemia--Control of hemoglobulin synthesis (human).

P60HL-15170-05 0019 (SRC) DIAMOND, HERBERT S. Support for center for sickle cell anemia--Renal handling of uric acid in sickle cell anemia (human).

P60HL-15170-05 0023 (SRC) DOSIK, HARVEY. Support for center for sickle cell anemia--Comprehensive sickle cell clinic.

P60HL-15170-05 0030 (SRC) HOLDEN, DOROTHY M. Support for center for sickle cell anemia--Adult services--Counseling program.

R01HL-15174-06 (EDC) STAMLER, JEREMIAH, NORTHWESTERN UNIVERSITY, 303 E CHICAGO AVENUE, CHICAGO, ILL. CV disease epidemiology--Second generation studies (human).

R01HL-15190-07 (CVB) GALLAGHER, JOHN J, DUKE UNIVERSITY, BOX 3022, DURHAM, N C. Physiological basis of arrhythmias and their therapy (human).

R01HL-15191-07 (EDC) CORNFIELD, JEROME, GEORGE WASHINGTON UNIVERSITY, 7979 OLD GEORGETOWN ROAD, BETHESDA, MD. Multiparameter methods for cardiovascular research.

P01HL-15194-07 (HEPA) KLOCKE, FRANCIS J, S U N Y - AT BUFFALO, 462 GRIDER STREET, BUFFALO, N Y. Pathophysiology of cardiopulmonary dysfunction.

P01HL-15194-07 0001 (HEPA) KLOCKE, FRANCIS J. Pathophysiology of cardiopulmonary dysfunction--Coronary circulation, venous drainage and collateral flow (human, dogs).

P01HL-15194-07 0004 (HEPA) HOGAN, PERRY. Pathophysiology of cardiopulmonary dysfunction--Specialized electrophysiology fibers--Electrogenic basis of glycosides (mammals).

P01HL-15194-07 0006 (HEPA) KLOCKE, ROBERT A. Pathophysiology of cardiopulmonary dysfunction--Kinetics of gas exchange--Velocity of Bohr effect in erythrocytes (human).

P01HL-15194-07 0009 (HEPA) KLOCKE, ROBERT A. Pathophysiology of cardiopulmonary dysfunction--Kinetics of gas exchange--Diffusion and erythrocytes reaction rates (human, dogs).

P01HL-15194-07 0011 (HEPA) KLOCKE, ROBERT A. Pathophysiology of cardiopulmonary dysfunction--Distribution of ventilation--Oxygen effects on intrapulmonary shunting (human).

P01HL-15194-07 0017 (HEPA) KLOCKE, FRANCIS J. Pathophysiology of cardiopulmonary dysfunction--Coronary circulation and effects of arteriographic lesions on flow (human).

P01HL-15194-07 0018 (HEPA) KLOCKE, FRANCIS J. Pathophysiology of cardiopulmonary dysfunction--Coronary circulation, metabolic demand and vasodilatory reserve (human, dogs).

P01HL-15194-07 0019 (HEPA) KLOCKE, FRANCIS J. Pathophysiology of cardiopulmonary dysfunction--Coronary circulation, bypass grafts and diastolic driving pressure (human, dogs).

P01HL-15194-07 0020 (HEPA) GREENE, DAVID G. Pathophysiology of cardiopulmonary dysfunction--Coronary circulation in arteriographically normal arteries (human).

P01HL-15194-07 0022 (HEPA) KLOCKE, ROBERT A. Pathophysiology of cardiopulmonary dysfunction--Kinetics of gas exchange--Pulmonary carbon dioxide exchange (dogs).

P01HL-15194-07 0023 (HEPA) KLOCKE, ROBERT A. Pathophysiology of cardiopulmonary dysfunction--Distribution of ventilation--Diffusion and cardiogenic agitation (dogs).

P01HL-15194-07 0024 (HEPA) SALTZMAN, ALAN R. Pathophysiology of cardiopulmonary dysfunction--Distribution of ventilation--Airflow limitation in COLD (human).

P01HL-15194-07 0025 (HEPA) REICHLIN, MORRIS. Pathophysiology of cardiopulmonary dysfunction--Myoglobinemia as an index of myocardial ischemia and infarction.

P01HL-15194-07 9000 (HEPA) KLOCKE, FRANCIS J. Pathophysiology of cardiopulmonary dysfunction--Animal laboratory core.

P01HL-15194-07 9001 (HEPA) KLOCKE, FRANCIS J. Pathophysiology of cardiopulmonary dysfunction--Analytical laboratory core.

P01HL-15194-07 9002 (HEPA) MATES, ROBERT E. Pathophysiology of cardiopulmonary dysfunction--Data processing laboratory core.

P01HL-15194-07 9003 (HEPA) MATES, ROBERT E. Pathophysiology of cardiopulmonary dysfunction--Electronics laboratory core.

P01HL-15195-04 (HEP) WALTON, ALAN G, CASE WESTERN RESERVE UNIV, 801 OLIN BUILDING, CLEVELAND, OHIO. Program project in biological materials.

P01HL-15195-04 0001 (HEP) ANDERSON, JAMES M. Program project in biological materials--Design and synthesis.

P01HL-15195-04 0002 (HEP) WALTON, ALAN G. Program project in biological materials--Structural and surface characterization.

P01HL-15195-04 0003 (HEP) HILTNER, PHYLLIS A. Program project in biological materials--Mechanical evaluation and fabrication.

P01HL-15195-04 0004 (HEP) CATANZARO, P. Program project in biological materials--Biological evaluation and surface interaction studies (dogs).

R01HL-15215-06 (HEM) DALMASSO, AGUSTIN P, VETERANS ADMIN HOSPITAL, 54TH ST & 48TH AVE SO, MINNEAPOLIS, MINN. Role of complement in intravascular coagulation (rabbits, mice).

R01HL-15226-06 (HEM) NIEWIAROWSKI, STEFAN, TEMPLE UNIVERSITY, HEALTH SCIENCES CENTER, PHILADELPHIA, PA. Interaction of blood cells with fibrinogen and fibrin (human, animals).

R01HL-15230-05 (HEM) HOUGIE, CECIL, UNIV OF CALIFORNIA, SAN DIEGO, DEPARTMENT OF PATHOLOGY, LA JOLLA, CALIF. Molecular basis of V Willebrand's disease and hemophilia (human, cattle).

R01HL-15231-05 (CVA) CHOU, CHING-CHUNG, MICHIGAN STATE UNIVERSITY, DEPARTMENT OF PHYSIOLOGY, EAST LANSING, MICH. Mechanisms of hemodynamic changes during digestion (dogs).

R01HL-15247-05 (SGYA) PARSONNET, VICTOR, BETH ISRAEL MEDICAL CENTER, 201 LYONS AVENUE, NEWARK, N J. Extending the life of implanted pacemakers (dogs, human).

R01HL-15263-06 (MET) ALBERS, JOHN J, HARBORVIEW MEDICAL CENTER, 325 9TH AVENUE, SEATTLE, WASH. Lecithin--Cholesterol acetyltransferase (human, rabbits).

P01HL-15265-05 (HEP) BUCHWALD, HENRY, UNIVERSITY OF MINNESOTA HOSP, BOX 290 MAYO BLDG, MINNEAPOLIS, MINN. Program on surgical control of the hyperlipidemias.

P01HL-15265-05 0003 (HEP) MOORE, RICHARD B. Program on surgical control of the hyperlipidemias--Central lipid laboratory.

P01HL-15265-05 0004 (HEP) LONG, JOHN M. Program on surgical control of the hyperlipidemias--Coordinating center and central data processing facility.

P01HL-15265-05 0011 (HEP) TUNA, NAIP. Program on surgical control of the hyperlipidemias--Central electrocardiography laboratory (human).

P01HL-15265-05 0012 (HEP) AMPLATZ,. Program on surgical control of the hyperlipidemias--Central arteriography--Radiography laboratory (human).

P01HL-15265-05 0013 (HEP) MCMULLEN, JOHN. Program on surgical control of the hyperlipidemias--Clinical center - Minnesota.

P01HL-15265-05 0014 (HEP) CAMPBELL, GILBERT S. Program on surgical control of the hyperlipidemias--Arkansas clinical center.

R01HL-15270-06 (CVB) VAISHNAV, RAMESH N, CATHOLIC UNIV OF AMERICA, SCH OF ENGR & ARCHITECTURE, WASHINGTON, D C. Local mechanical properties of the aortic tissue (dogs, pigs).

R01HL-15273-06 (CVA) BALINT, JOHN A, DEPT OF MEDICINE, ALBANY MEDICAL COLLEGE, ALBANY, N Y. Metabolism of pulmonary surfactant (human, rats).

R01HL-15284-06 (BBCB) PARKHURST, LAWRENCE J, UNIVERSITY OF NEBRASKA, HAMILTON HALL 525, LINCOLN, NEBR. Hemoglobin and myoglobin kinetic studies (human, animals).

R01HL-15293-07 (BBC8) FAIRCHILD, BEATRICE M, ST LUKE'S HOSPITAL CENTER, 114TH STREET & AMSTERDAM AVE, NEW YORK, N Y. Sickle cell hemoglobin--Interactions and aggregation (human).

R01HL-15307-06 (CVB) ZEHR, JOHN E, UNIVERSITY OF ILLINOIS, 524 BURRILL HALL, URBANA, ILL. Central nervous control of renin and blood pressure (dogs).

R01HL-15308-07 (MET) SCHONFELD, GUSTAV, WASHINGTON UNIVERSITY, BOX 8046, 4566 SCOTT AVENUE, ST LOUIS, MO. Assays for peptides of lipoproteins (human).

R01HL-15316-07 (CVA) HITCHCOCK, KAREN R, TUFTS UNIVERSITY, 136 HARRISON AVENUE, BOSTON, MASS. Lung surfactant system--Control mechanisms (rats).

R01HL-15335-06 (HEM) SIMONS, ELIZABETH R, BOSTON UNIVERSITY, 80 EAST CONCORD STREET, BOSTON, MASS. The nature of the collagen-platelet interaction (animals).

R01HL-15341-06 (HED) CHYTIL, FRANK, VANDERBILT UNIVERSITY, SCHOOL OF MEDICINE, NASHVILLE, TENN. Lung hormonal and chromosomal regulation (rats, rabbits).

R01HL-15374-03 (SRC) STAMLER, JEREMIAH, 303 EAST CHICAGO AVENUE, CHICAGO, ILL. Cooperative study of drugs and coronary heart disease (human).

R01HL-15376-06 (PC) SCHROEPFER, GEORGE J, JR, RICE UNIVERSITY, DEPT OF BIOCHEMISTRY, HOUSTON, TEX. Intermediary metabolism of sterols (mice).

R01HL-15378-06 (BBCA) DETITTA, GEORGE T, MED FND OF BUFFALO, INC, 73 HIGH STREET, BUFFALO, N Y. Ultrastructure of antihypertensive prostaglandins.

P50HL-15389-07 (SRC) FINK, JORDAN N, MEDICAL COLLEGE OF WISCONSIN, 561 N 15TH STREET, MILWAUKEE, WIS. Pulmonary SCOR--Hypersensitivity pneumonitis.

P50HL-15389-07 0001 (SRC) EMANUEL, DEAN A. Pulmonary SCOR--Hypersensitivity pneumonitis--Clinical studies of hypersensitivity pneumonitis.

P50HL-15389-07 0008 (SRC) SCHLUETER, DONALD P. Pulmonary SCOR--Hypersensitivity pneumonitis--Milwaukee patient study--Hypersensitivity pneumonitis.

P50HL-15389-07 0009 (SRC) EMANUEL, DEAN A. Pulmonary SCOR--Hypersensitivity pneumonitis--Clinical studies--Pulmonary mycotoxicosis.

P50HL-15389-07 0010 (SRC) PATTERSON, ROY. Pulmonary SCOR--Hypersensitivity pneumonitis--Clinical study--Pulmonary lesions due to non-invasive aspergillosis.

P50HL-15389-07 0011 (SRC) MOORE, VERNON L. Pulmonary SCOR--Hypersensitivity pneumonitis--Animal model--Hypersensitivity pneumonitis in rabbits.

P50HL-15389-07 0012 (SRC) MOORE, VERNON L. Pulmonary SCOR--Hypersensitivity pneumonitis--Animal model--Immunologic lung disease in guinea pigs.

P50HL-15389-07 0013 (SRC) MARX, JAMES J. Pulmonary SCOR--Hypersensitivity pneumonitis--Animal model--Pulmonary mycotoxicosis (rabbit, guinea pig).

P50HL-15389-07 0014 (SRC) FREDRICKS, WALTER W. Pulmonary SCOR--Hypersensitivity pneumonitis--Fractionation and characterization of pigeon antigens.

P50HL-15389-07 0015 (SRC) ROBERTS, RONALD C. Pulmonary SCOR--Hypersensitivity pneumonitis--Fractionation and characterization of thermophilic Actinomycete antigens.

P50HL-15389-07 0016 (SRC) SCHLUETER, DONALD P. Pulmonary SCOR--Hypersensitivity pneumonitis--Pulmonary physiology core (human).

P50HL-15389-07 0017 (SRC) BARBORIAK, JOSEPH J. Pulmonary SCOR-Hypersensitivity pneumonitis-Immunology core (human).

P50HL-15389-07 0018 (SRC) GARANCIS, JOHN. Pulmonary SCOR-Hypersensitivity pneumonitis-Pathology core (human, animal).

P50HL-15389-07 0019 (SRC) KURUP, VISWANATH P. Pulmonary SCOR-Hypersensitivity pneumonitis-Microbiology core (human, animal).

P50HL-15389-07 0020 (SRC) RIMM, ALFRED A. Pulmonary SCOR-Hypersensitivity pneumonitis-Computer applications and data analysis core.

R01HL-15390-12 (PHY) JOHNSON, PAUL C, ARIZONA HEALTH SCIENCES CENTER, PHYSIOLOGY DEPARTMENT, TUCSON, ARIZ. Regulation of blood flow in the microcirculation.

R01HL-15391-07 (BBCB) SEIDEL, JOHN C, 20 STANIFORD STREET, BOSTON, MASS. EPR studies on rotational motion of myosin and actin.

R01HL-15392-06 (PHRA) PRICE, HENRY L, HAHNEMANN MED COLLEGE & HOSP, 235 NORTH FIFTEENTH STREET, PHILADELPHIA, PA. Autonomic and circulatory actions of anesthetics (dog, cat, rabbit, monkey).

R01HL-15416-06 (CVA) VATNER, STEPHEN F, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Cardiovascular control in normal and disease states (dogs, baboons).

R01HL-15427-06 (MET) SCHONFELD, GUSTAV, WASHINGTON UNIVERSITY, BOX 8046, 4566 SCOTT AVENUE, ST LOUIS, MO. Secretion of plasma lipoproteins (rats).

R01HL-15430-05 (CVB) COTTON, ERNEST K, UNIVERSITY OF COLORADO, 420D EAST NINTH AVENUE, DENVER, COLO. Cardiopulmonary adaptation of newborns to altitude (human).

R01HL-15444-06 (CVA) BUCKLEY, NANCY M, ALBERT EINSTEIN COLL OF MED, 130D MORRIS PARK AVENUE, NEW YORK, N Y. Neonatal development of adrenergic receptor mechanisms (pigs).

R01HL-15447-06 (PHRA) DUNHAM, EARL W, UNIVERSITY OF MINNESOTA, 105 MILLARD HALL, MINNEAPOLIS, MINN. Vascular role of prostaglandin and cyclic nucleotides (rats).

R01HL-15448-06 (SGYB) HAGEN, PER-OTTO F, DUKE UNIVERSITY, DEPARTMENT OF SURGERY, DURHAM, N C. Surgical and metabolic aspects of venous grafts, (dogs, monkeys, rabbits).

R01HL-15460-06 (BBCB) BONAVENTURA, JOSEPH, DUKE UNIVERSITY, MARINE LABORATORY, BEAUFORT, N C. Molecular adaptation--Hemoglobin systems of fish (marine).

R01HL-15469-06 (AFY) DEMPSEY, JEROME A, 5D4 NORTH WALNUT STREET, MADISON, WIS. Human ventilatory adaptation (also, dogs, rats).

R01HL-15474-06 (HEM) KIRBY, EDWARD P, TEMPLE UNIVERSITY, DEPARTMENT OF BIOCHEMISTRY, PHILADELPHIA, PA. Structure and function of the antihemophilic factor (human, cattle).

R01HL-15476-05 (BIO) ORITZ DE MONTELLANO, PAUL, UNIVERSITY OF CALIFORNIA, 926 MEDICAL SCIENCES BUILDING , SAN FRANCISCO, CALIF. Mechanism and control of sterol biosynthesis (rats).

R01HL-15478-05 (NTN) LANGNER, RONALD O, UNIVERSITY OF CONNECTICUT, SCHOOL OF PHARMACY, STORRS, CONN. Lipid flux and collagen synthesis in atherosclerosis (rabbits).

P01HL-15486-06 (HEPB) NOSSEL, HYMIE L, COLUMBIA UNIVERSITY, 630 WEST 168TH STREET, NEW YORK, N Y. Studies on thrombosis.

P01HL-15486-06 0001 (HEPB) CANFIELD, ROBERT E. Studies on thrombosis--Studies on chemistry of fibrinogen (human, dogs).

P01HL-15486-06 0002 (HEPB) BUTLER, VINCENT P. Studies on thrombosis--Characterization of antisera to fibrinopeptide B (human, rabbits).

P01HL-15486-06 0003 (HEPB) NOSSEL, HYMIE L. Studies on thrombosis--Mechanism and prevention of fibrinopeptide B degradation (human).

P01HL-15486-06 0004 (HEPB) WILNER, GEORGE D. Studies on thrombosis--Thrombosis, intravascualr coagulation, platelet aggregation (dogs).

P01HL-15486-06 0005 (HEPB) KAPLAN, KAREN L. Studies on thrombosis--Isolation and characterization of PF4 antigens (rabbits).

P01HL-15486-06 0006 (HEPB) NOSSEL, HYMIE L. Studies on thrombosis--Clinical investigation unit.

R01HL-15491-06 (HEM) ZIMMERMAN, THEODORE S, SCRIPPS CLINIC & RESEARCH FON, 10666 NORTH TORREY PINES ROAD , LA JOLLA, CALIF. Blood coagulation--Platelet-plasma protein interaction (human).

R01HL-15498-06 (CVB) SCHEUER, JAMES, MONTEFIORE HOSP & MEDICAL CTR, 111 EAST 210TH STREET, BRONX, N Y. Effects of physical training on heart (rats).

R01HL-15504-05 (NTN) KUMMEROW, FRED A, HARLAN E MOORE HEART RES FDN, 805 SOUTH OAK STREET, CHAMPAIGN, ILL. Animal model for studies on averting atherosclerosis (swine).

R01HL-15512-06 (CVB) KRAMSCH, DIETER M, UNIVERSITY HOSPITAL, 75 EAST NEWTON STREET, BOSTON, MASS. Drug treatment of stenosing primate atherosclerosis (rabbits, monkeys).

R01HL-15520-06 (SGYA) GEYER, ROBERT P, HARVARD SCHOOL OF PUBLIC HLTH, 665 HUNTINGTON AVENUE, BOSTON, MASS. Total blood replacement by fluorocarbons and polyols (rats).

R01HL-15522-06 (CVB) WILLERSON, JAMES T, UNIVERSITY OF TEXAS, 5323 HARRY HINES BOULEVARD, DALLAS, TEX. Influence of mannitol on ischemia cardiac muscle (dogs, cats, rats).

R01HL-15526-05 (CVA) WOHL, MARY E, 3D0 LONGWOOD AVE, CHILDREN'S HOSPITAL MED CTR, BOSTON, MASS. Respiratory mechanics in children.

R01HL-15528-05 (CVB) KOTCHEN, THEODORE A, UNIVERSITY OF KENTUCKY, DEPARTMENT OF MEDICINE, LEXINGTON, KY. Renin kinetics in hypertensive and uremic plasma (human, dogs).

R01HL-15535-06 (BIO) LAURSEN, RICHARD A, BOSTON UNIVERSITY, 685 COMMONWEALTH AVENUE, BOSTON, MASS. Structure and function of human plasmin.

R01HL-15562-05 (CVB) SKINNER, NEWMAN S, JR, BOWMAN GRAY SCHOOL OF MEDICINE, DEPT OF PHYSIOLOGY, WINSTON-SALEM, N C. Regulation of skeletal muscle blood flow (dogs).

R01HL-15567-05 (MET) HUGGINS, CLYDE G, UNIVERSITY OF SOUTH ALABAMA, DEPARTMENT OF BIOCHEMISTRY, MOBILE, ALA. Cardiovascular phosphoinositide metabolism (rats).

R01HL-15580-06 (CVA) KADOWITZ, PHILIP J, TULANE UNIVERSITY, 1430 TULANE AVENUE, NEW ORLEANS, LA. Humoral control of pulmonary and systemic circulation (animals).

R01HL-15593-05 (SGYA) BARTLETT, ROBERT H, UNIVERSITY OF CALIFORNIA, DEPARTMENT OF SURGERY, IRVINE, CALIF. Prolonged extracorporeal cardiopulmonary support (rats, sheep, rabbits).

P01HL-15596-05 (HEP) JOHNSON, ALAN J, NEW YORK UNIVERSITY, 550 FIRST AVENUE, NEW YORK, N Y. Coagulation, fibrinolysis, hemostasis and hepatitis.

P01HL-15596-05 0001 (HEP) MERSKEY, CLARENCE. Coagulation, fibrinolysis, hemostasis and hepatitis-Defibrination (human)

P01HL-15596-05 0002 (HEP) NOSSEL, HYMIE. Coagulation, fibrinolysis, hemostasis and hepatitis-Radioimmunoassay of fibrinogen and fibrin derivatives (human)

P01HL-15596-05 0003 (HEP) MOSESSON, MICHAEL W. Coagulation, fibrinolysis, hemostasis and hepatitis-Plasmin degraded fibrinogen fractions (human).

P01HL-15596-05 0007 (HEP) ONG, ENG B. Coagulation, fibrinolysis, hemostasis and hepatitis--Structural studies and fractionation of urokinase (human).

P01HL-15596-05 0008 (HEP) NEWMAN, JACK. Coagulation, fibrinolysis, hemostasis and hepatitis--Structural studies and fractionation of antihemophilic factor (human).

P01HL-15596-05 0010 (HEP) JOHNSON, ALAN J. Coagulation, fibrinolysis, hemostasis and hepatitis-Von Willebrand's factor (human).

P01HL-15596-05 0012 (HEP) ZUCKER, MARJORIE B. Coagulation, fibrinolysis, hemostasis and hepatitis--Platelet function-Phorbol ester and zymosan-induced release activity.

P01HL-15596-05 0014 (HEP) FINLAY, THOMAS H. Coagulation, fibrinolysis, hemostasis and hepatitis--Von Willebrand factor and platelet retention in glass bead columns (swine).

P01HL-15596-05 0016 (HEP) JOHNSON, ALAN J. Coagulation, fibrinolysis, hemostasis and hepatitis--Hepatitis-B antigen in whole blood, plasma and plasma fractions (human, monkeys).

P01HL-15596-05 0017 (HEP) FINLAY, THOMAS H. Coagulation, fibrinolysis, hemostasis and hepatitis--Heparin and antithrombin III.

P01HL-15596-05 0018 (HEP) MERSKEY, CLARENCE. Coagulation, fibrinolysis, hemostasis and hepatitis--Increased plasma lipids on blood coagulation and thrombosis (human, animals).

P01HL-15596-05 0019 (HEP) ONG, ENG B. Coagulation, fibrinolysis, hemostasis and hepatitis--Protamine assay and serine proteases.

P01HL-15596-05 0020 (HEP) HODGINS, LEONARD T. Coagulation, fibrinolysis, hemostasis and hepatitis--Affinity chromatography.

R01HL-15607-06 (CVB) HIRSCH, LEROY J, MICHAEL REESE HOSP & MED CTR, 29TH STREET & ELLIS AVENUE, CHICAGO, ILL 60616. Physiological control of splanchnic circulation (dogs).

R01HL-15614-04 (EDC) SCHULL, WILLIAM J, UNIVERSITY OF TEXAS, 6901 BERTNER AVENUE, HOUSTON, TEX. Heredity and oxygen--Effects on health of heart-lungs (South America).

R01HL-15615-06 (HEM) MC KEE, PATRICK A, DUKE UNIVERSITY, BOX 3705, DURHAM, N C. Structure-function studies of human factor VIII/vWF.

R01HL-15616-04 (HEM) PHILLIPS, DAVID R, ST JUDE CHILDREN'S RES HOSP, POST OFFICE BOX 318, MEMPHIS, TENN. Platelet membrane proteins in aggregation (human).

R01HL-15619-05 (HEM) MUNNS, THEODORE W, ST LOUIS UNIVERSITY, 1402 SOUTH GRAND BLVD, ST LOUIS, MO. Regulation of prothrombin synthesis in cultured cells (rats).

R01HL-15622-05 (COM) GARFINKEL, DAVID, UNIVERSITY OF PENNSYLVANIA, MOORE SCH OF ELECTRICAL ENGR, PHILADELPHIA, PA. Computer simulation in cardiology (rats, dogs).

R01HL-15627-06 (BBCB) SCHEIDT, W ROBERT, UNIVERSITY OF NOTRE DAME, DEPARTMENT OF CHEMISTRY, NOTRE DAME, IND. X-ray and chemical studies of metalloporphyrins.

R01HL-15640-06 (MCHB) CUMMINGS, SUE C, WRIGHT STATE UNIVERSITY, DEPARTMENT OF CHEMISTRY, DAYTON, OHIO. Thermodynamic studies on model oxygen carriers.

R01HL-15646-03 (MET) GEYER, ROBERT P, HARVARD SCHOOL OF PUBLIC HLTH, 665 HUNTINGTON AVENUE, BOSTON, MASS. Lipid studies in vascular smooth muscle cells (human, monkeys).

R01HL-15647-06 (HEM) JONES, JIMMY B, UNIVERSITY OF TENNESSEE, 1924 ALCOA HIGHWAY, KNOXVILLE, TENN. Hematopoietic studies of cyclic hematopoiesis (dogs).

R01HL-15648-06 (BBCB) SMITH, LOUIS C, BAYLOR COLLEGE OF MEDICINE, 1200 MOURSUND AVENUE, HOUSTON, TEX. Lipid metabolism--Transport by lateral diffusion (human, rabbit, cattle).

R01HL-15655-05 (HED) POWER, GORDON G, LOMA LINDA UNIVERSITY, SCHOOL OF MEDICINE, LOMA LINDA, CALIF. Blood flow and gas exchange in placenta and lungs (sheep) rabbits).

R01HL-15659-05 (CVA) BELLVILLE, J WELDON, UNIVERSITY OF CALIFORNIA, DEPARTMENT OF ANESTHESIOLOGY, LOS ANGELES, CALIF. Dynamic isolation studies of control of respiration (human).

R01HL-15668-06 (SGYB) UPDIKE, STUART J, UNIVERSITY HOSPITALS, 130D UNIVERSITY AVENUE, MADISON, WIS. Extracorporeal respiratory gas exchange--A new approach (dogs).

R01HL-15676-06 (SGYA) SIEGEL, JOHN H, BUFFALO GENERAL HOSPITAL, 10D HIGH STREET, BUFFALO, N Y. The role of occult myocardial failure in human shock (human, dogs).

R01HL-15677-06 (CVA) MATHE, ALEKSANDER A, BOSTON UNIVERSITY, 8D EAST CONCORD STREET, BOSTON, MASS. Autonomic nervous system function in bronchial asthma (human, guinea pig, rabbit).

R01HL-15679-06 (BBCB) ROBSON, RICHARD M, IOWA STATE UNIVERSITY, MUSCLE BIOLOGY GROUP, AMES, IOWA. Heart and smooth muscle contractile protein (swine, cattle, rabbits, chickens).

R01HL-15681-06 (CVA) FOLTS, JOHN D, CARDIOVASCULAR RES LABORATORY, 42D N CHARTER STREET, RM 523, MADISON, WIS. Coronary flow studies of partially obstructed vessels (dogs).

R01HL-15685-05 (HEM) CRONKITE, EUGENE P, BROOKHAVEN NATIONAL LABORATORY, MEDICAL DEPARTMENT, UPTON, N Y. Hemopoietic regulators produced in cell culture (human, animals).

R01HL-15690-07 (HEM) DONALDSON, VIRGINIA H, CHILDREN'S HOSPITAL RES FDN, ELLAND & BETHESDA AVENUES, CINCINNATI, OHIO. Hydrolytic enzymes of blood in health and disease (human, animals).

R01HL-15692-07 (PHY) WEBER, ANNEMARIE A, UNIVERSITY OF PENNSYLVANIA, DEPARTMENT OF BIOCHEMISTRY, G3, PHILADELPHIA, PA. Force and speed in skeletal and cardiac muscle.

R01HL-15694-06 (CVA) LLOYD, THOMAS C, JR, INDIANA UNIVERSITY, 110D W MICHIGAN STREET, INDIANAPOLIS, IND. Pulmonary factors in circulatory regulation.

R01HL-15696-06 (PHRA) KUO, JYH-FA, EMORY UNIVERSITY, DEPARTMENT OF PHARMACOLOGY, ATLANTA, GA. Mechanism and role of cyclic GMP in heart (animals).

R01HL-15698-12 (PHRA) WOSILAIT, WALTER D, UNIVERSITY OF MISSOURI, DEPARTMENT OF PHARMACOLOGY, COLUMBIA, MO. Factors affecting the action of anticoagulants (rats, human).

R01HL-1S722-06 (CVB) MEISELMAN, HERBERT J, UNIV DF SOUTHERN CALIFDRNIA, 2025 ZDNAL AVENUE, LOS ANGELES, CALIF. Hemorrheology studies related to in vivo blood flow (human).

R01HL-1S728-06 (HEM) NELSESTUEN, GARY L, UNIVERSITY DF MINNESDTA, 140 GORTNER LABORATDRY, ST PAUL, MINN. The carbohydrate of the blood-clotting glycoproteins (mammals).

R01HL-1S740-06 (CVA) BERNS, MICHAEL W, UNIVERSITY DF CALIFDRNIA, DEVELDPMENTAL AND CELL BIDLDGY, IRVINE, CALIF. In vitro studies on heart cell function (rats).

R01HL-1S75B-06 (CVB) LEVY, MATTHEW N, MT SINAI HDSPITAL, 1800 E 105 STREET, CLEVELAND, DHID. Catecholamine release in the heart (dogs).

R01HL-1S764-0S (CVA) KIRCHBERGER, MADELEINE A, MOUNT SINAI HOSPITAL, FIFTH AVENUE & 100TH STREET, NEW YDRK, N Y. C-AMP dependent protein kinase in cardiac contraction (dogs).

R01HL-1S781-06 (RAD) HILAL, SADEK K, NEURDLDGICAL INSTITUTE, 710 W 168TH STREET, NEW YORK, N Y. Guided vascular obliteration of CNS vascular lesions (human).

R01HL-1S790-06 (EDC) MOSS, ARTHUR J, UNIVERSITY DF RDCHESTER, 601 ELMWODD AVENUE, RDCHESTER, N Y. Follow-up study of acute coronary heart attacks (human).

R01HL-15793-06 (HEM) JOHNSON, ROBERT M, WAYNE STATE UNIVERSITY, 540 E CANFIELD, DETRDIT, MICH. Molecular aspects of erythrocyte membrane resealing (human).

R01HL-1S797-0S (PTHA) HAYES, KENNETH C, HARVARD SCHODL OF PUBLIC HLTH, 665 HUNTINGTON AVENUE, BDSTON, MASS. Lipid metabolism and atherosclerosis in primates (monkeys, human, squirrels).

R01HL-15799-04 (SGYA) PRICE, HENRY L, HAHNEMANN MED CDLL & HOSP, 235 N 15TH ST, PHILADELPHIA, PA. Effect of anesthetics on myocardial function (cats).

R01HL-1S805-06 (PHRA) BEVAN, JOHN A, UNIVERSITY DF CALIFDRNIA, DEPT OF PHARMACDLDGY, LDS ANGELES, CALIF. Cerebral arterial tone and reactivity (rabbits).

R01HL-1S808-06 (CVB) PRINTZ, MORTON P, UNIV DF CALIF, SAN DIEGD, DEPARTMENT OF MEDICINE, LA JOLLA, CALIF. Role of angiotensinogen in hypertension and stroke (human, rabbits).

R01HL-15810-06 (CVB) COHEN, JORDAN J, NEW ENGLAND MEDICAL CTR HDSP, 171 HARRISON AVENUE, BOSTDN, MASS. Electrolyte physiology and respiratory acid-base (dogs).

R01HL-15B13-0S (SGYA) HEWITT, ROBERT L, TULANE UNIVERSITY, 1430 TULANE AVENUE, NEW DRLEANS, LA. Cardiac anoxia--Protective effect of carbohydrate (dogs).

R01HL-1SB17-06 (HEM) COLE, EDMOND R, RUSH-PRESBY-ST LUKE'S MED CTR, 1753 WEST CDNGRESS PARKWAY, CHICAGD, ILL. Plasminogen activators from tissues (human, pig, cattle).

P01HL-15832-06 (HLBB) TURINO, GERARD M, CDLUMBIA UNIVERSITY, 630 WEST 168TH STREET, NEW YDRK, N Y. Chemical-structural predispositions to lung injury.

P01HL-15832-06 0001 (HLBB) MANDL, INES. Chemical-structural predispositions to lung injury--Chemical composition of lung connective tissue proteins (human, animals).

P01HL-1SB32-06 0002 (HLBB) GODMAN, GABRIEL C. Chemical-structural predispositions to lung injury--Connective tissue in lung in development and repair of injury (human, rats, mice).

P01HL-1S832-06 0004 (HLBB) TURIO, GERALD M. Chemical-structural predispositions to lung injury--Proteolytic activity leucocytes in patients with obstructive lung disease.

P01HL-1S832-06 000S (HLBB) SKALAK, RICHARD. Chemical-structural predispositions to lung injury--Pulmonary structure and stress-strain relationships (rats).

P01HL-15832-06 0007 (HLBB) GREENBAUM, LOWELL M. Chemical-structural predispositions to lung injury--Inactivation of vasoactive agents by the lung (human, rats, cats, dogs).

P01HL-15832-06 0008 (HLBB) MANDL, INES. Chemical-structural predispositions to lung injury--Interstitial fibrosis--Connective tissue components in normal and diseased lungs.

P01HL-15832-06 0009 (HLBB) MANDL, INES. Chemical-structural predispositions to lung injury--Immunology--Enzyme degradation products of human lung elastin and microfibril.

P01HL-1SB32-06 0010 (HLBB) GREENBAUM, LOWELL M. Chemical-structural predispositions to lung injury--Kinin generating systems in pulmonary disease (human, animals).

P01HL-15B32-06 0011 (HLBB) HEINEMAN, HENRY O. Chemical-structural predispositions to lung injury--Interaction of cell receptors with vasoactive agents in pulmonary vascular bed.

P01HL-15B32-06 0012 (HLBB) GODMAN, GABRIEL C. Chemical-structural predispositions to lung injury--Contractile structures and contractility in cells of lung respiratory tract.

P01HL-15832-06 9001 (HLBB) PARSHLEY, MARY S. Chemical-structural predispositions to lung injury--Tissue culture studies of lung cell function--Core facility.

P01HL-1583S-06 (HLBA) SOMLYO, ANDREW P, 51 NDRTH 39TH STREET, PHILADELPHIA, PA. Study of muscles related to heart disease.

P01HL-1583S-06 0001 (HLBA) WEBER, ANNEMARIE. Study of muscles related to heart disease--Control of contraction-relaxation of heart and muscle (rabbits, chickens).

P01HL-1S835-06 0002 (HLBA) IYENGAR, M RAJA. Study of muscles related to heart disease--Proteins of smooth muscle system (cattle, rabbits).

P01HL-1S835-06 0004 (HLBA) NACHMIAS, VIVIANNE T. Study of muscles related to heart disease--Actomyosin systems and cell motility (slime molds, human).

P01HL-1583S-06 0006 (HLBA) PEPE, FRANK A. Study of muscles related to heart disease--Ultrastructural and chemical studies of muscle (animals).

P01HL-1583S-06 0007 (HLBA) LEVINE, RHEA J C. Study of muscles related to heart disease--Structure and function of Limulus striated and cardiac muscle.

P01HL-1SB3S-06 0009 (HLBA) HOLTZER, HOWARD. Study of muscles related to heart disease--Aspects of cardiac and skeletal myogenesis (chick embryo).

P01HL-1583S-06 0010 (HLBA) KELLY, ALAN M. Study of muscles related to heart disease--Muscle structure and reaction to injury (mice, rats).

P01HL-1583S-06 0011 (HLBA) DAVIES, ROBERT E. Study of muscles related to heart disease--Energetics and mechanism of muscle contraction (frogs, rabbits).

P01HL-15835-06 0012 (HLBA) SIEGMAN, MARION J. Study of muscles related to heart disease--Contraction and energetics of visceral and vascular smooth muscles (rabbits).

P01HL-1S835-06 0013 (HLBA) CHANCE, BRITTON. Study of muscles related to heart disease--Cardiac bioenergetics (rats).

P01HL-1SB3S-06 0018 (HLBA) BIANCHI, C PAUL. Study of muscles related to heart disease--Pharmacology of excitation coupling in muscle (frog, barnacles).

P01HL-15835-06 0019 (HLBA) SOMLYO, ANDREW P. Study of muscles related to heart disease--Vascular smooth muscle--Electron microscopy, excitation contraction (animal).

P01HL-1SB35-06 0021 (HLBA) SCARPA, ANTONIO. Study of muscles related to heart disease--Fast kinetic studies in muscle subcellular organelles (animals).

P01HL-15835-06 0023 (HLBA) WINEGRAD, SAUL. Study of muscles related to heart disease--Cellular basis of the Frank-Starling curve (frogs, rats).

P01HL-1SB35-06 0025 (HLBA) CHACKO, SAMUEL. Study of muscles related to heart disease--Cellular biology of vascular smooth muscle (guinea pig).

P01HL-1SB35-06 0027 (HLBA) PEPE, FRANK A. Study of muscles related to heart disease--Core II--Intermediate voltage EM of muscle.

R01HL-1S837-06 (CVB) TARAZI, ROBERT C, CLEVELAND CLINIC FDUNDATIDN, 9500 EUCLID AVENUE, CLEVELAND, DHID. Renin and cardiac hypertrophy in hypertension (rats).

R01HL-15839-0S (CVB) CARRETERO, OSCAR A, HENRY FDRD HDSPITAL, 2799 WEST GRAND BDULEVARD, DETRDIT, MICH. Physiological role of isorenin and kallikrein (animals).

R01HL-1S840-02 (NTN) NAKAMURA, ROBERT M, DEPT DF ANIMAL SCIENCES, UNIVERSITY DF HAWAII, HDNDLULU, HAWAII. Sugar-induced heart lesions and vitamin K deficiency (birds, mammals subhuman).

R01HL-1SBS2-06 (CVB) JONES, ALLAN W, UNIVERSITY DF MISSOURI, M-412 MEDICAL SCIENCES BLDG, CDLUMBIA, MD. Vascular ion transport and hypertensive mechanisms.

R01HL-1S8B7-0S (HEM) LAWSON, WILLIAM B, NEW YORK STATE DEPT DF HEALTH, EMPIRE STATE PLAZA, ALBANY, N Y. Enzymes of blood coagulation and fibrinolysis (human).

R01HL-158B8-05 (CVA) BOSSEN, EDWARD H, DUKE UNIVERSITY, DEPARTMENT DF PATHDLDGY, DURHAM, N C. Comparative stereology of the myocardium (birds, mammals).

R01HL-15892-05 (BIO) LASKOWSKI, MICHAEL, SR, RDSWELL PARK MEM INSTITUTE, 666 ELM STREET, BUFFALD, N Y. Inhibitors of proteinases (human, cattle, swine).

R01HL-1SB9S-0S (MET) BRESLOW, JAN L, CHILDREN'S HDSPITAL, 300 LONGWDDD AVENUE, BDSTON, MASS. In vitro study of lipoproteins in vascular disease (human, animals).

R01HL-1S930-06 (MET) MARGOLIS, SIMEON, JDHNS HDPKINS SCHDDL DF MED, 725 N WOLFE STREET, BALTIMDRE, MD. Hormonal control of lipid and lipoprotein synthesis (rats).

R01HL-1S949-0S (MET) BILHEIMER, DAVID W, UNIVERSITY DF TEXAS, 5323 HARRY HINES BDULEVARD, DALLAS, TEX. Lipoprotein metabolism in relation to atherosclerosis (human, baboons).

R01HL-15958-06 (BBCB) TSERNOGLOU, DEMETRIUS, 540 EAST CANFIELD, DETRDIT, MICH, DETRDIT, MINN. X-ray diffraction analysis of thrombin and neurotoxin.

R01HL-1S965-06 (PTHA) RUCKER, ROBERT B, UNIVERSITY DF CALIFORNIA, DEPARTMENT DF NUTRITION, DAVIS, CALIF. Experimental atherosclerosis and elastin metabolism (chicks).

R01HL-1S979-0S (PC) BAUMSTARK, JOHN S, CREIGHTDN UNIVERSITY, 10TH & CASTELAR STREETS, DMAHA, NEBR. Elastase, serum inhibitors and the vasculature (human, swine).

R01HL-1S980-06 (BBCB) CAUGHEY, WINSLOW S, CDLORADO STATE UNIVERSITY, DEPARTMENT DF BIDCHEMISTRY, FDRT CDLLINS, COLD. Reactions of hemeproteins and oxygen (cattle).

R01HL-1S983-04 (CVB) YIPINTSOI, TADA, MDNTEFIDRE HDSP & MEDICAL CTR, 111 EAST 210TH STREET, BRDNX, N Y. Regional myocardial blood flow (dogs).

R01HL-1S985-06 (PHRA) BROOKER, GARY, UNIVERSITY OF VIRGINIA, DEPARTMENT OF PHARMACDLDGY, CHARLDTTESVILLE, VA. Metabolic and hormonal control of cardiac contraction.

R01HL-1S991-05 (PHRA) NORTON, TED R, UNIVERSITY OF HAWAII, 3675 KILAUEA AVENUE, HDNDLULU, HAWAII. Evaluation of heart stimulants in sea anemones.

P60HL-1S996-06 (SRC) LAMPKIN, BEATRICE C, CHILDREN'S HOSP RES FDN, ELLANO & BETHESDA AVENUE, CINCINNATI, DHID. Cincinnati comprehensive sickle cell center.

P60HL-1S996-06 0001 (SRC) GRUPPO, RALPH A. Cincinnati comprehensive sickle cell center--Coagulation mechanisms in sickle cell disease (human).

P60HL-1S996-06 0003 (SRC) LAMPKIN, BEATRICE. Cincinnati comprehensive sickle cell center--Prophylactic penicillin in treatment of sickle cell anemia (human).

P60HL-1S996-06 0004 (SRC) HUFFMAN, ANN. Cincinnati comprehensive sickle cell center--School adjustment of sickle cell patients.

P60HL-1S996-06 000S (SRC) CHRISTIAN, EMILY. Cincinnati comprehensive sickle cell center--Factors precipitating crises (human).

P60HL-15996-06 0006 (SRC) COX, EMMA. Cincinnati comprehensive sickle cell center--Education.

P60HL-1S996-06 0007 (SRC) LAMPKIN, BEATRICE. Cincinnati comprehensive sickle cell center--Screening and counseling.

P60HL-1S996-06 0008 (SRC) LAMPKIN, BEATRICE. Cincinnati comprehensive sickle cell center--Patient care (children, adults).

P60HL-1S996-06 0009 (SRC) LAMPKIN, BEATRICE. Cincinnati comprehensive sickle cell center--Insurance coverage of persons with sickle cell trait and disease.

P60HL-1S996-06 0010 (SRC) GRUPPO, RALPH A. Cincinnati comprehensive sickle cell center--Whole blood viscosity in sickle cell anemia (human).

P60HL-1S999-0S (HEPB) HARKNESS, DONALD R, UNIVERSITY DF MIAMI SCH OF MED, P D BDX 520875 BISCAYNE ANNEX , MIAMI, FLA. Miami comprehensive sickle cell center.

P60HL-1S999-0S 0004 (HEPB) DAVIES, JOHN E. Miami comprehensive sickle cell center--Education, screening and counseling.

P60HL-15999-0S 000S (HEPB) HARKNESS, DONALD R. Miami comprehensive sickle cell center--Sickle cell clinic.

P60HL-15999-05 0008 (HEPB) RATZAN, KENNETH R. Miami comprehensive sickle cell center--Cyanate effect on host defense--Cellular and humoral (human, guinea pig, rabbits).

P60HL-15999-05 0014 (HEPB) CAMERON, BRUCE F. Miami comprehensive sickle cell center--Biochemical and morphological parameters of sickle cells (human).

P60HL-15999-05 0019 (HEPB) ZUCKER, ROBERT M. Miami comprehensive sickle cell center--Fetal-adult hemoglobin switch (mouse, monkey).

P60HL-15999-05 0020 (HEPB) SCHULTZ, OUANE R. Miami comprehensive sickle cell center--Deficiency in complement-dependent humoral immunity--Sickle cell disease (human).

P60HL-15999-05 0021 (HEPB) HARKNESS, DONALO R. Miami comprehensive sickle cell center--Diphosphonates--Erythrocyte calcium loading, maturation (human, chick embryo).

R01HL-16003-08 (PHRA) TRIGGLE, OAVID J, S U N Y -AT BUFFALO, 224 CARY HALL, BUFFALO, N Y. Sources and roles of calcium in smooth muscle excitation (rats).

P60HL-16005-05 (SRC) BOWMAN, JAMES E, UNIVERSITY OF CHICAGO, 95D EAST 59TH STREET, CHICAGO, ILL. Comprehensive sickle cell center.

P60HL-16005-05 0001 (SRC) WARREN, SHIRLEY. Comprehensive sickle cell center--Demonstration--Community service component.

P60HL-16005-05 0013 (SRC) GOLOWASSER, EUGENE. Comprehensive sickle cell center--Study of regulation of erythropoiesis in vitro (human, rat, hamster, rabbit).

P60HL-16005-05 0015 (SRC) SIGLER, PAUL B. Comprehensive sickle cell center--Molecular basis for the sickling phenomenon.

P60HL-16005-05 001B (SRC) KOSHY, MABEL. Comprehensive sickle cell center--Comprehensive study--Natural history of sickle cell disease in adults (human).

P60HL-16005-05 0019 (SRC) LEVINSON, OENNIS J. Comprehensive sickle cell center--Handling of uric acid in sickle cell anemia (human).

P60HL-16005-05 0020 (SRC) CHILCOTE, ROBERT R. Comprehensive sickle cell center--Studies of the immunologic defect in sickle cell anemia (human).

P60HL-16005-05 0021 (SRC) KOSHY, MABEL. Comprehensive sickle cell center--Management of pregnancy in sickle cell anemia (human).

P60HL-16005-05 0022 (SRC) FRIED, WALTER. Comprehensive sickle cell center--Regulation of erythropoiesis in patients with sickle cell anemia.

P60HL-16005-05 9001 (SRC) BOWMAN, JAMES E. Comprehensive sickle cell center--Core laboratory and counseling (human).

P60HL-1600B-06 (SRC) WHITTEN, CHARLES F, CHILOREN'S HOSPITAL, 3901 BEAUBIEN BLVD, OETROIT, MICH. Wayne State University comprehensive sickle cell center.

P60HL-1600B-06 0001 (SRC) WHITTEN, CHARLES F. Wayne State University comprehensive sickle cell center--Patient care system (children, adults).

P60HL-1600B-06 0009 (SRC) WHITTEN, CHARLES F. Wayne State University comprehensive sickle cell center--Natural history of sickle cell anemia (human).

P60HL-1600B-06 0011 (SRC) JONES, PERRY. Wayne State University comprehensive sickle cell center--Education, screening and counseling.

P60HL-16008-06 0012 (SRC) SING, CHARLES F. Wayne State University comprehensive sickle cell center--Central data management--Computer system.

P60HL-1600B-06 0014 (SRC) BREWER, GEORGE J. Wayne State University comprehensive sickle cell center--Zinc and red blood cell metabolism in sickle cell anemia (rats, human).

P60HL-16008-06 0015 (SRC) PRASAO, ANANDA S. Wayne State University comprehensive sickle cell center--Trace elements in sickle cell disease (human).

P60HL-1600B-06 0016 (SRC) SIGN, CHARLES F. Wayne State University comprehensive sickle cell center--Red blood cell glycolysis in sickle cell patients.

P60HL-1600B-06 0017 (SRC) MIZUKAMI, HIROSHI. Wayne State University comprehensive sickle cell center--Oxygen transport kinetics of pre- and post-sickling cells (human).

P60HL-1600B-06 001B (SRC) JOHNSON, ROBERT M. Wayne State University comprehensive sickle cell center--Hemoglobin S and RBC membranes--Pathogenesis of irreversibly sickled cells.

P60HL-1600B-06 0019 (SRC) FROST, PHILIP. Wayne State University comprehensive sickle cell center--Cell mediated immunity in sickle cell anemia (human).

P60HL-1600B-06 0020 (SRC) RUCKNAGEL, OONALO L. Wayne State University comprehensive sickle cell center--Genetic and physiological studies of sickle cell anemia (human).

R01HL-16010-16 (PHY) WINEGRAD, SAUL, UNIVERSITY OF PENNSYLVANIA, DEPARTMENT OF PHYSIOLOGY, PHILAOELPHIA, PA. Cellular basis of cardiac contractility (frogs).

R01HL-16022-05 (AFY) EDELMAN, NORMAN H, COLLEGE OF MEOICINE, POST OFFICE BOX 1D1, PISCATAWAY, N J. Oeterminants of the ventilatory response to hypoxia (goats, cats).

R01HL-16029-05 (TOX) PRYOR, WILLIAM A, LOUISIANA STATE UNIVERSITY, OEPARTMENT OF CHEMISTRY, BATON ROUGE, LA. Bio-organic chemistry of ozone, nitrogen dioxide and tobacco smoke.

R01HL-16037-06 (PHRA) LEFKOWITZ, ROBERT J, OUKE UNIVERSITY, MEOICAL SCIENCE BLOG 1B, OURHAM, N C. Molecular properties of cardiac adrenergic receptors.

R01HL-16052-05 (CVB) AKERA, TAI, MICHIGAN STATE UNIVERSITY, B445 LIFE SCIENCE BUILOING, EAST LANSING, MICH. Cardiac glycosides--Mechanism of inotropic action (dogs).

R01HL-16059-06 (MET) JONAS, ANA, UNIVERSITY OF ILLINOIS, 517 MEOICAL SCIENCES BUILOING , URBANA, ILL. Structure and function of serum lipoproteins (cattle, human).

R01HL-16066-05 (CVA) HEISTAD, DONALD O, UNIVERSITY OF IOWA HOSPITALS, DEPARTMENT OF INTERNAL MED, IOWA CITY, IOWA. Studies on neurogenic control of the circulation (human, dogs).

R01HL-16076-06 (CVA) MOORE, E NEIL, UNIVERSITY OF PENNSYLVANIA, 38D0 SPRUCE STREET, PHILAOELPHIA, PA. Electrophysiology of fibrillation and defibrillation (human).

R01HL-160B7-05 (BBCB) LA MAR, GERD N, UNIVERSITY OF CALIFORNIA, OEPARTMENT OF CHEMISTRY, OAVIS, CALIF. Structural and dynamic study of model heme complexes (yeast).

R01HL-16093-05 (BBCB) OLSON, JOHN S, RICE UNIVERSITY, DEPARTMENT OF BIOCHEMISTRY, HOUSTON, TEX. Functional properties of hemoglobin and erythrocytes.

R01HL-16094-06 (CVA) FRIEDMAN, JULIUS J, INDIANA UNIVERSITY, 1100 WEST MICHIGAN STREET, INOIANAPOLIS, INO The dynamics of microcirculatory function (dogs)

R01HL-16101-05 (BBCB) GENNIS, ROBERT B, UNIVERSITY OF ILLINOIS, BOX 15, URBANA, ILL Protein-lipid interaction (bacteria, models)

P01HL-16117-05 (HEP) PRESSMAN, BERTON C, UNIVERSITY OF MIAMI, P O BOX 520875, MIAMI, FLA Ion movements and membranes in cardiovascular control.

P01HL-16117-05 0001 (HEP) BAERWALD, ROY J. Ion movements and membranes in cardiovascular control--Developmental studies of contractile cell junctions (rats, rabbits, elasmobranch).

P01HL-16117-05 0002 (HEP) CASWELL, ANTHONY P. Ion movements and membranes in cardiovascular control--Fluorescence and excitation-contraction coupling in heart (frogs).

P01HL-16117-05 0003 (HEP) HAYNES, DUNCAN. Ion movements and membranes in cardiovascular control--Fast kinetic study of calcium membrane interactions.

P01HL-16117-05 0004 (HEP) LANDOWNE, OAVID. Ion movements and membranes in cardiovascular control--Optical studies of excitation-contraction coupling (trogs, snakes).

P01HL-16117-05 0005 (HEP) PALMER, ROGER F. Ion movements and membranes in cardiovascular control--Properties of isolated cell membranes (rabbits, cats).

P01HL-16117-05 0006 (HEP) POTTER, LINCOLN T. Ion movements and membranes in cardiovascular control--Neuroreceptors and cellular excitation (fish).

P01HL-16117-05 0007 (HEP) PRESSMAN, BERTON C. Ion movements and membranes in cardiovascular control--Physiological and molecular properties of ionophores (dogs, rabbits).

P01HL-16117-05 000B (HEP) VANBREEMEN, CORNELIS. Ion movements and membranes in cardiovascular control--Arterial smooth muscle calcium fluxes and contractility (rabbits).

P01HL-1611B-06 (HLBB) PIERCE, JOHN A, WASHINGTON UNIVERSITY, 66D SOUTH EUCLIO, ST LOUIS, MO. Study of emphysema.

P01HL-1611B-06 0003 (HLBB) STARCHER, BARRY C. Study of emphysema--Oegradation of collagen and elastin (human, hamsters, mice).

P01HL-1611B-06 0004 (HLBB) SENIOR, ROBERT M. Study of emphysema--Metabolic activity of pulmonary connective tissue (human, hamsters).

P01HL-1611B-06 0005 (HLBB) KUHN, CHARLES, III. Study of emphysema--Mechanisms of elastase emphysema (mice).

P01HL-1611B-06 0006 (HLBB) YU, SHIU YEH. Study of emphysema--Metabolism of elastin (hamsters).

R01HL-16119-05 (SGYB) HARRISON, DAVID E, JACKSON LABORATORY, BAR HARBOR, MAINE. Spleen and marrow allografts in hereditary anemia (mice).

R01HL-16135-05 (CVA) HOGAN, PERRY M, S U N Y, OEPARTMENT OF PHYSIOLOGY, BUFFALO, N Y. Mechanisms of cardiac autorhythmicity (dogs, bats).

P01HL-16137-05 (HEP) SCARPELLI, EMILE M, ALBERT EINSTEIN COLL OF MEO, 1300 MORRIS PARK AVENUE, BRONX, N Y. Alveolar biology.

P01HL-16137-05 0001 (HEP) COLACICCO, GIUSEPPE. Alveolar biology--Chemical characterization of surfactant system--Lipid and lipid protein fractions.

P01HL-16137-05 0004 (HEP) FROSOLONO, MICHAEL F. Alveolar biology--Subcellular processes and controls in the surfactant system (animals).

P01HL-16137-05 000B (HEP) WITTNER, MURRAY. Alveolar biology--Macromolecular events in pulmonary cells in toxic environments (animals).

P01HL-16137-05 0013 (HEP) CONDORELLI, SALVATORE. Alveolar biology--Development and pathology of surfactant--Formation of alveolar (rabbits, sheep).

R01HL-16150-05 (HEM) MANN, KENNETH G, MAYO FOUNOATION, 2DD FIRST STREET SOUTHWEST, ROCHESTER, MINN. Primary structure of prothrombin (cattle, human).

R01HL-16152-06 (CVA) MORAO, MARTIN, UNIVERSITY OF PENNSYLVANIA, 37TH & HAMILTON WALK, PHILADELPHIA, PA. Electrophysiology of neonatal to adult heart (cats, frogs, guinea pigs).

R01HL-16154-05 (SGYA) ZAPOL, WARREN M, MASSACHUSETTS GENERAL HOSPITAL, ANESTHESIA OEPARTMENT, BOSTON, MASS. Membrane lung perfusion for acute respiratory failure (sheep, baboons).

R01HL-16166-05 (BBCA) CHAN, SHUNG K, UNIVERSITY OF KENTUCKY, OEPARTMENT OF BIOCHEMISTRY, LEXINGTON, KY. Structure of alpha-1-antitrypsin in relation to emphysema (human).

R01HL-16206-04 (CVB) OEPALMA, RALPH G, UNIVERSITY HOSPS OF CLEVELANO, 2D65 ADELBERT ROAO, CLEVELANO, OHIO. Regression of atherosclerotic plaques (monkeys, dogs).

R01HL-16219-05 (CVB) BAGDAOE, JOHN O, PROVIOENCE MEOICAL CENTER, 5D0 17TH AVE, C-34DD8, SEATTLE, WASH. Mechanisms of atherogenesis in chronic uremia (human, rats).

R01HL-16233-05 (CVB) BONILLA, CARLOS A, COLORAOO STATE UNIVERSITY, OEPT OF PHYSIO & BIOPHYSICS, FORT COLLINS, COLO. Molecular cardiology of MOP-induced left ventricular failure (dogs).

R01HL-16236-04 (CVA) NEREM, ROBERT M, OHIO STATE UNIVERSITY, 1900 COFFEY ROAO, COLUMBUS, OHIO. Oetailed characteristics of coronary blood flow (horses, dogs, calves).

R01HL-1623B-05 (HEM) MAGNUSSON, STAFFAN M, AARHUS UNIVERSITET, OEPT OF MOLECULAR BIOLOGY, ARHUS, DENMARK. Protein structure in coagulation and fibrinolysis (human).

R01HL-16240-05 (CVB) HUGHES, MAYSIE J, TEXAS TECH UNIVERSITY, POST OFFICE BOX 4569, LUBBOCK, TEX. The cardiac histamine receptor (rabbits, guinea pigs).

R01HL-16246-06 (SGYA) ENGLE, MARY A, CORNELL UNIVERSITY, 1300 YORK AVENUE, NEW YORK, N Y. Immunologic studies in postpericardiotomy syndrome (human).

P01HL-16251-06 (HLBA) SINGER, THOMAS P, VETERANS AOMINISTRATION HOSP, 415D CLEMENT STREET, SAN FRANCISCO, CALIF. Membrane-bound enzymes in heart and other tissues.

P01HL-16251-06 0001 (HLBA) KENNEY, WILLIAM C. Membrane-bound enzymes in heart and other tissues--Structure of covalently bound flavins (bacteria, yeast, mammals).

P01HL-16251-06 0002 (HLBA) KENNEY, WILLIAM C. Membrane-bound enzymes in heart and other tissues--Structural basis of regulation of cardiac succinate dehydrogenase.

P01HL-16251-06 0003 (HLBA) KEARNEY, EONA B. Membrane-bound enzymes in heart and other tissues--Regulation of cardiac succinate dehydrogenase (yeasts, mammals).

P01HL-16251-06 0004 (HL8A) KEARNEY, EDNA 8. Membrane-bound enzymes in heart and other tissues--Biosynthesis and degradation of succinate dehydrogenase, histidyl (yeast, mammal).

P01HL-16251-06 0007 (HLBA) SINGER, THOMAS P. Membrane-bound enzymes in heart and other tissues--Flavins and flavoproteins.

P01HL-16251-06 0008 (HLBA) SINGER, THOMAS P. Membrane-bound enzymes in heart and other tissues--Iron-sulfur centers and phospholipids modulation of succinate dehydrogenase.

P01HL-16251-06 0009 (HLBA) SINGER, THOMAS P. Membrane-bound enzymes in heart and other tissues--NADH dehydrogenase and site I of oxidative phosphorylation (yeast).

P01HL-16251-06 0010 (HLBA) SINGER, THOMAS P. Membrane-bound enzymes in heart and other tissues--Reversible activation of L-amino acid oxidase (snakes).

R01HL-16254-05 (AFY) SMITH, LYNWOOD S, UNIVERSITY OF WASHINGTON, FISHERIES RESEARCH INST, WH-10, SEATTLE, WASH. Pathogenesis of bubble and clot formation (fish).

R01HL-16260-04 (RAD) GRAMIAK, RAYMOND, UNIVERSITY OF ROCHESTER, 601 ELMWOOD AVENUE, ROCHESTER, N Y. Development of clinical cine ultrasound cardiography.

R01HL-16292-05 (SGYA) BUCKBERG, GERALD D, UNIVERSITY OF CALIFORNIA, DIV OF THORACIC SURGERY, LOS ANGELES, CALIF. Surgery and non-obstructive coronary insufficiency.

R01HL-16292-05 0002 (SGYA) MALONEY, JAMES V, JR. Surgery and non-obstructive coronary insufficiency--Effects of hypothermia during cardiopulmonary bypass (dogs).

R01HL-16292-05 0009 (SGYA) MALONEY, JAMES V, JR. Surgery and non-obstructive coronary insufficiency--Exercise and supply-demand balance (human).

R01HL-16292-05 0010 (SGYA) MALONEY, JAMES V, JR. Surgery and non-obstructive coronary insufficiency--Effects of exercise on flow distribution (dogs).

R01HL-16292-05 0017 (SGYA) BUCKBERG, GERALD D. Surgery and non-obstructive coronary insufficiency--Cardiopulmonary resuscitation (human).

R01HL-16292-05 0018 (SGYA) BUCKBERG, GERALD D. Surgery and non-obstructive coronary insufficiency--Unavoidable subendocardial perfusion caused by venting and hypothermia (dogs).

R01HL-16292-05 0019 (SGYA) BUCKBERG, GERALD D. Surgery and non-obstructive coronary insufficiency--Distortion of subendocardial vessels in infant hearts (dogs).

R01HL-16292-05 0020 (SGYA) BUCKBERG, GERALD D. Surgery and non-obstructive coronary insufficiency--Limitation of transthoracic ECG in detecting subendocardial ischemia (dogs).

R01HL-16292-05 0021 (SGYA) BUCKBERG, GERALD D. Surgery and non-obstructive coronary insufficiency--Pulsatile assistance on subendocardial perfusion during bypass (dogs).

R01HL-16294-04 (MET) WATSON, JOHN A, UNIVERSITY OF CALIFORNIA, DEPT OF BIOCHEM & BIOPHYSICS, SAN FRANCISCO, CALIF. Effectors of cholesterol synthesis (rats).

R01HL-16315-05 (CVB) SCHRAMM, LAWRENCE P, JOHNS HOPKINS UNIVERSITY, BIOMEDICAL ENGINEERING DEPT, BALTIMORE, MD. Analysis of interaction between CNS vasomotor systems (cats, rats).

R01HL-1631B-21 (PHRA) HOKIN, LOWELL E, UNIVERSITY OF WISCONSIN, 426 N CHARTER STREET, MADISON, WIS. Biochemistry and pharmacology of Na-K transport.

R01HL-16320-05 (PHRA) ERDOS, ERVIN G, UNIVERSITY OF TEXAS, 5323 HARRY HINES BOULEVARD, DALLAS, TEX. Vasoactive peptides which stimulate smooth muscles (rats, human).

R01HL-16325-03 (CVA) KRONAUER, RICHARD E, HARVARD UNIVERSITY, 324 PIERCE HALL, CAMBRIDGE, MASS. Breathing patterns in man.

R01HL-1632B-06 (CVA) HERMSMEYER, R KENT, DEPARTMENT OF PHARMACOLOGY, BASIC SCIENCE BUILDING, IOWA CITY, IOWA. Membrane electrical properties of vascular muscle (human, animals).

R01HL-16329-04 (SGY8) JARMAKANI, JAY M, UNIVERSITY OF CALIFORNIA, DEPT OF PEDIATRICS, LOS ANGELES, CALIF. Cardiac surgical effect on heart function in infants (human).

R01HL-16330-06 (PTHA) EVANS, MICHAEL J, SRI INTERNATIONAL, 333 RAVENSWOOD AVENUE, MENLO PARK, CALIF. Aging-tissue injury and repair (rats).

R01HL-16346-09 (HEM) LORAND, LASZLO, NORTHWESTERN UNIVERSITY, BIOCHEM & MOLEC BIOLOGY DEPT, EVANSTON, ILL. Enzyme assay for blood clotting (human).

R01HL-16355-05 (HEM) DETWILER, THOMAS C, S U N Y DOWNSTATE MEDICAL CTR, 450 CLARKSON AVENUE, BROOKLYN, N Y. Reactions of thrombin and collagen with platelets (human).

R01HL-16361-03 (HEM) SHAINOFF, JOHN R, CLEVELAND CLINIC FOUNDATION, 9500 EUCLID AVENUE, CLEVELAND, OHIO. Fibrin complexes in intermediary coagulation (human, rabbits).

R01HL-16364-04 (MET) PORTER, JOHN W, UNIVERSITY OF WISCONSIN, 1215 LINDEN DRIVE, MADISON, WIS. Regulation of lipid biosynthesis and transport (rats, swine, Xenopus).

R01HL-16375-04 (HEM) SIMONS, ELIZABETH R, BOSTON UNIVERSITY, 80 EAST CONCORD STREET, BOSTON, MASS. Investigation of hemoglobin S properties (human).

P01HL-16387-04 (HEP) SPAET, THEODORE H, MONTEFIORE HOSP & MED CENTER, 111 EAST 210TH STREET, BRONX, N Y. The blood vessel and thrombogenesis.

P01HL-16387-04 0002 (HEP) PUSZKIN, ELENA. The blood vessel and thrombogenesis--Hormonal effects on thrombogenesis (rats, rabbits).

P01HL-16387-04 0003 (HEP) SPAET, THEODORE H. The blood vessel and thrombogenesis--Blood vessel healing (rabbits).

P01HL-16387-04 0004 (HEP) HATCHER, VICTOR. The blood vessel and thrombogenesis--Analysis of vascular basement membrane by enzymatic methods (human).

P01HL-16387-04 0005 (HEP) SPAET, THEODORE H. The blood vessel and thrombogenesis--Fluid engineering considerations in thrombogenesis.

P01HL-16387-04 0006 (HEP) LITWAK, ROBERT S. The blood vessel and thrombogenesis--Mechanism of delayed vessel graft failure (dogs, rabbits).

P01HL-16387-04 0008 (HEP) SUSSMAN, IRA I. The blood vessel and thrombogenesis--Factor VIII in hemostasis (human, rabbits).

P01HL-16387-04 0009 (HEP) TIELL, MELVIN L. The blood vessel and thrombogenesis--Role of pituitary gland in the pathogenesis of arteriosclerotic lesions (rats).

R01HL-16390-05 (AFY) GRODINS, FRED S, UNIV OF SOUTHERN CALIFORNIA, UNIVERSITY PARK, LOS ANGELES, CALIF. Cardiopulmonary control coupling in exercise (dogs).

R01HL-16403-05 (EDC) DOYLE, JOSEPH T, ALBANY MEDICAL COLLEGE, NEW SCOTLAND AVENUE, ALBANY, N Y. Prognostication by computer--Analyzed vectorcardiogram (human).

P01HL-16411-04 (HEP) MULLER-EBERHARD, HANS J, RESEARCH INSTITUTE OF SCRIPPS, 10666 N TORREY PINES ROAD, LA JOLLA, CALIF. Blood systems in coagulation and vessel disease.

P01HL-16411-04 0001 (HEP) MULLER-EBERHARD, HANS J. Blood systems in coagulation and vessel disease--Molecular studies of the role of complement in blood coagulation (human, rabbits).

P01HL-16411-04 0002 (HEP) COCHRANE, CHARLES G. Blood systems in coagulation and vessel disease--Early stages of coagulation and cardiovascular disease (human, rabbits).

P01HL-16411-04 0003 (HEP) EDGINGTON, THOMAS S. Blood systems in coagulation and vessel disease--Molecular events involving the late stages of coagulation (rabbits).

P01HL-16411-04 0004 (HEP) MORRISON, DAVID C. Blood systems in coagulation and vessel disease--Platelets reactions in vascular injury (human, animals).

P01HL-16411-04 0005 (HEP) HUGLI, TONY E. Blood systems in coagulation and vessel disease -Chemical analysis of serum components associated with coagulation (human, animal).

P01HL-16411-04 0006 (HEP) ZIMMERMAN, THEODORE S. Blood systems in coagulation and vessel disease--Factor VII--Immunochemistry and immunobiology (human, mice).

R01HL-16412-04 (CVB) FOX, ARTHUR C, NEW YORK UNIVERSITY, 550 FIRST AVENUE, NEW YORK, N Y. Release of nucleosides from the ischemic heart (human, dogs).

R01HL-16419-03 (CVA) GHOSH, SANTIBRATA, NORTHWESTERN UNIVERSITY, 303 EAST CHICAGO AVENUE, CHICAGO, ILL. Arterial uptake of lipoprotein--Kinetic analysis (rabbits).

R01HL-16420-02 (AFY) FULLER, ELLEN O, EMORY UNIVERSITY, DEPARTMENT OF PHYSIOLOGY, ATLANTA, GA. Effect of training-detraining on the rat heart.

R01HL-16421-08 (HEM) LA CELLE, PAUL L, UNIVERSITY OF ROCHESTER, 260 CRITTENDEN BOULEVARD, ROCHESTER, N Y. Determinants of RBC deformability and capillary flow (human, mice).

R01HL-16430-05 (PHY) KNOX, CHARLES K, UNIVERSITY OF MINNESOTA, 315 MILLARD HALL, MINNEAPOLIS, MINN. Neural control of respiration (cats).

R01HL-16436-04 (CVA) HESS, MARILYN E, UNIVERSITY OF PENNSYLVANIA, DEPT OF PHARMACOLOGY, PHILADELPHIA, PA. Role of calcium and thyroxine in heart function (rats).

R01HL-16437-05 (PHRA) HOLLANDER, WILLIAM, UNIVERSITY HOSPITAL, 750 HARRISON AVENUE, BOSTON, MASS. Drug treatment of atherosclerosis (rabbits, monkeys).

R01HL-16445-05 (PC) FULLER, GERALD M, UNIVERSITY OF TEXAS, GALVESTON, TEX. Regulation of plasma protein biosynthesis (rats, rabbits).

R01HL-16454-03 (CV8) STEKIEL, WILLIAM J, MEDICAL COLLEGE OF WISCONSIN, 561 NORTH 15TH STREET, MILWAUKEE, WIS. Vascular muscle reactivity in hypertension (human, rats).

R01HL-16461-05 (EDC) STARR, ALBERT, UNIVERSITY OF OREGON, 3181 S W SAM JACKSON PARK ROAD, PORTLAND, OREG. Late results of valve replacement--Computer analysis (human).

R01HL-16463-05 (CVA) INGRAM, ROLAND H, JR, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Localization of airways obstruction and responses.

R01HL-16471-05 (MCHA) STORK, GILBERT, COLUMBIA UNIVERSITY, BOX 666, HAVEMEYER HALL, NEW YORK, N Y. Cardioactive alloyohimbines and related indole alkaloids.

R01HL-16474-05 (8BCB) FRIEDMAN, HAROLD L, S U N Y - AT STONY BROOK, DEPARTMENT OF CHEMISTRY, STONY BROOK, N Y. Antibiotic-ion interactions (model membranes).

R01HL-16484-04 (RAD) AMPLATZ, KURT, UNIVERSITY OF MINNESOTA, DEPARTMENT OF RADIOLOGY, MINNEAPOLIS, MINN. Radiographic ventriculometry for coronary heart disease (human).

R01HL-16487-05 (RAD) PRYOR, T ALLAN, LATTER-DAY SAINTS HOSPITAL, 325 8TH AVENUE, SALT LAKE CITY, UTAH. Computer controlled two dimensional echocardiography.

R01HL-16489-04 (CVB) OATES, JOHN A, VANDERBILT UNIVERSITY, DEPARTMENT OF PHARMACOLOGY, NASHVILLE, TENN. Renal prostaglandins--Synthesis and function (human, dogs, rats).

R01HL-16490-04 (GMB) AINSWORTH, STERLING K, MEDICAL UNIV OF SOUTH CAROLINA, 171 ASHLEY AVENUE, CHARLESTON, S C. Structural basis of nephron filtration (rats, rabbits).

R01HL-16496-04 (CVB) ROMERO, JUAN C, MAYO FOUNDATION, 200 FIRST STREET SOUTHWEST, ROCHESTER, MINN. Prostaglandins and renin experimental hypertension (rabbits).

R01HL-16507-04 (C8Y) GILULA, NORTON B, ROCKEFELLER UNIVERSITY, 1230 YORK AVENUE, NEW YORK, N Y. Heart cell interactions and cell junction biogenesis (mice, rats, rabbits).

R01HL-16511-04 (CVB) KAMPINE, JOHN P, VETERANS ADMINISTRATION CENTER, 5000 WEST NATIONAL AVENUE, WOOD, WIS. Sympathetic afferent activity of cardiac origin (dogs, monkeys).

R01HL-16512-04 (PC) MEANS, ANTHONY R, BAYLOR COLLEGE OF MEDICINE, 1200 MOURSUND AVENUE, HOUSTON, TEX. Lipoprotein metabolism and hormonal regulation (chickens).

R01HL-16524-02 (MCHA) PORTOGHESE, PHILIP S, UNIVERSITY OF MINNESOTA, COLLEGE OF PHARMACY, MINNEAPOLIS, MINN. Selective inhibitors of prostaglandin biosynthesis (dogs).

R01HL-16549-04 (PHRA) YODA, ATSUNOBU, UNIVERSITY OF WISCONSIN, 371 MEDICAL SCIENCES BUILDING , MADISON, WIS. Cardiotonic steroid-NaK ATPase interactions (cattle).

R01HL-16553-05 (RAD) ATKINS, HAROLD L, BROOKHAVEN NATIONAL LABORATORY, ASSOCIATED UNIV INC, UPTON, N Y. Diagnosis of myocardial infarction by radioisotopes (mice, rats, goats).

R01HL-16567-04 (CV8) DEHAAN, ROBERT L, DEPT OF ANATOMY, EMORY UNIVERSITY, ATLANTA, GA. Differentiation of the heart-cell membrane (mice, chick).

R01HL-16577-04 (MET) SCHOTZ, MICHAEL C, UNIVERSITY OF CALIFORNIA, DEPARTMENT OF MEDICINE, LOS ANGELES, CALIF. Lipoprotein lipase chemistry and function (rats, cattle, human).

R01HL-16580-04 (COM) KING, WILLIAM S, RAND CORPORATION, 1700 MAIN STREET, SANTA MONICA, CALIF Mathematical models for studying sickle-cell disease.

R01HL-16582-05 (SGYB) MOCKROS, LYLE F, NORTHWESTERN UNIVERSITY, DEPT OF CIVIL ENGINEERING, EVANSTON, ILL Artificial lungs (dogs).

R01HL-16587-04 (CVB) MALINOW, MANUEL R, OREGON REC PRIMATE RES CENTER, 505 N W, 185TH AVENUE, BEAVERTON, OREG. Cholesterol binding saponins and atherosclerosis (monkeys).

R01HL-16588-05 (PBC) EHRHART, ALLEN, CLEVELAND CLINIC FOUNDATION, 9500 EUCLID AVENUE, CLEVELAND, OHIO. Collagen synthesis in atherosclerosis (dogs, rats, rabbits, human).

R01HL-16601-05 (BBCB) GREER, JONATHAN, COLUMBIA UNIVERSITY, DEPT OF BIOLOGICAL SCIENCES, NEW YORK, N Y. Structure and function of blood proteins (human, cattle).

R01HL-16603-05 (CVB) PIRANI, CONRAD L, COLUMBIA UNIVERSITY, 630 WEST 168TH ST, NEW YORK, N Y. Human and experimental renal diseases (animals).

R01HL-16606-11 (PHY) JULIAN, FRED J, BOSTON BIOMEDICAL RES INST, 20 STANIFORD STREET, BOSTON, MASS. Contraction in heart and other striated muscles (frogs).

P01HL-16607-05 (HEPA) INESI, GIUSEPPE, UNIVERSITY OF THE PACIFIC, 2155 WEBSTER STREET, SAN FRANCISCO, CALIF. Calcium ion and control of cardiovascular function.

P01HL-16607-05 0001 (HEPA) COHEN, JOEL A. Calcium ion and control of cardiovascular function--Bilayer lipid membranes, antibiotic probes, and SR function.

P01HL-16607-05 0003 (HEPA) INESI, GIUSEPPE. Calcium ion and control of cardiovascular function--Calcium transport in sarcoplasmic membranes (animals).

P01HL-16607-05 0005 (HEPA) MURPHY, ALEXANDER J. Calcium ion and control of cardiovascular function--Chemical modifications of the sarcoplasmic reticulum membranes (rabbits).

P01HL-16607-05 0006 (HEPA) SABBADINI, ROGER. Calcium ion and control of cardiovascular function--Sarcomere and contractile dynamics of striated muscle cells (animals).

P01HL-16607-05 0007 (HEPA) SCALES, DONALD. Calcium ion and control of cardiovascular function--Ultrastructure and conformation in sarcoplasmic reticulum (rabbits).

R01HL-16611-04 (PHRA) HEGYVARY, CSABA, ST LUKE'S MEDICAL CENTER, 1753 WEST CONGRESS PARKWAY, CHICAGO, ILL. Digitalis-receptor of the heart (guinea pigs, rats).

R01HL-16626-05 (SSS) HOYER, LEON W, UNIVERSITY OF CONNECTICUT, MEDICINE DEPARTMENT, FARMINGTON, CONN. Studies of antibodies to antihemophilic factors (human, rabbits).

R01HL-16628-05 (PC) FALL, R RAY, UNIVERSITY OF COLORADO, DEPARTMENT OF CHEMISTRY, BOULDER, COLO. Regulation of lipid metabolism (rats).

R01HL-16633-04 (HEM) KINGDON, HENRY S, UNIVERSITY OF NORTH CAROLINA, DEPT OF MEDICINE, CHAPEL HILL, N C. Chemistry and biology of factor IX activator (human, mice, rats).

R01HL-16634-13 (PC) MAJERUS, PHILIP W, WASHINGTON UNIVERSITY, 4566 SCOTT AVENUE, ST LOUIS, MO. Regulation of metabolism in fibroblasts and platelets (human, rabbits, sheep).

R01HL-16637-04 (MBY) ZAK, RADOVAN H, UNIVERSITY OF CHICAGO, 950 EAST, 59TH STREET, CHICAGO, ILL. Development and regression of cardiac hypertrophy (rats).

R01HL-16642-05 (HEM) COLMAN, ROBERT W, HOSPITAL/UNIV OF PENNSYLVANIA, MEDICINE DEPARTMENT, PHILADELPHIA, PA. Biochemistry and pathophysiology of plasma kallikrein (human, animals).

R01HL-16643-02 (CVB) ROSENBLUM, WILLIAM I, VIRGINIA COMMONWEALTH UNIV, BOX 17, DIV OF NEUROPATHOLOGY , RICHMOND, VA. Fluorocarbon emulsions as artificial blood (animals).

R01HL-16646-05 (HEM) HAWIGER, JACK J, VANDERBILT UNIVERSITY, 21ST AVENUE SOUTH, NASHVILLE, TENN. Pathobiology of thromboembolic disorders (human).

R01HL-16647-05 (BIO) HASS, LOUIS F, MILTON S HERSHEY MEDICAL CTR, DEPT OF BIOLOGICAL CHEMISTRY, HERSHEY, PA. Studies on the control of sickle cell crisis (human).

R01HL-16648-16 (CVB) MANNING, JOHN W, EMORY UNIVERSITY, PHYSIOLOGY DEPARTMENT, ATLANTA, GA. Integrated control of cardiovascular activity (cats).

R01HL-16651-05 (EDC) LYONS, HAROLD A, DOWNSTATE MEDICAL CENTER, 450 CLARKSON AVENUE, BROOKLYN, N Y. Evaluation of steroid therapy in sarcoidosis (human).

R01HL-16654-06 (HEM) GABUZDA, THOMAS G, LANKENAU HOSPITAL, LANCASTER & CITY LINE AVENUES , PHILADELPHIA, PA. Regulation in developing erythroid cells (human).

R01HL-16656-06 (CVB) HORWITZ, LAWRENCE D, UNIVERSITY OF TEXAS, 7703 FLOYD CURL DRIVE, SAN ANTONIO, TEX. Left ventricular function in exercise (dogs).

R01HL-16657-06 (CVB) BROWN, ARTHUR M, UNIVERSITY OF TEXAS MEDICAL BR, DEPT OF PHYSIOLOGY & BIOPHYS, GALVESTON, TEX. Innervation of coronary arteries and heart (rats).

R01HL-16658-05 (CVB) SCHNEIDER, EDWARD G, UNIVERSITY OF TENNESSEE, 894 UNION AVENUE, MEMPHIS, TENN. Intrarenal regulation of sodium reabsorption.

R01HL-16660-06 (BBCB) BITTMAN, ROBERT, QUEENS COLLEGE - C U N Y, CHEMISTRY DEPARTMENT, FLUSHING, N Y. Phospholipid-cholesterol and phospholipid-protein interactions.

R01HL-16666-05 (PHY) WAGNER, ROGER C, UNIVERSITY OF DELAWARE, 117 WOLF HALL, NEWARK, DEL. Micropinocytosis in isolated capillary endothelium.

R01HL-16674-05 (CVA) GATZY, JOHN T, JR, UNIVERSITY OF NORTH CAROLINA, DEPARTMENT OF PHARMACOLOGY, CHAPEL HILL, N C. Airborne metals and lung permeability (bullfrogs, rats).

R01HL-16675-05 (HEM) GUTNISKY, ABRAHAM, INST DE NEUROBIOLOGIA, OBLIGADO NRO 2490, BUENOS AIRES, ARGENTINA. Human urinary erythropoietin collection.

R01HL-16678-03 (BBCA) DOWBEN, ROBERT M, UNIVERSITY OF TEXAS, 5323 HARRY HINES BLVD, DALLAS, TEX 75235. Fluorescent probe studies of heart muscle proteins (rabbit, dog).

P01HL-16683-04 (HEP) MORALES, MANUEL F, UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, CALIF. Function and growth of cardiac and skeletal muscle.

P01HL-16683-04 0001 (HEP) BOREJDO, JULIAN. Function and growth of cardiac and skeletal muscle--Light chains of the skeletal and cardiac myosin molecule (rabbits, frogs)

P01HL-16683-04 0002 (HEP) MENDELSON, ROBERT A. Function and growth of cardiac and skeletal muscle--Myosin, actin, ATP, interaction in solution.

P01HL-16683-04 0003 (HEP) LEUNG, JOSEPH. Function and growth of cardiac and skeletal muscle--Movements of S-1 moieties in muscle fibers

P01HL-16683-04 0006 (HEP) DUKE, JOSEPH A. Function and growth of cardiac and skeletal muscle--Chemical studies of the contractile system--Development of new reagents.

R01HL-16686-04 (BIO) WHARTON, DAVID C, UNIVERSITY OF TEXAS, BIOCHEMISTRY DEPARTMENT, SAN ANTONIO, TEX Properties of cytochrome oxidase (cattle, bacteria).

R01HL-16706-04 (CVB) LEE, KWANG S, S U N Y - DOWNSTATE MED CTR, 450 CLARKSON AVENUE, BROOKLYN, N Y. Excitation-contraction coupling and heart failure (dogs, rabbits).

R01HL-16710-03 (CVB) KOLBECK, RALPH C, MEDICAL COLLEGE OF GEORGIA, 1120 15TH STREET, AUGUSTA, GA. Myocardial subcellular localization of calcium (dogs).

R01HL-16711-05 (SGYB) EVANS, EVAN A, DUKE UNIVERSITY, DEPT OF BIOMEDICAL ENGR, DURHAM, N C. RBC and endothelial membrane material characteristics (human).

R01HL-16714-05 (PTHA) SHEPRO, DAVID, BOSTON UNIVERSITY, 2 CUMMINGTON STREET, BOSTON, MASS. Endothelial cell communication in homeostasis (human, mammals).

R01HL-16720-02 (HEM) GANGULY, PANKAJ, ST JUDE CHILDREN'S RES HOSP, 332 N LAUDERDALE, MEMPHIS, TENN. Platelet aggregation (human).

R01HL-16725-03 (CVA) KING, RICHARD J, UNIVERSITY OF TEXAS, 7703 FLOYD CURL DRIVE, SAN ANTONIO, TEX. Physiological regulation of pulmonary surfactant (dogs, rats).

R01HL-16730-03 (MBY) AIELLO, EDWARD L, FORDHAM UNIVERSITY, BIOLOGICAL SCIENCES DEPT, BRONX, N Y. Physiology of mucociliary transport (rats, frogs, rabbits).

R01HL-16746-04 (MCHB) BOROWITZ, IRVING J, YESHIVA UNIVERSITY, 2495 AMSTERDAM AVENUE, NEW YORK, N Y. Design of ion-selective molecules.

P01HL-16748-05 (HEP) BELLANTI, JOSEPH A, GEORGETOWN UNIVERSITY, 3900 RESERVOIR ROAD, WASHINGTON, D C. Cellular and immunological basis of pulmonary diseases.

P01HL-16748-05 0001 (HEP) SCHWARTZ, SORELL L. Cellular and immunological basis of pulmonary diseases--Mechanisms of alveolar macrophage function and dysfunction (human, rabbits).

P01HL-16748-05 0002 (HEP) HERSCOWITZ, HERBERT B. Cellular and immunological basis of pulmonary diseases--Immunological function of alveolar macrophages (rabbits, sheep, mice).

P01HL-16748-05 0004 (HEP) BELLANTI, JOSEPH A. Cellular and immunological basis of pulmonary diseases--Cellular and immunological processes in pulmonary defense systems.

P01HL-16748-05 0006 (HEP) YEAGER, HENRY, JR. Cellular and immunological basis of pulmonary diseases--Sarcoidosis--Studies with bronchial lavage (human).

R01HL-16757-04 (HEM) GENGOZIAN, NAZARETH, OAK RIDGE ASSOCIATED UNIVS, POST OFFICE BOX 117, OAK RIDGE, TENN. 'Autoimmune' thrombocytopenia (monkey).

R01HL-16759-05 (RAD) MORITZ, WILLIAM E, UNIVERSITY OF WASHINGTON, RM 334, AEROSPACE RES LAB FL20, SEATTLE, WASH. Ultrasonic measurement of cardiac geometry and flow.

R01HL-16760-05 (CVB) SPARKS, HARVEY V, UNIVERSITY OF MICHIGAN, PHYSIOLOGY DEPARTMENT, ANN ARBOR, MICH. Dynamic control of coronary blood flow (dogs).

R01HL-16768-04 (CVA) FRONEK, KITTY, UNIVERSITY OF CALIFORNIA, AMES-BIOENGINEERING, M-005, LA JOLLA, CA. The sympathetic nervous system and the arterial wall (rabbits, pigeons).

P01HL-16769-05 (HEP) MYRVIK, QUENTIN N, BOWMAN GRAY SCHOOL OF MEDICINE, DEPT OF MICROBIOLOGY & IMMUNOL, WINSTON-SALEM, N C. Pathobiologic and host defense reactions in the lung.

P01HL-16769-05 0002 (HEP) MCCALL, CHARLES E. Pathobiologic and host defense reactions in the lung--Pathogenesis of complement dependent injury to the lungs (rabbits).

P01HL-16769-05 0003 (HEP) MYRVIK, QUENTIN N. Pathobiologic and host defense reactions in the lung--Pathobiologic mechanisms of delayed sensitivity reactions in the lung (animals).

P01HL-16769-05 0004 (HEP) KREGER, ARNOLD S. Pathobiologic and host defense reactions in the lung--Pathogenesis of Pseudomonas and Serratia pneumonias (rabbits).

P01HL-16769-05 0007 (HEP) HEISE, EUGENE R. Pathobiologic and host defense reactions in the lung--Immunogenetic factors in sarcoidosis (human).

P01HL-16769-05 0008 (HEP) JOHNSON, JOSEPH E. Pathobiologic and host defense reactions in the lung--Pulmonary immunocytologic defense mechanisms against bacteria (human, animals).

P01HL-16769-05 0009 (HEP) MYRVIK, QUENTIN N. Pathobiologic and host defense reactions in the lung--Electron microscopy and tissue culture core laboratory.

P01HL-16769-05 0010 (HEP) MYRVIK, QUENTIN N. Pathobiologic and host defense reactions in the lung--Bronchus associated lymphoid tissue and delayed hypersensitivity (rabbits).

P01HL-16769-05 0011 (HEP) LOVE, SAMUEL H. Pathobiologic and host defense reactions in the lung--Core--Laboratory for biomedical preparation (rabbits).

R01HL-16774-04 (SSS) MORTON, NEWTON E, UNIVERSITY OF HAWAII, 1980 EAST WEST ROAD, HONOLULU, HAWAII. Genetic epidemiology of hyperlipemia (Honolulu).

R01HL-16784-03 (AFY) HYDE, RICHARD W, UNIVERSITY OF ROCHESTER, PULMONARY UNIT, ROCHESTER, N Y. Lung tissue and water volume (human, dogs).

R01HL-16791-03 (COM) ACKERMAN, EUGENE, UNIVERSITY OF MINNESOTA, BOX 511, MAYO MEMORIAL BLDG, MINNEAPOLIS, MINN. Computer linkage for a dual camera system.

R01HL-16796-05 (MET) SCALLEN, TERENCE J, UNIVERSITY OF NEW MEXICO, 915 STANFORD N E, ALBUQUERQUE, N MEX. Cholesterol regulation by HMG-CoA reductase (rats, human).

R01HL-16807-02 (MET) JENSEN, ROBERT G, UNIVERSITY OF CONNECTICUT, U-17, DEPT OF NUTRITIONAL SCIS, STORRS, CONN. Lipid structure of normal and hyperlipoproteins (human).

R01HL-16B28-04 (CVA) LONGMUIR, IAN S, NORTH CARDLINA STATE UNIV, POST OFFICE BOX 5050, RALEIGH, N C. Gradient and transport of oxygen in tissue and organs (mammals).

R01HL-16830-05 (RAD) HUNTSMAN, LEE L, UNIVERSITY OF WASHINGTDN, CENTER FDR BIOENGINEERING, SEATTLE, WASH. Non-invasive determination of aortic blood velocities (human).

P01HL-16833-04 (HEP) 8ENSON, ELLIS S, UNIVERSITY OF MINNESOTA, BOX 198 - MAYD, MINNEAPOLIS, MINN. Hemoglobin and red cell system in hemoglobinopathies.

P01HL-16B33-04 0001 (HEP) BENSON, ELLIS S. Hemoglobin and red cell system in hemoglobinopathies--Motility, association and ligand binding in hemoglobin--Hydrogen exchange.

P01HL-16833-04 0002 (HEP) ROSENBERG, ANDREAS. Hemoglobin and red cell system in hemoglobinopathies--Polymerization and gel formation in solutions of hemoglobin A and S (human).

P01HL-16B33-04 0003 (HEP) BENSON, ELLIS S. Hemoglobin and red cell system in hemoglobinopathies--Oxygen binding curves and equilibria (human).

P01HL-16B33-04 0004 (HEP) BENSON, ELLIS S. Hemoglobin and red cell system in hemoglobinopathies--Purification and fractionation of hemoglobin A and S (human).

P01HL-16833-04 0006 (HEP) LUMRY, RUFUS. Hemoglobin and red cell system in hemoglobinopathies--Role of water in function of hemoglobin and myoglobin (human).

P01HL-16B33-04 0008 (HEP) BLACKSHEAR, PERRY L JR. Hemoglobin and red cell system in hemoglobinopathies--Membrane associated phenomena in SS disease.

P01HL-16833-04 0009 (HEP) KELLER, KENNETH H. Hemoglobin and red cell system in hemoglobinopathies--Rheological studies of sickled cells (human).

P01HL-16833-04 0011 (HEP) WHITE, JAMES G. Hemoglobin and red cell system in hemoglobinopathies--Relationship between hemoglobin and RBC membrane in sickling cells (human, rats).

P01HL-16833-04 0014 (HEP) JACO8, HARRY S. Hemoglobin and red cell system in hemoglobinopathies--Erythrocyte membrane damage in Hb SS disease (human).

P01HL-16B33-04 001S (HEP) MOSCOWITZ, ALBERT. Hemoglobin and red cell system in hemoglobinopathies--Stereochemistry of hemoglobins from magnetic circular dichroism (human).

P01HL-16833-04 0016 (HEP) EATON, JOHN W. Hemoglobin and red cell system in hemoglobinopathies--Calcium-indiced membrane damage in Hb SS disease (human, animals).

P01HL-16B33-04 0017 (HEP) KRIVIT, WILLIAM. Hemoglobin and red cell system in hemoglobinopathies--Sulfhydryl group blockade antisickling effect (human).

P01HL-16851-04 (HEP) CHIEN, SHU, COLUMBIA UNIVERSITY, 630 WEST 168TH STREET, NEW YORK, N Y. Human red cell membrane in health and disease.

P01HL-168S1-04 0001 (HEP) CHIEN, SHU. Human red cell membrane in health and disease--Rheology of erythrocyte membrane (human, amphiuma).

P01HL-168S1-04 0003 (HEP) SKALAK, RICHARD. Human red cell membrane in health and disease--Modeling membrane mechanics and blood rheology.

P01HL-16851-04 000S (HEP) 8ERTLES, JOHN F. Human red cell membrane in health and disease--Relation of hemoglobin species to membrane properties (human).

P01HL-16BS1-04 0006 (HEP) SCHACHTER, DAVID. Human red cell membrane in health and disease--Hexose transport and erythrocyte membrane proteins (human).

P01HL-16BS1-04 0008 (HEP) JAN, KUNG-MING. Human red cell membrane in health and disease--Force balance in red cell interactions (human).

P01HL-16B51-04 0009 (HEP) CHIEN, SHU. Human red cell membrane in health and disease--Blood cell properties in circulatory regulation (dogs, rabbits).

P01HL-168S1-04 0010 (HEP) CHIEN, SHU. Human red cell membrane in health and disease--Core facility--Hematology clinic.

P01HL-16BS1-04 0011 (HEP) LEE, MARY M L. Human red cell membrane in health and disease--Ultrastructure laboratory--Core facility.

P01HL-16BS1-04 0012 (HEP) SCHUESSLER, GEORGE. Human red cell membrane in health and disease--Computer unit--Core facility.

R01HL-16855-03 (AFY) HEMMINGSEN, EDVARD A, UNIV OF CALIFORNIA, SAN OIEGO, SCRIPPS INST OF OCEANDGRAPHY, LA JOLLA, CALIF. Cavitation in biological systems (microorganisms, animals).

R01HL-16860-0S (BBC8) LANG, L GEORGE, PENNSYLVANIA STATE UNIVERSITY, OEPARTMENT OF PHYSICS, UNIVERSITY PARK, PA. Mossbauer studies of respiratory hemoproteins.

R01HL-16872-04 (HEM) HOYER, LEON W, UNIVERSITY OF CONNECTICUT, DEPT OF MEDICINE, FARMINGTON, CONN. Antihemophilic factor (human).

P01HL-16B7B-05 (HEP) ZECHMAN, FRED W, UNIVERSITY OF KENTUCKY, DEPT OF PHYSIO & BIOPHSICS, LEXINGTON, KY. Control of ventilation in health and disease.

P01HL-16B7B-0S 0001 (HEP) 8URKI, N K. Control of ventilation in health and disease--Ability of asthmatics to detect added resistive and elastic loads.

P01HL-16878-05 0003 (HEP) FRAZIER, DONALD T. Control of ventilation in health and disease--Brain stem respiratory neurons in response mechanical/chemical loading (animal).

P01HL-16878-0S 0004 (HEP) BOYARSKY, LOUIS L. Control of ventilation in health and disease--Neurotransmitters in the respiratory system (cats).

P01HL-16878-0S 0005 (HEP) ZECHMAN, FRED W. Control of ventilation in health and disease--Program core.

R01HL-16B91-05 (BBCA) BUCCI, CLARA F, UNIVERSITY OF MARYLANO, 660 WEST, REOWOOO STREET, BALTIMORE, MD. The folding of hemoglobin.

R01HL-16901-0S (CVA) HORAN, LEO G, UNIVERSITY OF LOUISVILLE, HEALTH SCIENCES CENTER, LOUISVILLE, KY. Multipolar linkage between heart geometry and surface (human, dogs).

R01HL-16904-03 (PBC) FULLER, GEORGE C, UNIVERSITY OF RHODE ISLANO, PHARMACOLOGY & TOXICOLOGY DEPT, KINGSTON, R I. Regulation of smooth muscle cells in arteriosclerosis (rabbit aorta).

R01HL-16908-04 (TEC) WHIPPLE, IRA T, CHICAGO HEALTH RESEARCH FON, CIVIC CENTER, ROOM LL-139, CHICAGO, ILL. Myocardial function, risk factors and future CHO (men).

R01HL-16909-04 (TEC) TAYLOR, HENRY L, UNIVERSITY OF MINNESOTA, STAOIUM GATE 27, MINNEAPOLIS, MINN. Myocardial function, risk factors and future CHO (men).

P01HL-16910-0S (HEP) SCHER, ALLEN M, UNIVERSITY OF WASHINGTON, SCHDOL OF MEDICINE, SEATTLE, WASH. Regulation of the peripheral circulation.

P01HL-16910-0S 0001 (HEP) WIEDERHIELM, CURT A. Regulation of the peripheral circulation--Quantitative studies of microcirculatory control (bats).

P01HL-16910-05 0002 (HEP) FEIGL, ERIC O. Regulation of the peripheral circulation--Coronary circulation (dogs).

P01HL-16910-0S 0005 (HEP) SCHER, ALLEN M. Regulation of the peripheral circulation--Control of circulation by baroreceptor and chemoreceptor reflexes (dog, monkey).

P01HL-16910-0S 0006 (HEP) ROWELL, LORING 8. Regulation of the peripheral circulation--Regulation of blood flow distribution (baboons, dogs).

P01HL-16910-0S 0007 (HEP) SMITH, ORVILLE A. Regulation of the peripheral circulation--CNS--Behavioral influences on circulation (baboons).

P01HL-16910-05 000B (HEP) BROWN, ARTHUR C. Regulation of the peripheral circulation--Circulation to bone (dogs, baboons).

R01HL-16916-04 (CVA) MARSHALL, BRYAN E, UNIVERSITY OF PENNSYLVANIA, 340D SPRUCE STREET, PHILADELPHIA, PA. The role of albumins in lung water accumulation.

R01HL-16916-04 0001 (CVA) MARSHALL, 8RYAN E. The role of albumins in lung water accumulation--Capillary permeability (dogs, human).

R01HL-16916-04 0002 (CVA) MARSHALL, 8RYAN E. The role of albumins in lung water accumulation--Lung water balance--Forces, models and albumin concentrations (rabbits, dogs).

R01HL-16916-04 0011 (CVA) MARSHALL, BRYAN E. The role of albumins in lung water accumulation--Whole body distribution and exchange of albumin (rabbits, human, monkeys).

R01HL-16918-05 (CV8) 8AXTER, JOHN D, UNIVERSITY OF CALIFORNIA, METABOLIC RES UNIT, 1143 HSW, SAN FRANCISCD, CALIF. Role of steroids in hypertension (human).

R01HL-16919-0S (HEM) DAVIE, EARL W, UNIVERSITY OF WASHINGTON, DEPT OF BIDCHEM, SJ-70, SEATTLE, WASH. Proteins of blood coagulation (human, bovine).

R01HL-16920-02 (PC) KALNITSKY, GEORGE, UNIVERSITY OF IDWA, BIOCHEMISTRY DEPARTMENT, IDWA CITY, IDWA. Proteases in normal and immunologically injured lung (guinea pigs, rabbits).

R01HL-16921-0S (SGY8) ANDRADE, JOSEPH D, UNIVERSITY OF UTAH, COLLEGE OF ENGINEERING, SALT LAKE CITY, UTAH. Synthetic hydrogels as blood tolerable materials.

R01HL-16927-0S (8BCB) 8UNN, H FRANKLIN, AFFILIATED HOSPITAL CTR, INC, 721 HUNTINGTON AVENUE, BOSTON, MASS. Structure and function of normal and abnormal hemoglobin (human).

R01HL-16931-04 (HEM) 8ARTLETT, GRANT R, LAB FOR COMPARATIVE BIOCHEM, 4620 SANTA FE STREET, SAN OIEGO, CALIF. Red cell storage and transfusion (human, animals).

R01HL-1693S-0S (SGY8) DECK, J DAVID, UNIVERSITY OF VIRGINIA, 1300 JEFFERSON PARK AVENUE, CHARLOTTESVILLE, VA. Tissue organization and turnover in the semilunar valve (dogs, rats).

R01HL-16938-05 (SGYB) ALFREY, CLARENCE P, JR, METHOOIST HOSPITAL, 6516 BERTNER, HOUSTON, TEX. Effect of physical forces on blood (dogs, human).

R01HL-169S2-0S (PTHA) MAJNO, GUIDO, UNIVERSITY OF MASSACHUSETTS, 55 LAKE AVE NORTH, WORCESTER, MASS. Cardiovascular pathology (rats, rabbits).

R01HL-169SS-0S (HEM) DANISHEFSKY, ISIDORE, NEW YORK MEOICAL COLLEGE, BIOCHEMISTRY OEPARTMENT, VALHALLA, N Y. Heparin, blood coagulation and lipid metabolism (human).

R2SHL-17056-01 (SRC) POWERS, MARJORIE J, UNIVERSITY OF ROCHESTER, 260 CRITTENOEN BOULEVARD, ROCHESTER, N Y. Improving patient compliance through nursing action.

R01HL-17080-0S (M8Y) PALADE, GEORGE E, YALE UNIVERSITY, 333 CEDAR STREET, NEW HAVEN, CONN. Localization of pore systems in capillary walls (rats, mice, rabbits).

R01HL-17091-0S (SGYA) LONGNECKER, DAVID E, UNIV OF VIRGINIA MED CTR, BOX 238, CHARLOTTESVILLE, VA. Anesthetics and microvascular response to hemorrhage (rats).

R01HL-17194-03 (PC) GLASER, CHARLES B, INSTITUTES OF MEOICAL SCIENCES, POST OFFICE BOX 7999, SAN FRANCISCO, CALIF. Comparison of two inherited forms of alpha-1-antitrypsin (human).

R01HL-17243-0S (CVB) SKEGGS, LEONARD T, VETERANO ADMINISTRATION HOSP, 1D7D1 EAST BOULEVARO, CLEVELANO, OHIO. Cause of chronic experimental renal hypertension (dogs, rabbits).

R01HL-17246-03 (CVA) AUCHINCLOSS, J HOWLAND, JR, STATE UNIVERSITY HOSPITAL, 75D EAST ADAMS STREET, SYRACUSE, N Y. Oxygen uptake at one minute of exercise (human).

P60HL-1726S-04 (SRC) DONOHUE, DENNIS M, PUGET SOUND BLOOD CENTER, TERRY AT MADISON, SEATTLE, WASH. Community blood resource center support.

P60HL-17265-04 0001 (SRC) CRITCHLOW, CATHY. Community blood resource center support--Oemonstration and evaluation.

P60HL-1726S-04 0002 (SRC) COUNTS, RICHARD B. Community blood resource center support--Research--Human factor VIII.

P60HL-17265-04 0003 (SRC) THOMPSON, ARTHUR R. Community blood resource center support--Research--Human factor IX--Role in intrinsic clotting (also baboons, dogs).

P60HL-1726S-04 0006 (SRC) SLICHTER, SHERRILL J. Community blood resource center support--Research--Evaluation of platelet transfusions (human, dog).

P60HL-1726S-04 0007 (SRC) SIMON, TOBY L. Community blood resource center support--Research--Massive transfusion and trauma (human).

P60HL-1726S-04 0008 (SRC) GIBLETT, ELOISE R. Community blood resource center support--Research--Blood genetic markers as biological probes (human).

P60HL-17265-04 0009 (SRC) PRICE, THOMAS H. Community blood resource center support--Research--Oeveloping granulocyte transfusion therapy (human, rabbit).

P60HL-1726S-04 0010 (SRC) HILLMAN, RO8ERT S. Community blood resource center support--Blood resources educational program.

P60HL-17269-04 (SRC) DE 8AKEY, MICHAEL E, BAYLOR COLLEGE OF MEDICINE, 6516 BERTNER BLVO, HOUSTON, TEX. National heart and blood vessel research and demonstration center.

P60HL-17269-04 0001 (SRC) TITUS, JACK L. National heart and blood vessel research and demonstration center--Atherosclerosis--Arterial pathology and plasma lipids (human).

P60HL-17269-04 0003 (SRC) WAKIL, SALIH J. National heart and blood vessel research and demonstration center-Atherosclerosis -Fatty acid metabolism in cardiovascular tissue (human, chicken)

P60HL-17269-04 0004 (SRC) TITUS, JACK L. National heart and blood vessel research and demonstration center--Atherosclerosis--Clinical surgical aspects (human)

P60HL-17269-04 0007 (SRC) TITUS, JACK L. National heart and blood vessel research and demonstration center--Correlative studies of experimental myocardial ischemia (dog).

P60HL-17269-04 0009 (SRC) MORRISETT, JOEL O. National heart and blood vessel research and demonstration center--Physical methods laboratory (high density lipoproteins).

P60HL-17269-04 0011 (SRC) JACKSON, RICHARD L. National heart and blood vessel research and demonstration center--Lipoprotein structure laboratory (human).

P60HL-17269-04 0013 (SRC) SPARROW, JAMES T. National heart and blood vessel research and demonstration center--Peptide synthesis laboratory (human).

P60HL-17269-04 0014 (SRC) POWNALL, HENRY J. National heart and blood vessel research and demonstration center--Physio-chemical nature of lipid deposits in arterial wall (human).

P60HL-17269-04 0015 (SRC) SMITH, LOUIS C. National heart and blood vessel research and demonstration center--Lipoprotein metabolism laboratory (human).

P60HL-17269-04 0016 (SRC) HORNING, EVAN C. National heart and blood vessel research and demonstration center--New analytical methodology for atherosclerosis studies.

P60HL-17269-04 0017 (SRC) SCHWARTZ, ARNOLD. National heart and blood vessel research and demonstration center--Cell membrane (dogs, rabbits).

P60HL-17269-04 0018 (SRC) WOOD, JEANIE M. National heart and blood vessel research and demonstration center--Mitochondria and energetics (rabbits, dogs).

P60HL-17269-04 0019 (SRC) ENTMAN, MARK L. National heart and blood vessel research and demonstration center--Sarcoplasmic reticulum (dog, rabbit, hamster, cat).

P60HL-17269-04 0020 (SRC) GILLETTE, PAUL C. National heart and blood vessel research and demonstration center--Nucleic acid and protein metabolism in growth and development of heart (rat).

P60HL-17269-04 0021 (SRC) GOLDSTEIN, MARGARET A. National heart and blood vessel research and demonstration center--Growth and development of heart--Ultrastructure (dog, guinea pig, rat, cat).

P60HL-17269-04 0022 (SRC) WALLICK, EARL T. National heart and blood vessel research and demonstration center--Medicinal chemistry (rabbit, dog, guinea pig).

P60HL-17269-04 0023 (SRC) MCINTOSH, HENRY D. National heart and blood vessel research and demonstration center--Cardiovascular pharmacology--Ischemia, shock and heart failure (dog, cat, rat).

P60HL-17269-04 0024 (SRC) LEWIS, ROBERT M. National heart and blood vessel research and demonstration center--Section of experimental cardiovascular surgery--Core facility.

P60HL-17269-04 0026 (SRC) MCINTOSH, HENRY D. National heart and blood vessel research and demonstration center--Dynamics of ischemic heart disease (human, dog).

P60HL-17269-04 0027 (SRC) WRIGHT, KINSMAN E. National heart and blood vessel research and demonstration center--Non-invasive evaluation of cardiac function--Ischemic heart disease (human, dog).

P60HL-17269-04 0029 (SRC) DEBAKEY, MICHAEL E. National heart and blood vessel research and demonstration center--Clinical application of circulatory assistance (human).

P60HL-17269-04 0030 (SRC) DEBAKEY, MICHAEL E. National heart and blood vessel research and demonstration center--Cardiovascular engineering laboratories (human).

P60HL-17269-04 0031 (SRC) GLAESER, DONALD H. National heart and blood vessel research and demonstration center--Computer-assisted data acquisition and clinical data processing.

P60HL-17269-04 0032 (SRC) DEBAKEY, MICHAEL E. National heart and blood vessel research and demonstration center--Clinical circulatory assist device fabrication.

P60HL-17269-04 0033 (SRC) ROSSEN, ROGER D. National heart and blood vessel research and demonstration center--Autoallergic response in cardiomyopathy, atherosclerosis, rheumatic heart disease.

P60HL-17269-04 0034 (SRC) TRENTIN, JOHN J. National heart and blood vessel research and demonstration center--Immunologic enhancement of cardiac allografts (mice).

P60HL-17269-04 0035 (SRC) MELNICK, JOSEPH L. National heart and blood vessel research and demonstration center--Blood resources--Research program in viral hepatitis (human).

P60HL-17269-04 0036 (SRC) WEAVER, FRANK J. National heart and blood vessel research and demonstration center--Public education.

P60HL-17269-04 0037 (SRC) ROUSH, ROBERT E. National heart and blood vessel research and demonstration center--Secondary and university education.

P60HL-17269-04 003B (SRC) TAYLOR, FRED M. National heart and blood vessel research and demonstration center--Continuing education.

P60HL-17269-04 0039 (SRC) VALLBONA, CARLOS. National heart and blood vessel research and demonstration center--Health care services to patients in neighborhood clinics.

P60HL-17269-04 0042 (SRC) EVANS, RICHARD I. National heart and blood vessel research and demonstration center--Social-psychological smoking deterrents in schools.

P60HL-17269-04 0043 (SRC) FOREYT, JOHN P. National heart and blood vessel research and demonstration center--Dietary modification--Effect on cardiovascular risk parameters (human).

P60HL-17269-04 0045 (SRC) SMITH, LOUIS C. National heart and blood vessel research and demonstration center--Regulation of lipogenesis in hyperlipoproteinemia (human, tissue culture).

P60HL-17269-04 0046 (SRC) MORRISETT, JOEL D. National heart and blood vessel research and demonstration center--Nuclear magnetic resonance laboratory.

P60HL-17269-04 0047 (SRC) RUSSELL, MICHAEL L. National heart and blood vessel research and demonstration center--Evaluation of competency-based educational model.

P60HL-17269-04 0048 (SRC) HOFF, HENRY F. National heart and blood vessel research and demonstration center-Atherosclerosis-Lipoproteins and the arterial wall (human)

P60HL-17292-04 (SRC) CRAIGHEAD, JOHN E, UNIVERSITY OF VERMONT, GIVEN BUILDING, ROOM C331, BURLINGTON, VT. Vermont Lung Center

P60HL-17292-04 0003 (SRC) CRAIGHEAD, JOHN E. Vermont Lung Center-Subclinical pulmonary disease in a rural environment (human)

P60HL-17292-04 0005 (SRC) CRAIGHEAD, JOHN E. Vermont Lung Center-Mineral pneumoconioses-Pathogenesis and pathology (human)

P60HL-17292-04 0008 (SRC) ALPERT, NORMAN R. Vermont Lung Center--Respiratory physiology-Teaching, learning and auditing problem-solving skills.

P60HL-17292-04 0009 (SRC) ALLEN, SINCLAIR T, JR. Vermont Lung Center--Controlled clinical trials on a clinical core unit (human)

P60HL-17292-04 0013 (SRC) ALLEN, SINCLAIR T, JR. Vermont Lung Center--Regional management of respiratory disease program

P60HL-17292-04 001B (SRC) SLACK, HUBERT R. Vermont Lung Center--Group patient education--Breathing workshop project.

P60HL-17292-04 0020 (SRC) SLACK, HUBERT R. Vermont Lung Center--Mass information--Education project

P60HL-17292-04 0021 (SRC) SLACK, HUBERT R. Vermont Lung Center--School lung education project.

P60HL-17292-04 0023 (SRC) DORSEY, FRANK C. Vermont Lung Center--Health information resources.

P60HL-17292-04 0024 (SRC) HOLMES DAVID R. Vermont Lung Center--Education and media resources unit.

P60HL-17292-04 0029 (SRC) CHASE, CHRISTOPHER R. Vermont Lung Center--Computer-assisted pre-operative evaluation (human).

P60HL-17292-04 0030 (SRC) ALLEN, SINCLAIR T, JR. Vermont Lung Center--Hospital treatment of pneumonia.

P60HL-17292-04 0031 (SRC) ALLEN, SINCLAIR T, JR. Vermont Lung Center--Regional respiratory computer network.

R01HL-17314-04 (CVA) KAFER, ENID R, UNIVERSITY OF NORTH CAROLINA, DEPARTMENT OF ANESTHESIOLOGY, CHAPEL HILL, N C. Effects of anesthesia and loading on respiration (human, cats).

R01HL-17322-04 (CVA) SOUHRADA, JOSEPH F, NATL JEWISH HOSP & RES CENTER, 3800 E COLFAX AVENUE, DENVER, COLO. Functional characteristics of smooth muscle isolated from lung (animals).

R01HL-17332-04 (GMA) ROGERS, JOHN B, JR, ALBANY MEDICAL COLLEGE, 47 NEW SCOTLAND AVENUE, ALBANY, N Y. Use of the gut for therapy of coronary artery disease (mammals).

R01HL-17335-05 (CVB) HALPERN, WILLIAM, UNIVERSITY OF VERMONT, PHYSIOLOGY & BIOPHYSICS DEPT, BURLINGTON, VT. Contractile properties of hypertensive arterioles (rats).

R01HL-17341-03 (MCHA) SCHLESSINGER, RICHARD H, UNIVERSITY OF ROCHESTER, DEPARTMENT OF CHEMISTRY, ROCHESTER, N Y. Practical total synthesis of prostaglandins.

R01HL-17352-03 (AFY) FRANKEL, HARRY M, RUTGERS UNIVERSITY, DEPARTMENT OF PHYSIOLOGY, NEW BRUNSWICK, N J. Physiological regulation during chronic hyperthermia (sheep).

R01HL-17355-04 (CVA) MALIK, ASRAR B, ALBANY MEDICAL COLL-UNION UNIV, 47 NEW SCOTLAND AVENUE, ALBANY, N Y. Pulmonary vascular adjustments in circulatory collapse (dogs, rats).

R01HL-17358-04 (SGYA) SULLIVAN, STUART F, UNIVERSITY OF CALIFORNIA, DEPARTMENT OF ANESTHESIOLOGY, LOS ANGELES, CALIF. Ventilatory adjustments for optimal oxygenation (dogs, rats).

R01HL-17364-04 (CVB) LUETSCHER, JOHN A, JR, STANFORD UNIVERSITY, STANFORD MEDICAL CENTER M-204 , STANFORD, CALIF. 'Big renin'--Biochemical and clinical studies (human).

R01HL-17366-05 (CVB) JOHNSON, JOSEPH A, UNIVERSITY OF MISSOURI, DEPT OF PHYSIOLOGY, COLUMBIA, MO. Mechanisms in the production of renal hypertension (rabbits, dogs).

R01HL-17367-05 (HED) KRALIOS, FANY A, UNIVERSITY OF UTAH, MEDICAL CENTER, BLDG 100, SALT LAKE CITY, UTAH. Functional sympathetic development in neonatal hearts (dogs, human).

R01HL-17369-04 (SGYB) FUCHS, JAMES C, DUKE UNIVERSITY, POST OFFICE BOX 3351, DURHAM, N C. Arterial bypass surgery--Structure and metabolism (monkeys).

R01HL-17370-03 (NEUB) TOWNSEL, JAMES G, MEHARRY MEDICAL COLLEGE, 1005 18TH AVENUE NORTH, NASHVILLE, TENN. Synaptic chemistry and cardioregulation in Limulus.

R01HL-17371-05 (MET) BROCKMAN, HOWARD L, JR, UNIVERSITY OF MINNESOTA, 801 16TH AVENUE, N E, AUSTIN, MINN. Regualtion of cholesteryl ester levels in the aorta (swine).

R01HL-17372-03 (BIO) SEYMOUR, F R, BAYLOR COLLEGE OF MEDICINE, 1200 MOURSUND AVENUE, HOUSTON, TEX. Adenine nucleotide maintenance in the ischemic heart (rats).

R01HL-17376-04 (CVA) GOLDSTEIN, MARGARET A, BAYLOR COLLEGE OF MEDICINE, 1200 MOURSUND AVENUE, HOUSTON, TEX. Analysis of Z bands in heart by optical diffraction (mammals).

P01HL-17382-05 (HEP) AUSTEN, KARL F, ROBERT B BRIGHAM HOSP, 125 PARKER HILL AVE, BOSTON, MASS. Chemical mediators of acute pulmonary disorders.

P01HL-17382-05 0001 (HEP) MCFADDEN, REGIS. Chemical mediators of acute pulmonary disorders--Chemical mediators and respiratory mechanics in humans.

P01HL-17382-05 0002 (HEP) DRAZEN, JEFFREY. Chemical mediators of acute pulmonary disorders--Chemical mediators and respiratory mechanics in guinea pigs.

P01HL-17382-05 0003 (HEP) AUSTEN, K FRANK. Chemical mediators of acute pulmonary disorders--Chemical mediators relevant to allergic reactions (human, guinea pigs).

R01HL-17401-03 (PHRA) BUCKLEY, JOSEPH P, UNIVERSITY OF HOUSTON, 4800 CALHOUN BLVD, HOUSTON, TEX. Mechanisms in angiotensin induced hypertension (cats, dogs).

R01HL-17402-04 (SSS) SCHIFFMAN, SANDRA, UNIV OF SOUTHERN CALIFORNIA, 2025 ZONAL AVENUE, LOS ANGELES, CALIF. Mechanism of contact activation of intrinsic clotting (human).

R01HL-17403-03 (CVA) LIANG, CHANG-SENG, BOSTON UNIVERSITY, 80 EAST CONCORD STREET, BOSTON, MASS. Metabolic control of cardiac output (dogs).

R01HL-17404-05 (VR) WOODRUFF, JACK F, CORNELL UNIVERSITY, 1300 YORK AVENUE, NEW YORK, N Y. Immunologic mechanisms in heart disease (mice).

R01HL-17407-05 (AFY) DU BOIS, ARTHUR B, JOHN B PIERCE FOUNDATION, 290 CONGRESS AVENUE, NEW HAVEN, CONN. Peripheral circulation and fluid balance (fish, mammals, human).

R01HL-1740B-03 (CVB) KRON, REUBEN E, UNIVERSITY OF PENNSYLVANIA, 202 PIERSOL BUILDING, PHILADELPHIA, PA. Fresh blood rheology--Relation to cardiovascular risk (human).

R01HL-17411-04 (BBCB) BRANTON, DANIEL, HARVARD UNIVERSITY, 16 DIVINITY STREET, CAMBRIDGE, MASS. Molecular studies of red blood cell spectrin (human).

P01HL-17417-05 (SRC) VEITH, FRANK J, MONTEFIORE HOSP & MEDICAL CTR, 111 EAST 210TH STREET, NEW YORK, N Y. Experimental lung transplantation.

P01HL-17417-05 0001 (SRC) NORIN, ALLEN J. Experimental lung transplantation--Mechanisms and mediators of lung allograft rejection (dogs, mice).

P01HL-17417-05 0003 (SRC) EMESON, EUGENE. Experimental lung transplantation--Methods for detecting lung allograft rejection (dogs).

P01HL-17417-05 0004 (SRC) NORIN, ALLEN J. Experimental lung transplantation--Methods for suppressing lung allograft rejection (dogs, mice).

P01HL-17417-05 0005 (SRC) VEITH, FRANK J. Experimental lung transplantation--Lung transplantation in bilateral emphysema (dogs).

P01HL-17417-05 0006 (SRC) VEITH, FRANK J. Experimental lung transplantation--Bronchial anastomotic problems and increases donor lung availability (dog).

P01HL-17419-04 (HEPB) MOSESSON, MICHAEL W, S U N Y - DOWNSTATE MED CTR, 450 CLARKSON AVENUE, BROOKLYN, N Y. Studies on mechanisms of hemostasis.

P01HL-17419-04 0001 (HEPB) MOSESSON, MICHAEL W. Studies on mechanisms of hemostasis--Structure and metabolism of fibrinogen (human).

P01HL-17419-04 0003 (HEPB) GALANAKIS, DENNIS. Studies on mechanisms of hemostasis--Characterization of fibrinogen (human).

P01HL-17419-04 0006 (HEPB) PINDYCK, JOHANNA. Studies on mechanisms of hemostasis--Effect of hormones, drugs and other agents on fibrinogen synthesis (chick).

P01HL-17419-04 0007 (HEPB) TOONEY, NANCY M. Studies on mechanisms of hemostasis--Structural analysis of ordered forms of fibrinogen (human, cattle).

P01HL-17421-05 (HEP) JOHNSON, PAUL C, UNIVERSITY OF ARIZONA, PHYSIOLOGY DEPT, TUCSON, ARIZ. Regulation and exchange in the microcirculation.

P01HL-17421-05 0001 (HEP) GROSS, JOSEPH F. Regulation and exchange in the microcirculation--Mass transfer and microcirculatory function (rats).

P01HL-17421-05 0002 (HEP) GROSS, JOSEPH F. Regulation and exchange in the microcirculation--Metabolic and myogenic blood flow regulation in microcirculation (animals).

P01HL-17421-05 0003 (HEP) GORE, ROBERT W. Regulation and exchange in the microcirculation--Transcapillary fluid exchange in rat intestinal muscle, mucosa, and mesentery.

P01HL-17421-05 0004 (HEP) JOHNSON, PAUL C. Regulation and exchange in the microcirculation--Localization of flow regulation in the microcirculation (cats, human).

P01HL-17421-05 0006 (HEP) JOHNSON, PAUL C. Regulation and exchange in the microcirculation--Core facilities--Optical instrumentation facility.

P01HL-17421-05 0007 (HEP) INTAGLIETTA, MARCOS. Regulation and exchange in the microcirculation--Core facilities--Fluorometric measurement methods for microcirculation.

P01HL-17430-05 (HEP) BOWIE, E J, MAYO FOUNDATION, 200 FIRST ST SOUTHWEST, ROCHESTER, MINN. Control of coagulation.

P01HL-17430-05 0001 (HEP) BOWIE, E J WALTER. Control of coagulation--Porcine von Willebrand's disease.

P01HL-17430-05 0002 (HEP) FASS, DAVID N. Control of coagulation--Isolation of ristocetin--von Willebrand factor (swine).

P01HL-17430-05 0005 (HEP) MANN, KENNETH G. Control of coagulation--The activation of prothrombin (human, cattle, dogs).

P01HL-17430-05 0006 (HEP) OWEN, CHARLES A. Control of coagulation--Activation fragments of prothrombin in vitro and in vivo (human, dogs, cattle).

P01HL-17430-05 0007 (HEP) DIDISHEIM, PAUL. Control of coagulation--Platelet adhesion, aggregation, ultrastructure in flowing blood (human, animals).

P01HL-17430-05 000B (HEP) FASS, DAVID N. Control of coagulation--Cultures of von Willebrand endothelial cells (pigs).

R01HL-17437-03 (SGYB) MC INTIRE, LARRY V, RICE UNIVERSITY, P O BOX 1892, HOUSTON, TEX. 'Perfusion lung'--Role of traumatized leukocytes (dogs, human).

R01HL-17451-05 (PHRA) VASSALLE, MARIO, S U N Y - DOWNSTATE MED CTR, 450 CLARKSON AVENUE, BROOKLYN, N Y. Digitalis effects on cardiac automaticity mechanisms.

R01HL-17452-04 (PHRA) KATZUNG, BERTRAM G, UNIVERSITY OF CALIFORNIA, DEPT OF PHARMACOLOGY, SAN FRANCISCO, CALIF. Depolarization induced cardiac automaticity (human, animals).

R01HL-1745B-04 (CVB) ALEXANDER, EDWARD A, BOSTON CITY HOSPITAL, 818 HARRISON AVENUE, BOSTON, MASS. Renal control of sodium excretion (rats).

R01HL-17459-03 (CVB) VATNER, STEPHEN F, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Myocardial ischemia (dogs).

R01HL-17462-03 (PC) SWEELEY, CHARLES C, MICHIGAN STATE UNIVERSITY, DEPARTMENT OF BIOCHEMISTRY, EAST LANSING, MICH. Role of glycosphingolipids in platelet aggregation (rats, human, dogs).

R01HL-17463-03 (MET) SHORE, VIRGIE G, UNIVERSITY OF CALIFORNIA, BIOMEDICAL DIVISION, L-523, LIVERMORE, CALIF. Composition and structure of plasma lipoproteins (human, rabbits).

R01HL-17465-04 (GEN) ROWLEY, PETER T, UNIVERSITY OF ROCHESTER, 601 ELMWOOD AVENUE, ROCHESTER, N Y. Beta-thalassemia screening and genetic counseling.

R01HL-17479-04 (SGYB) MC CONN, RITA, ALBERT EINSTEIN COLLEGE OF MED, 1300 MORRIS PARK AVENUE, BRONX, N Y. Blood storage--The production of cardiotoxic material (dogs, human, swine).

R01HL-174B7-04 (PHRA) WEINSHILBOUM, RICHARD M, MAYO FOUNDATION, 200 FIRST STREET SOUTHWEST, ROCHESTER, MINN. Adrenergic vasoregulation interactions in hypertension (human).

R01HL-17494-07 (BBCA) SCHUSTER, TODD M, UNIVERSITY OF CONNECTICUT, BOX U-125, STORRS, CONN. Mechanism of ligand binding to hemoglobin (human).

R01HL-17503-03 (AFY) D'HOUST, BRIAN G, VIRGINIA MASON RES CENTER, 1000 SENECA STREET, SEATTLE, WASH. Vascular bubbles in decompression sickness (minipig, dog, goat).

R01HL-17513-04 (HEM) HANDIN, ROBERT I, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Role of PF-4 in detecting and promoting thrombosis (human, primates).

R01HL-17516-04 (CVB) RAMWELL, PETER W, GEORGETOWN UNIVERSITY, PHYSIOLOGY & BIOPHYSICS DEPT, WASHINGTON, D C. Role of androgen as a risk factor in atherogenesis (human, animals).

R01HL-17517-03 (CVA) GOLDSTICK, THOMAS K, NORTHWESTERN UNIVERSITY, CHEMICAL ENGINEERING DEPT, EVANSTON, ILL. Arterial wall oxygen transport in atherosclerosis (rabbits, dogs).

R01HL-17525-03 (MBY) MICHAELI, DOV, UNIVERSITY OF CALIFORNIA, DEPARTMENT OF BIOCHEM & BIOPHY, SAN FRANCISCO, CALIF. Molecular basis of collagen-platelet interaction (human, rat).

R01HL-17532-04 (CVB) SELVESTER, RONALD H, 7413 GOLONDRINAS STREET, DOWNEY, CALIF. Infarct size--ECG, angio, path, correlation in dogs.

R01HL-17543-03 (PTHA) COHEN, DAVID, MASSACHUSETTS INST OF TECH, 170 ALBANY STREET, CAMBRIDGE, MASS. Magnetic tracers for diagnosis of lung disease.

R01HL-17543-03 0001 (PTHA) GAENSLER, EDWARD A. Magnetic tracers for diagnosis of lung disease--Chronic, interstitial lung disease (human, rabbits).

R01HL-17543-03 0002 (PTHA) COHEN, DAVID. Magnetic tracers for diagnosis of lung disease--Magnetite as an index of asbestos exposure (human).

R01HL-17543-03 0003 (PTHA) COHEN, DAVID. Magnetic tracers for diagnosis of lung disease--Occupationally accumulated magnetite for diagnosis of lung disease (human).

R01HL-17543-03 0004 (PTHA) BRAIN, JOSEPH D. Magnetic tracers for diagnosis of lung disease--Magnetite retention, distribution, relaxation rate, viscosity (rabbits).

R01HL-17551-04 (MBY) GOLDBERG, BURTON D, NEW YORK UNIVERSITY, 550 FIRST AVENUE, NEW YORK, N Y. Biosynthesis and metabolism of procollagen (human, monkeys, mice).

R01HL-17552-03 (PC) BENESCH, RUTH E, COLUMBIA UNIVERSITY, 630 WEST 168TH STREET, NEW YORK, N Y. Sickling inhibition by chemical modification of hemoglobin (human).

R01HL-17555-05 (CVB) MARKS, BERNARD H, WAYNE STATE UNIVERSITY, 540 EAST CANFIELD AVENUE, DETROIT, MICH. Distribution and metabolism of labeled digitaloids (dogs, guinea pigs).

R01HL-17559-03 (BBCB) HARTZELL, CHARLES R, PENNSYLVANIA STATE UNIVERSITY, 108 ALTHOUSE LABORATORY, UNIVERSITY PARK, PA. Structural elucidation of heart cytochrome-C oxidase.

R01HL-17564-03 (NTN) CEVALLOS, WILLIAM H, LANKENAU HOSPITAL, LANCASTER & CITY LINE AVENUES , PHILADELPHIA, PA. Unsaturated fats--Mode of hypocholesterolemic action (minipig).

R01HL-17567-03 (BBCA) HARVIE, NANCY R, UNIVERSITY OF MICHIGAN, 220D BONISTEEL BOULEVARD, ANN ARBOR, MICH. Lipoprotein-cytolytic toxin interaction (Staphylococcus aureus, mammals, human).

R01HL-17571-03 (BBCB) EISENSTADT, MAURICE, ALBERT EINSTEIN COLLEGE OF MED, 130D MORRIS PARK AVENUE, BRONX, N Y. Study of membrane permeability by NMR relaxation (human).

R01HL-17576-04 (BBCB) BARENHOLZ, YECHEZKEL, UNIVERSITY OF VIRGINIA, BIOCHEMISTRY DEPARTMENT, CHARLOTTESVILLE, VA. Role of sphingomyelin in biomembranes and bilayers (rats, other mammals).

R01HL-1757B-04 (AFY) WESSEL, HANS U, CHILDREN'S MEMORIAL HOSPITAL, 2300 CHILDREN'S PLAZA, CHICAGO, ILL. Exercise performance in children with heart disease.

R01HL-175B0-04 (EDC) HOROWITZ, MARDI J, UNIVERSITY OF CALIFORNIA, 401 PARNASSUS AVENUE, SAN FRANCISCO, CALIF. The impact of stress on coronary heart disease (men).

R01HL-175B1-03 (CVA) BUCHANAN, JAMES W, UNIVERSITY OF PENNSYLVANIA, 3800 SPRUCE STREET, PHILADELPHIA, PA. Patent ductus arteriosus and pulmonary hypertension (dogs).

R01HL-17591-03 (CVA) KOLIN, ALEXANDER, UNIVERSITY OF CALIFORNIA, BIOPHYSICS LABORATORY, LOS ANGELES, CALIF. Development of electromagnetic rheoangiography (human, dogs).

R01HL-17592-03 (CVB) ALPERT, NORMAN R, UNIVERSITY OF VERMONT, GIVEN BUILDING, BURLINGTON, VT. Activation and contraction heat in enlarged hearts (rabbits).

R01HL-17596-03 (PTHA) ANDERSON, NORMAN D, JOHNS HOPKINS HOSPITAL, CMSC 6-123, 601 N BROADWAY, BALTIMORE, MD. Leukocyte-endothelial interactions (rats).

R01HL-17597-05 (MET) NISHIDA, TOSHIRO, UNIVERSITY OF ILLINOIS, BURNSIDES RESEARCH LABORATORY , URBANA, ILL. Role of plasma lipoproteins in atherosclerosis (swine, human).

R01HL-17604-03 (AFY) WEAVER, CHARLES S, STANFORD RESEARCH INST, 333 RAVENSWOOD AVENUE, MENLO PARK, CALIF. Wearable blood pressure and ECG recording system.

R01HL-17623-05 (SGYB) KIM, SUNG-WAN, UNIVERSITY OF UTAH, COLLEGE OF PHARMACY, SALT LAKE CITY, UTAH. Initial events in thrombus formation on surfaces (human, rats).

R01HL-1762B-03 (CVB) YONCE, LLOYD R, UNIVERSITY OF NORTH CAROLINA, DEPARTMENT OF PHYSIOLOGY, CHAPEL HILL, N C. Pulsatile pressure-flow dynamics (dogs).

R01HL-17629-03 (CVB) BOERTH, ROBERT C, VANDERBILT UNIVERSITY, DIV OF PEDIATRIC CARDIOLOGY, NASHVILLE, TENN. Developmental aspects of cardiovascular function (human, cats, rabbits).

R01HL-17631-05 (CVB) SPANN, JAMES F, JR, TEMPLE UNIVERSITY, 3400 NORTH BROAD STREET, PHILADELPHIA, PA. Experimental congestive heart failure and hypertrophy (cats).

P50HL-17646-04 (SRC) SOBEL, BURTON E, WASHINGTON UNIVERSITY, 660 SOUTH EUCLID, ST LOUIS, MO. Study of ischemic heart disease.

P50HL-17646-04 0001 (SRC) SOBEL, BURTON E. Study of ischemic heart disease--Core clinical investigation unit.

P50HL-17646-04 0002 (SRC) MARKHAM, JOANNE. Study of ischemic heart disease--Core data management.

P50HL-17646-04 0003 (SRC) WILLIAMSON, JOSEPH R. Study of ischemic heart disease--Core pathology facility (human, dogs).

P50HL-17646-04 0004 (SRC) HENRY, PHILIP D. Study of ischemic heart disease--Core experimental animal laboratories.

P50HL-17646-04 0005 (SRC) SOBEL, BURTON E. Study of ischemic heart disease-6Biochemical markers and mediators of myocardial ischemic injury.

P50HL-17646-04 0006 (SRC) MARKHAM, JOANNE. Study of ischemic heart disease-Mathematical models for predicting infarct size using CPK and other markers.

P50HL-17646-04 0007 (SRC) ROBERTS, ROBERT. Study of ischemic heart disease-Prediction of myocardial ischemic injury by analysis of plasma CPK isoenzymes.

P50HL-17646-04 0009 (SRC) SOBEL, BURTON E. Study of ischemic heart disease-Regional metabolic derangements indicating ischemia (rabbit, dog, human).

P50HL-17646-04 0010 (SRC) LUDBROOK, PHILIP A. Study of ischemic heart disease-Compliance in ischemic myocardium-Altered cardiac performance (human, dogs).

P50HL-17646-04 0012 (SRC) WILLIAMSON, JOSEPH R. Study of ischemic heart disease-Role of microcirculation in progression of myocardial ischemic injury (rat).

P50HL-17646-04 0013 (SRC) WELDON, CLARENCE S. Study of ischemic heart disease--Maintenance of myocardial vascular integrity after revascularization (dogs).

P50HL-17646-04 0014 (SRC) HENRY, PHILIP D. Study of ischemic heart disease--Progression of ischemic injury in conscious dogs (also rabbits).

P50HL-17646-04 0015 (SRC) ROBERTS, ROBERT. Study of ischemic heart disease-Protecting ischemic myocardium in patients with evolving myocardial infarction.

P50HL-17646-04 0016 (SRC) NEEDLEMAN, PHILIP. Study of ischemic heart disease--Humoral factors in ischemic heart rhythm, mechanical performance (dog, rabbit).

P50HL-17646-04 0017 (SRC) SOBEL, BURTON E. Study of ischemic heart disease--Dysrhythmia associated with acute myocardial infarction (human, cat).

P50HL-17648-04 (SRC) RESNEKOV, LEON, UNIVERSITY OF CHICAGO, 950 EAST 59TH STREET, CHICAGO, ILL. Study of ischemic heart disease.

P50HL-1764B-04 0004 (SRC) HARPER, PAUL V. Study of ischemic heart disease--Radionuclide imaging studies (human, pig).

P50HL-17648-04 0006 (SRC) BROOKS, HAROLD L. Study of ischemic heart disease--Ventricular performance and myocardial perfusion in obstructive coronary disease.

P50HL-17648-04 0011 (SRC) SKINNER, DAVID B. Study of ischemic heart disease--Surgical treatment for acute myocardial ischemia (human, dogs).

P50HL-17648-04 0012 (SRC) ANAGNOSTOPOULOS, C E. Study of ischemic heart disease--Retrograde coronary venous perfusion--Acute myocardial ischemia.

P50HL-17648-04 0013 (SRC) GLAGOV, SEYMOUR. Study of ischemic heart disease--Fate of bypassed and bypassing vessels (dogs).

P50HL-17648-04 0014 (SRC) ARNSDORF, MORTON F. Study of ischemic heart disease--Antidysrhythmic drugs and mammalian cardiac Purkinje fibers (sheep, dog).

P50HL-17648-04 0016 (SRC) COHEN, HOWARD C. Study of ischemic heart disease--Intraventricular conduction--Effect of pacing on conduction and automaticity.

P50HL-1764B-04 0018 (SRC) CHILDERS, RORY W. Study of ischemic heart disease--Myocardial damage--Infarction vectors recalled by premature atrial stimulation.

P50HL-17648-04 0020 (SRC) WISSLER, ROBERT W. Study of ischemic heart disease--Core pathology laboratory--Ischemic heart disease (human, animal).

P50HL-17648-04 0021 (SRC) BROOKS, HAROLD L. Study of ischemic heart disease--Biventricular contractile responses to acute myocardial infarction (mammals).

P50HL-17648-04 0023 (SRC) COHEN, LOUIS. Study of ischemic heart disease--Chemical mediators of inflammation in acute myocardial infarction (mammals).

P50HL-1764B-04 0025 (SRC) ZAK, RADOVAN. Study of ischemic heart disease--Destruction and repair of cardiac muscle cell constituents (rat).

P50HL-17648-04 0026 (SRC) FISCHMAN, DONALD A. Study of ischemic heart disease--Control of muscle cell proliferation (organ culture).

P50HL-17648-04 0027 (SRC) GETZ, GODFREY. Study of ischemic heart disease--Phospholipid metabolism following cardiac injury and repair (rat).

P50HL-17648-04 002B (SRC) FOZZARD, HARRY A. Study of ischemic heart disease--Electrophysiology of sympathetic innervation in tissue culture.

P50HL-17648-04 0031 (SRC) PAGE, ERNEST. Study of ischemic heart disease--Ultrastructural consequences of myocardial ischemia (rat).

P50HL-17648-04 0032 (SRC) MEIER, PAUL. Study of ischemic heart disease--Data management--Statistics and data files.

P50HL-1764B-04 0033 (SRC) KINIAS, PLATO. Study of ischemic heart disease--Data management--Electrocardiographic analysis system.

P50HL-17648-04 0034 (SRC) PAI, A L. Study of ischemic heart disease--Data management--Hemodynamic data.

P50HL-17651-04 (HEPA) SWAN, HAROLD J, 8700 BEBERLY BLVD, 4833 FOUNTAIN AVENUE, LOS ANGELES, CALIF. Ischemic heart disease specialized center of research.

P50HL-17651-04 0002 (HEPA) GANZ, WILLIAM. Ischemic heart disease specialized center of research--Reduction of myocardial ishemic injury by pharmacologic agents (human, dog).

P50HL-17651-04 0015 (HEPA) VYDEN, JOHN K. Ischemic heart disease specialized center of research--Peripheral circulation in acute myocardial ischemia and infarction (human).

P50HL-17651-04 0016 (HEPA) CORDAY, ELIOT. Ischemic heart disease specialized center of research--Retroperfusion of coronary venus circulation with therapeutic agents (dogs).

P50HL-17651-04 0022 (HEPA) MANDEL, WILLIAM J. Ischemic heart disease specialized center of research--Electrophysiology--Mechanism and pharmacology of arrhythmias (human, dog).

P50HL-17651-04 0023 (HEPA) GANZ, WILLIAM. Ischemic heart disease specialized center of research--Development of multipurpose catheter for monitoring and electronic pacing.

P50HL-17651-04 0032 (HEPA) GRAY, RICHARD. Ischemic heart disease specialized center of research--Cardiovascular surgery core (human, dogs).

P50HL-17651-04 0033 (HEPA) STANKUS, KATHERINE E. Ischemic heart disease specialized center of research--Core facilities--Computer sciences.

P50HL-17651-04 0034 (HEPA) STANKUS, KATHERINE E. Ischemic heart disease specialized center of research--Core facilities--Data management.

P50HL-17651-04 0035 (HEPA) VAS, RAN. Ischemic heart disease specialized center of research-Core facilities--Biomedical engineering, biophysics

P50HL-17651-04 0036 (HEPA) SHELL, WILLIAM Ischemic heart disease specialized center of research-Core facilities-Cardiovascular pathology (human, dog)

P50HL-17651-04 0037 (HEPA) GANZ, WILLIAM. Ischemic heart disease specialized center of research-Measurement of coronary venous outflow by thermodilution (human)

P50HL-17651-04 0038 (HEPA) GANZ, WILLIAM. Ischemic heart disease specialized center of research--Cardiothermography (human, dog)

P50HL-17651-04 0039 (HEPA) SHELL, WILLIAM E. Ischemic heart disease specialized center of research--Measurement and prediction of infarct size (human, dog)

P50HL-17651-04 0041 (HEPA) SHELL, WILLIAM E. Ischemic heart disease specialized center of research--Biochemical indices of ischemic injury (guinea pig)

P50HL-17651-04 0043 (HEPA) MEERBAUM, SAMUEL. Ischemic heart disease specialized center of research--Gradual reperfusion following acute coronary occlusion (dog).

P50HL-17651-04 0044 (HEPA) GRAY, RICHARD. Ischemic heart disease specialized center of research--Limb blood flow after myocardial revascularization (human).

P50HL-17651-04 0045 (HEPA) VYDEN, JOHN K. Ischemic heart disease specialized center of research--Peripheral vascular studies-Pharmacology (dogs, human).

P50HL-17651-04 0046 (HEPA) SINGH, BRAMAH N. Ischemic heart disease specialized center of research--Clinical core--Physiological changes/biochemical effects of myocardial ischemia

P50HL-17651-04 0047 (HEPA) GANZ, WILLIAM. Ischemic heart disease specialized center of research--Clinical core-Automated arrhythmia monitoring system.

P50HL-17651-04 0048 (HEPA) SINGH, BRAMAH N. Ischemic heart disease specialized center of research--Non-invasive detection of ischemic heart disease.

P50HL-17655-04 (SRC) WEISFELDT, MYRON L, JOHNS HOPKINS UNIVERSITY, 601 NORTH BROADWAY, BALTIMORE, MD. Study of ischemic heart disease.

P50HL-17655-04 0001 (SRC) BULKLEY, BERNADINE H. Study of ischemic heart disease--Intravenous nitroglycerin--Ventricular function and infarct size (human, dog).

P50HL-17655-04 0003 (SRC) WEISFELDT, MYRON L. Study of ischemic heart disease--Cardiopulmonary resuscitation (human, dog).

P50HL-17655-04 0004 (SRC) HUMPHRIES, J ONEAL. Study of ischemic heart disease--Coronary arteriography in survivors of acute myocardial infarction (human).

P50HL-17655-04 0006 (SRC) GRIFFITH, LAWRENCE S C. Study of ischemic heart disease--Evaluation of coronary artery bypass graft surgery (human).

P50HL-17655-04 0009 (SRC) BECKER, LEWIS. Study of ischemic heart disease--Random trial of medical and surgical therapy in unstable angina (human).

P50HL-17655-04 0010 (SRC) HUTCHINS, GROVER M. Study of ischemic heart disease--Core facility--Cardiovascular pathology (human, animal).

P50HL-17655-04 0011 (SRC) BECKER, LEWIS C. Study of ischemic heart disease--Core facility--Cardiovascular nuclear medicine (human, dog).

P50HL-17655-04 0012 (SRC) BUROW, ROBERT D. Study of ischemic heart disease--DATA management.

P50HL-17655-04 0014 (SRC) FLAHERTY, JOHN T. Study of ischemic heart disease--Blood flow and gas tension in myocardial ischemia and infarction (dog, monkey).

P50HL-17665-04 (SRC) HABER, EDGAR, MASSACHUSETTS GENERAL HOSPITAL, FRUIT STREET, BOSTON, MASS. Study of ischemic heart disease.

P50HL-17665-04 0001 (SRC) LEINBACH, ROBERT C. Study of ischemic heart disease--Reduction of acute anterior myocardial infarction--Mechanical circulatory assist.

P50HL-17665-04 0002 (SRC) GOLD, HERMAN K. Study of ischemic heart disease--Reducing acute anterior myocardial infarction--Beta adrenergic blockade (human).

P50HL-17665-04 0003 (SRC) LEINBACH, ROBERT C. Study of ischemic heart disease--Quantitation of injury--Acute myocardial infarction complicated by shock (human).

P50HL-17665-04 0005 (SRC) GOLD, HERMAN K. Study of ischemic heart disease--Evaluation of zone of jeopardized myocardium in patients with angina pectoris.

P50HL-17665-04 0008 (SRC) MAROKO, PETER R. Study of ischemic heart disease--Core laboratory--CPK isoenzyme measurement and myocardial necrosis evaluation.

P50HL-17665-04 0011 (SRC) GOLD, HERMAN K. Study of ischemic heart disease--Development of new methods for the determination of infarct size (dog, human).

P50HL-17665-04 0012 (SRC) VATNER, STEPHEN F. Study of ischemic heart disease--Myocardial ischemia--Cardiovascular performance in the conscious baboon and dog.

P50HL-17665-04 0013 (SRC) HUTTER, ADOLPH M. Study of ischemic heart disease--National cooperative study in unstable angina pectoris (human).

P50HL-17665-04 001B (SRC) HUTTER, ADOLPH M. Study of ischemic heart disease--Computer correlation of data--Patients with ischemic heart disease.

P50HL-17665-04 0020 (SRC) BUCKLEY, MORTIMER J. Study of ischemic heart disease--Ischemic injury to myocardium during measured states of ischemia (human).

P50HL-17665-04 0021 (SRC) LEVINE, FREDERICK D. Study of ischemic heart disease--Identification, prevention--Myocardial ischemia in cardiopulmonary bypass (dog).

P50HL-17665-04 0022 (SRC) LEVINE, FREDERICK H. Study of ischemic heart disease--Effect of coronary revascularization on left ventricular function (human).

P50HL-17665-04 0026 (SRC) LOWENSTEIN, EDWARD. Study of ischemic heart disease--Anesthesia--Myocardial ischemia and hemodynamics in coronary disease (human).

P50HL-17665-04 0027 (SRC) STRAUSS, H WILLIAM. Study of ischemic heart disease--Positron imaging of regional myocardial perfusion (human, dog).

P50HL-17665-04 0028 (SRC) TRELSTAD, ROBERT L. Study of ischemic heart disease--Pathologic and biochemical studies of ischemic myocardium (human, dog).

P50HL-17665-04 0029 (SRC) TAEGTMEYER, HEINRICH. Study of ischemic heart disease--Myocardial protein synthesis and degradation in low oxygen states (rabbit, dog).

P50HL-17665-04 0030 (SRC) KAPLAN, EDWARD M. Study of ischemic heart disease--Data management.

P50HL-17665-04 0032 (SRC) KHAW, BAN AN. Study of ischemic heart disease--Myocardial infarct sizing--Immunoassay for cardiac myosin light chains (dogs).

P50HL-17667-04 (SRC) RACKLEY, CHARLES E, UNIVERSITY DF ALABAMA, UNIVERSITY STATION, BIRMINGHAM, ALA. Study of ischemic heart disease.

P50HL-17667-04 0001 (SRC) OBERMAN, ALBERT. Study of ischemic heart disease--Natural history of ischemic heart disease (human).

P50HL-17667-04 0012 (SRC) REDDY, WILLIAM J. Study of ischemic heart disease--Biochemistry of normal and ischemic heart--Glycolysis (rats).

P50HL-17667-04 001B (SRC) MANTLE, JOHN A. Study of ischemic heart disease--Arrhythmias in ischemic heart disease (human).

P50HL-17667-04 0019 (SRC) KOUCHOUKOS, NICHOLAS T. Study of ischemic heart disease--Assessment of long-term results of coronary artery bypass grafting (human).

P50HL-17667-04 0022 (SRC) BLACKSTONE, EUGENE H. Study of ischemic heart disease--Preventing myocardial injury in surgery using cardiopulmonary bypass (human, rat).

P50HL-17667-04 0029 (SRC) WALDO, ALBERT L. Study of ischemic heart disease--Computer diagnosis of cardiac arrhythmias after open heart surgery (human).

P50HL-17667-04 0030 (SRC) WIXSON, STEVEN E. Study of ischemic heart disease--Computerized clinical data acquisition and processing.

P50HL-17667-04 0031 (SRC) JAMES, THOMAS N. Study of ischemic heart disease--Pathophysiology in ischemic heart disease (dog, cat, rabbit, monkey).

P50HL-17667-04 003B (SRC) RACKLEY, CHARLES E. Study of ischemic heart disease--Clinical core unit.

P50HL-17667-04 0039 (SRC) HOOD, WILLIAM P. Study of ischemic heart disease--Core human investigative laboratories.

P50HL-17667-04 0040 (SRC) MCDANIEL, HUEY G. Study of ischemic heart disease--Core biochemistry--Cardiac metabolism (human).

P50HL-17667-04 0041 (SRC) MACY, JOSIAH, JR. Study of ischemic heart disease--Biophysical sciences core--Data collection and retrieval.

P50HL-17667-04 0042 (SRC) WIXSON, STEVEN E. Study of ischemic heart disease--Core--Central instrumentation and software.

P50HL-17667-04 0043 (SRC) MCDANIEL, HUEY G. Study of ischemic heart disease--Quantitation of myocardial infarct size by serial enzyme measurements (human).

P50HL-17667-04 0044 (SRC) SMITH L. RICHARD. Study of ischemic heart disease--Core--Data management and analysis.

P50HL-17667-04 0045 (SRC) BISHOP, SANFORD P. Study of ischemic heart disease--Pathology of myocardial ischemic necrosis (human).

P50HL-17669-04 (SRC) WILLERSON, JAMES T, UNIVERSITY OF TEXAS, 5323 HARRY HINES BOULEVARD, DALLAS, TEX. Ischemic heart disease center (SCDR).

P50HL-17669-04 0001 (SRC) STONE, MARVIN J. Ischemic heart disease center (SCOR)--Radioimmunoassays for CPK isoenzyme and myoglobin (human, dog).

P50HL-17669-04 0002 (SRC) SMITHERMAN, THOMAS C. Ischemic heart disease center (SCOR)--Myocardial infarction sizing by radioimmunoassay of cardiac myosin (dogs).

P50HL-17669-04 0006 (SRC) WILLERSON, JAMES T. Ischemic heart disease center (SCOR)--Studies of hypoxic, acidotic and ischemic cardiac muscle (dogs).

P50HL-17669-04 0007 (SRC) TEMPLETON, GORDON H. Ischemic heart disease center (SCOR)--Relationship between myocardial depression and compliance (dogs, cats).

P50HL-17669-04 000B (SRC) LIPSCOMB, KIRK. Ischemic heart disease center (SCOR)--Segmental ventricular dysfunction during stress-induced ischemia (dog, human).

P50HL-17669-04 0009 (SRC) PARKEY, ROBERT W. Ischemic heart disease center (SCOR)--Infarct volume--99Tc stannous pyrophosphate myocardial scintigrams (dogs, human).

P50HL-17669-04 0011 (SRC) WILDENTHAL, C KERN. Ischemic heart disease center (SCOR)--Lysosomal function and lysosomal enzymes in normal and ischemic heart (rabbit).

P50HL-17669-04 0012 (SRC) EBERHART, ROBERT C. Ischemic heart disease center (SCOR)--Circulatory assistance (human, dog).

P50HL-17669-04 0013 (SRC) BLOMQVIST, C GUNNAR. Ischemic heart disease center (SCOR)--Exercise in patients with ischemic heart disease.

P50HL-17669-04 0022 (SRC) BUJA, L MAXIMILIAN. Ischemic heart disease center (SCOR)--Pathological studies of human and experimental ischemic heart disease.

P50HL-17669-04 0023 (SRC) WILLERSON, JAMES T. Ischemic heart disease center (SCOR)--Patients with acute myocardial infarction and myocardial ischemia (human).

P50HL-17670-04 (SRC) ROSATI, ROBERT A, OUKE HDSPITAL, BOX 3337, DURHAM, N C. Study of ischemic heart disease.

P50HL-17670-04 0001 (SRC) ROSATI, ROBERT A. Study of ischemic heart disease--Data management.

P50HL-17670-04 0005 (SRC) GREENFIELD, JOSEPH C. Study of ischemic heart disease--Quantitative assessment of the vectorcardiogram (human).

P50HL-17670-04 0006 (SRC) OLDHAM, H NEWLAND. Study of ischemic heart disease--Assessment of coronary artery hemodynamics and myocardial blood flow (human).

P50HL-17670-04 000B (SRC) GALLAGHER, JOHN J. Study of ischemic heart disease--Surgical treatment of cardiac rhythm disorders (human, dogs).

P50HL-17670-04 0009 (SRC) WECHSLER, ANDREW S. Study of ischemic heart disease--Surgical treatment of localized left ventricular dyssynergy (human, dogs).

P50HL-17670-04 0011 (SRC) STRAUSS, HAROLD C. Study of ischemic heart disease--Pharmacology of ischemic myocardium (dogs).

P50HL-17670-04 0012 (SRC) WAGNER, GALEN S. Study of ischemic heart disease--Epidemiology of sudden death (human).

P50HL-17670-04 0014 (SRC) VONRAMM, OLAF T. Study of ischemic heart disease--Real time ultrasound imaging in ischemic heart disease (human, dog).

P50HL-17670-04 0015 (SRC) JONES, ROBERT H. Study of ischemic heart disease--Radionuclide studies of myocardial ischemia (human).

P50HL-17670-04 0016 (SRC) HACKEL, DONALD B. Study of ischemic heart disease--Core pathology laboratory (human, dogs, monkeys).

P50HL-17670-04 0017 (SRC) ROE, CHARLES R. Study of ischemic heart disease--Core enzymology laboratory (human).

P50HL-17670-04 001B (SRC) GREENFIELD, JOSEPH C. Study of ischemic heart disease--Core electrocardiogram laboratory (human).

P50HL-17670-04 0020 (SRC) COBB, FREDERICK R. Study of ischemic heart disease--Radionuclide evaluation of coronary artery disease (human, dog).

P50HL-17670-04 0021 (SRC) ROE, CHARLES R. Study of ischemic heart disease--Enzymatic evaluation of acute myocardial infarction (dogs).

P50HL-17670-04 0022 (SRC) SNOW, T RUSSELL. Study of ischemic heart disease--Myocardial metabolism in hypoxia and recover (rabbit, toad, dog).

P50HL-17670-04 0023 (SRC) JENNINGS, ROBERT B. Study of ischemic heart disease--Energy metabolism in acute myocardial ischemic injury (dogs).

P50HL-176B2-04 (SRC) ROSS, JOHN, JR, UNIV DF CALIFORNIA, SAN OIEGD, OEPT OF MEDICINE, M-013, LA JOLLA, CALIF. Study of ischemic heart disease.

P50HL-176B2-04 0001 (SRC) KARLINER, JOEL S. Study of ischemic heart disease--Studies in acute and chronic ischemic heart disease (human).

P50HL-176B2-04 0003 (SRC) PETERSON, KIRK L. Study of ischemic heart disease--Effects of myocardial revascularization in man.

P50HL-176B2-04 0005 (SRC) PETERSON, KIRK L. Study of ischemic heart disease--Regional myocardial perfusion deficits and segmental contraction disorders in man.

P50HL-176B2-04 0007 (SRC) WEST, JOHN B. Study of ischemic heart disease--Mechanisms of hypoxemia in myocardial infarction (human).

P50HL-176B2-04 000B (SRC) KARLINER, JOEL S. Study of ischemic heart disease--Clinical core unit.

P50HL-176B2-04 0009 (SRC) COVELL, JAMES W. Study of ischemic heart disease--Computer core unit.

P50HL-176B2-04 0010 (SRC) DELUCA, MARLENE A. Study of ischemic heart disease--Core clinical enzyme laboratory (human, mice, dogs, rats).

P50HL-176B2-04 0011 (SRC) ASHBURN, WILLIAM L. Study of ischemic heart disease--Nuclear medicine core unit (human, dogs, rabbits, mice).

P50HL-176B2-04 0012 (SRC) BLOOR, COLIN M. Study of ischemic heart disease--Pathology core laboratory (human).

P50HL-176B2-04 0013 (SRC) COVELL, JAMES W. Study of ischemic heart disease--Chronic ischemic heart disease--Myocardial function and metabolism (dogs, swine).

P50HL-176B2-04 0014 (SRC) FRANKLIN, DEAN L. Study of ischemic heart disease--Myocardial ischemia--Instrumentation and technique (dogs, baboons).

P50HL-176B2-04 0015 (SRC) ROSS, JOHN, JR. Study of ischemic heart disease--Acute myocardial ischemia and infarction and their reversibility (dogs, baboons).

P50HL-176B2-04 0016 (SRC) BLOOR, COLIN M. Study of ischemic heart disease--Endurance exercise--Prevention and rehabilitation in ischemic heart disease (pig).

P50HL-176B2-04 001B (SRC) DELUCA, MARLENE A. Study of ischemic heart disease--Biochemistry of ischemia--Heart cell and organ culture (mice, rats, cattle).

P50HL-176B2-04 0020 (SRC) MAYER, STEVEN E. Study of ischemic heart disease--Nucleotide and nucleoside metabolism in ischemic myocardium.

P50HL-176B2-04 0021 (SRC) PRINTZ, MORTON P. Study of ischemic heart disease--Prostaglandin biosynthesis in blood vessels from ischemic myocardium (rat, sheep).

P50HL-176B2-04 0023 (SRC) DELUCA, MARLENE A. Study of ischemic heart disease--Core cell and organ culture laboratory (mice).

P50HL-176B2-04 0024 (SRC) STULL, JAMES T. Study of ischemic heart disease--Phosphorylation of cardiac contractile proteins during ischemia (rat, guinea pig).

R01HL-176B9-06 (CVA) ELDRIDGE, FREDERIC L, UNIVERSITY OF NORTH CAROLINA, OEPT OF PHYSIOLOGY, CHAPEL HILL, N C. Neurophysiologic studies of respiratory control (cats).

R01HL-17702-04 (PHY) MORAD, MARTIN, UNIVERSITY OF PENNSYLVANIA, OEPARTMENT OF PHYSIOLOGY, PHILADELPHIA, PA. Electro-optical dyes as probes of heart excitability.

R01HL-17705-04 (CVB) MARGOLIUS, HARRY S, MEO UNIV OF SOUTH CAROLINA, 80 BARRE STREET, CHARLESTON, S C. Kallikrein-kinin system in hypertension (human, rats, dogs).

R01HL-17706-04 (EXP) HENRY, JAMES P, UNIV OF SOUTHERN CALIFORNIA, 815 W 37TH STREET, LOS ANGELES, CALIF. Psychosocial hypertension, catecholamines and drugs (mice).

R01HL-17710-04 (GEN) BAGLIONI, CORRADO, S U N Y - AT ALBANY, 1400 WASHINGTDN AVENUE, ALBANY, N Y. Selective replication of hemoglobin genes (mice, ducks, human).

R01HL-17711-05 (CVB) BERGOFSKY, EDWARD H, OEPARTMENT DF MEDICINE, STATE UNIVERSITY DF NEW YORK, STONY BRDOK, N Y. Mechanism of hypoxic regulation of lung circulation (rats, cats, guinea pigs).

R01HL-17715-04 (PHY) SHANNON, ROGER, UNIVERSITY OF SDUTH FLDRIDA, DEPARTMENT OF PHYSIOLDGY, TAMPA, FLA. Respiratory muscle afferents in respiratory control (cats).

R01HL-17719-03 (CVA) TIERNEY, DONALD F, UNIVERSITY OF CALIFORNIA, DEPARTMENT OF MEOICINE, LOS ANGELES, CALIF. Lung injury, substrate utilization, oxygen toxicity (rats, rabbits, dogs).

R01HL-17721-04 (CVB) FISCHER, GRACE M, BOCKUS RESEARCH INSTITUTE, 19TH AND LOMBARD STREETS, PHILADELPHIA, PA. Effect of sex hormones on vascular connective tissue (rats).

R01HL-17724-03 (CVB) LEW, GLORIA M, MICHIGAN STATE UNIVERSITY, DEPARTMENT OF ANATOMY, EAST LANSING, MICH. Oral contraceptives and hypertension (rats).

R01HL-17726-03 (HEM) KINGDON, HENRY S, UNIVERSITY OF NORTH CAROLINA, OIVISION OF HEMATOLOGY, CHAPEL HILL, N C. Bacterial heparinase in diagnostic coagulation studies.

R01HL-17729-04 (HEM) DETWILER, THOMAS C, S U N Y - OOWNSTATE MEO CTR, 450 CLARKSON AVENUE, BROOKLYN, N Y. Stimulus-response coupling in platelets (human).

P01HL-17731-04 (HEPA) WEST, JOHN B, UNIVERSITY OF CALIFORNIA, OEPARTMENT OF MEDICINE, LA JOLLA, CALIF. Physiological basis of pulmonary disease.

P01HL-17731-04 0001 (HEPA) WEST, JOHN B. Physiological basis of pulmonary disease--Mechanisms of blood flow and ventilation (dogs).

P01HL-17731-04 0002 (HEPA) FUNG, YUAN-CHENG B. Physiological basis of pulmonary disease--Biomechanics of the lung (frogs, cats)

P01HL-17731-04 0003 (HEPA) KOOYMAN, GERALD L. Physiological basis of pulmonary disease--Comparative physiology (vertebrates).

P01HL-17731-04 0006 (HEPA) WAGNER, PETER D. Physiological basis of pulmonary disease--Ventilation-perfusion ratios (human, dogs).

P01HL-17731-04 0007 (HEPA) EVANS, JOHN W. Physiological basis of pulmonary disease--Theoretical gas exchange

P01HL-17731-04 0010 (HEPA) HILL, ESTHER P. Physiological basis of pulmonary disease--Gas exchange kinetics (dogs).

P01HL-17731-04 0011 (HEPA) WEST, JOHN B. Physiological basis of pulmonary disease--Morphometric studies of the lung--Core.

P01HL-17731-04 0012 (HEPA) EVANS, JOHN W. Physiological basis of pulmonary disease--Statistics and computing--Core.

R01HL-17732-03 (AFY) STOLWIJK, JAN A, JOHN B PIERCE FDN LABORATORY, 290 CONGRESS AVENUE, NEW HAVEN, CONN. Peripheral venomotor control in thermal stress (human).

R01HL-17736-04 (CVB) SHUG, AUSTIN L, VETERANS ADMINISTRATION HOSP, 250D OVERLOOK TERRACE, MADISON, WIS. Metabolic change during cardiac ischemia (rats, dogs).

R01HL-17739-04 (RAD) HOLMAN, B LEONARD, HARVARD MEDICAL SCHOOL, 50 BINNEY STREET, BOSTON, MASS. Acute myocardial infarct scintigraphy (human, dogs, rats).

R01HL-17747-04 (PTHA) KARNOVSKY, MORRIS J, HARVARD MEDICAL SCHOOL, 25 SHATTUCK STREET, BOSTON, MASS. Endothelial injury and regeneration (rats).

R01HL-17749-03 (CVB) NEW, MARIA I, CORNELL UNIVERSITY, 1300 YORK AVENUE, NEW YORK, N Y. Adrenocortical factors in human hypertension (human).

R01HL-17751-03 (BM) PETERSDORF, ROBERT G, UNIVERSITY OF WASHINGTON, 1959 PACIFIC AVENUE, N E, SEATTLE, WASH. Experimental endocarditis (rabbits).

R01HL-17752-03 (HEM) PECHET, LIBERTO, UNIVERSITY OF MASSACHUSETTS, 55 LAKE AVENUE NORTH, WORCESTER, MASS. Purified human clotting factor IX--Immunologic studies (human).

R01HL-17754-03 (CVB) OKAMOTO, KOZO, KINKI UNIVERSITY, SAYAMA-CHO, MINAMI-KAWACHI-GUN, OSAKA-FU, JAPAN. Pathogenesis and prevention of hypertension sequelae (rats).

R01HL-17759-03 (SGYB) BITTAR, NEVILLE, CARDIOVASCULAR RESEARCH LAB, 420 NORTH CHARTER ST, ROOM 523, MADISON, WIS. Studies of myocardial reactive hyperemia (dogs, human).

R01HL-17768-04 (CVA) ROBINSON, NORMAN E, MICHIGAN STATE UNIVERSITY, DEPARTMENT OF PHYSIOLOGY, EAST LANSING, MICH. Development of collateral ventilation (dogs, fish, horses).

R01HL-17769-03 (RAD) JACOBS, JOHN E, NORTHWESTERN UNIVERSITY, 2145 SHERIDAN ROAD, EVANSTON, ILL. New methods of studying blood coagulation kinetics.

R01HL-17776-04 (CVA) WOOD, ROBERT E, RAINBOW BABIES & CHILDRENS HOS, 2103 ADELBERT ROAD, CLEVELAND, OHIO. Pulmonary mucus transport in obstructive lung diseases (human).

R01HL-17781-03 (CVB) PINTER, GABRIEL G, UNIVERSITY OF MARYLAND, 660 WEST REDWOOD STREET, BALTIMORE, MD. Hypertension, kidney disease and renal lymph (dogs, rats).

R01HL-17783-04 (PC) ELBEIN, ALAN D, UNIVERSITY OF TEXAS, 7703 FLOYD CURL DRIVE, SAN ANTONIO, TEX. Complex carbohydrates--Structure, function, synthesis (swine).

R01HL-17794-03 (MCHB) BALDWIN, JACK E, MASSACHUSETTS INST OF TECH, DEPARTMENT OF CHEMISTRY, CAMBRIDGE, MASS. Chelating agents as blood substitutes.

R01HL-17796-04 (PHRA) CALDWELL, ROBERT W, UNIVERSITY OF TENNESSEE, 8D0 MADISON AVENUE, MEMPHIS, TENN. Importance of aminosugars in digitalis activity (cats, rabbits).

R01HL-17799-02 (CVB) BROWN, OLIVER M, 750 EAST ADAMS STREET, SYRACUSE, N Y. The presence and significance of heart acetylcholine (cats).

R01HL-17800-04 (CVA) KALIA, MADHU, HAHNEMANN MED COLL & HOSP, 230 NORTH BROAD STREET, PHILADELPHIA, PA. Pulmonary reflexes--Central pathways (cats, dogs, rabbits).

R01HL-17808-03 (CVA) WOODSON, ROBERT D, UNIVERSITY OF WISCONSIN, 130D UNIVERSITY AVENUE, MADISON, WIS. Effect of altered oxygen affinity on oxygen transport (human, rats).

R01HL-17809-04 (CVA) COHEN, MICHAEL V, MONTEFIORE HOSP & MED CTR, 111 E 210TH STREET, BRONX, N Y. Effects of exercise on the coronary vasculature (rat, dog).

P01HL-17812-04 (HEP) TAYLOR, FLETCHER B, JR, UNIVERSITY OF OKLAHOMA, POST OFFICE BOX 26901, OKLAHOMA CITY, OKLA. Thrombosis and plasma proteins.

P01HL-17812-04 0001 (HEP) TAYLOR, FLETCHER B, JR. Thrombosis and plasma proteins--Thrombosis and plasma proteins (cattle, guinea pigs).

P01HL-17812-04 0002 (HEP) RADCLIFFE, ROBERT. Thrombosis and plasma proteins--Activators of fibrinolysis--Synthesis and degradation (human, cattle).

P01HL-17812-04 0004 (HEP) TAYLOR, FLETCHER B, JR. Thrombosis and plasma proteins--Serum-platelet interaction (human).

P01HL-17812-04 0005 (HEP) GILLIAM, JAMES M. Thrombosis and plasma proteins--In vitro systems of normal platelets, white cells, sera (human).

P01HL-17812-04 0007 (HEP) HINSHAW, LERNER B. Thrombosis and plasma proteins--Blood components--Response to endotoxin (dogs, baboons).

P01HL-17813-04 (HEP) HARVEY, REJANE M, COLUMBIA UNIVERSITY, 63D WEST 168TH STREET, NEW YORK, N Y. Lung disease and the oxygenation of blood and tissue.

P01HL-17813-04 0001 (HEP) ENSON, YALE. Lung disease and the oxygenation of blood and tissue--Diffuse interstitial lung disease--Pathophysiology (human, dogs).

P01HL-17813-04 0002 (HEP) BLANC, WILLIAM A. Lung disease and the oxygenation of blood and tissue--Diffuse interstitial lung disease--Ultrastructural abnormalities (human).

P01HL-17813-04 0006 (HEP) BRAUN, NORMA. Lung disease and the oxygenation of blood and tissue--Assessment of respiratory muscle contractile force (human, dogs).

P01HL-17813-04 0007 (HEP) CALDWELL, PETER R B. Lung disease and the oxygenation of blood and tissue--Studies on the function of myoglobin (dogs).

P01HL-17813-04 0008 (HEP) CALDWELL, PETER R B. Lung disease and the oxygenation of blood and tissue--Pulmonary regulation of systemic blood pressure (human, rabbits, rats)

R01HL-17818-05 (MET) SALEN, GERALD, VETERANS ADMINISTRATION HOSP, TRE MONT AVENUE, EAST ORANGE, N J. Metabolism of cholesterol and cholesterol in man (also rats, monkeys)

R01HL-17821-03 (SGYB) WALKER, WILLIAM F, RICE UNIVERSITY, POST OFFICE BOX 1892, HOUSTON, TEX. Cavitation phenomena near prosthetic devices.

R01HL-17826-04 (BBCB) CHANCE, BRITTON, UNIVERSITY OF PENNSYLVANIA, SCHOOL OF MEDICINE, PHILADELPHIA, PA. Oxygen delivery to tissue (rat, dog).

R01HL-17828-04 (BMT) WILKINS, RALPH G, NEW MEXICO STATE UNIVERSITY, BOX 3C, LAS CRUCES, N MEX. Kinetic studies of hemerythrin reactions (marine worms).

R01HL-17844-04 (SGYA) GEYER, ROBERT P, HARVARD SCHOOL OF PUB HLTH, 665 HUNTINGTON AVENUE, BOSTON, MASS. Artificial blood substitutes--D2-binding iron chelates (human, mammals).

R01HL-17847-04 (PHY) ZATZMAN, MARVIN L, UNIVERSITY OF MISSOURI, DEPARTMENT OF PHYSIOLOGY, COLUMBIA, MO. Cardiovascular and renal functions of marmots.

R01HL-17853-03 (CVA) ZELIS, ROBERT F, MILTON S HERSHEY MEDICAL CTR, DIVISION OF CARDIOLOGY, HERSHEY, PA. Peripheral circulation in heart failure (animals).

R01HL-17859-04 (SGYB) PESKIN, CHARLES S, NEW YORK UNIVERSITY, 251 MERCER STREET, NEW YORK, N Y. Computational methods in cardiac fluid dynamics.

R01HL-17865-04 (CVB) BOUCEK, ROBERT J, JR, UNIVERSITY OF MIAMI, POST OFFICE BOX 520875, MIAMI, FLA. Studies on aging--Effects of sex hormones (rats, dogs).

P01HL-17871-04 (HEP) TOBIAN, LOUIS, UNIVERSITY OF MINNESOTA HOSPS, DEPARTMENT OF MEDICINE, MINNEAPOLIS, MINN. Kidney, sodium, cardiac output, arterioles and hypertension.

P01HL-17871-04 0009 (HEP) ZIMMERMAN, BEN G. Kidney, sodium, cardiac output, arterioles and hypertension--Kidney, sodium, cardiac output, arterioles and hypertension.

P01HL-17871-04 0010 (HEP) DUNHAM, EARL W. Kidney, sodium, cardiac output, arterioles and hypertension--Renal prostaglandins metabolism in hypertension (rats, dogs).

P01HL-17871-04 0013 (HEP) AZAR, SILVIA. Kidney, sodium, cardiac output, arterioles and hypertension--Perfusion pressure and renal sodium excretion (rats).

R01HL-17873-04 (CVA) MC FADDEN, EDWARD R, JR, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Pathophysiology of exercise-induced asthma (human).

R01HL-17878-04 (BBCB) BRANDTS, JOHN F, UNIVERSITY OF MASSACHUSETTS, DEPARTMENT OF CHEMISTRY, AMHERST, MASS. Structural studies of the human erythrocyte membrane.

R01HL-17879-04 (MBY) KYTE, JACK E, UNIV OF CALIFORNIA, SAN DIEGO, DEPT OF CHEMISTRY, B-017, LA JOLLA, CALIF. Molecular structure of the ouabain sensitive ATPase (dogs).

R01HL-17881-15 (HEM) AMINOFF, DAVID, UNIVERSITY OF MICHIGAN, 102 OBSERVATORY STREET, ANN ARBOR, MICH. Biosynthesis and degradation of blood group substances (human, animals).

R01HL-17882-04 (PC) SHAPIRO, DAVID J, UNIVERSITY OF ILLINOIS, DEPARTMENT OF BIOCHEMISTRY, URBANA, ILL. Regulation of HMG-COA reductase and sterol synthesis (human, mammals).

R01HL-17895-04 (CVB) ROVETTO, MICHAEL J, THOMAS JEFFERSON UNIVERSITY, PHYSIOLOGY DEPARTMENT, PHILADELPHIA, PA. Myocardial function and metabolism following ischemia (rats).

R01HL-17896-03 (MCHA) STAMMER, CHARLES H, UNIVERSITY OF GEORGIA, CHEMISTRY DEPARTMENT, ATHENS, GA. Dehydropeptide renin substrates.

R01HL-17897-03 (MCHA) COOK, JAMES M, UNIVERSITY OF WISCONSIN, DEPARTMENT OF CHEMISTRY, MILWAUKEE, WIS. Synthesis of alpha and beta adrenergic antagonists.

R01HL-17898-03 (PC) KWITEROVICH, PETER O, JOHNS HOPKINS HOSPITAL, 600 NORTH WOLFE STREET, BALTIMORE, MD. Cell membranes and plasma lipoproteins (human, swine).

R01HL-17902-04 (CVB) GILMORE, JOSEPH P, UNIVERSITY OF NEBRASKA, 42ND AND DEWEY, OMAHA, NEBR. Mammalian renal microcirculation (hamsters).

R01HL-17903-03 (CVA) SONNENSCHEIN, RALPH R, UNIVERSITY OF CALIFORNIA, 405 HILGARD AVENUE, LOS ANGELES, CALIF. Regional circulatory responses to hypoxia (rats, cats, rabbits).

R01HL-17907-04 (CVB) SKINNER, JAMES E, BAYLOR COLLEGE OF MEDICINE, 120D MOURSUND AVENUE, HOUSTON, TEX. Brain regulation of cardiac arrhythmia (pigs, cats, rats).

R01HL-17909-04 (CVB) BOUCEK, ROBERT J, JR, UNIVERSITY OF MIAMI, P O BOX 520875, BISCAYNE ANNEX, MIAMI, FLA. Drug treatment of vascular scleroprotein defects (human, turkeys).

R01HL-17921-04 (MCHA) PORTER, NED A, DUKE UNIVERSITY, DEPARTMENT OF CHEMISTRY, DURHAM, N C. Peroxy radicals to prostaglandins in vessels and lung.

R01HL-17930-03 (HEM) HARBURY, CHRISTINA B, STANFORD UNIVERSITY, 30D PASTEUR DRIVE, STANFORD, CALIF. Platelet membrane function--Assessment and application (animals).

R01HL-17931-04 (CVB) PLONSEY, ROBERT, CASE WESTERN RESERVE UNIV, 109DD EUCLID AVENUE, CLEVELAND, OHIO. Normalized body surface potential maps (children).

R01HL-17932-04 (CVA) BOCKMAN, EMMA L, LOUISIANA STATE UNIVERSITY, 1542 TULANE AVENUE, NEW ORLEANS, LA. Blood flow regulation in muscle (cats).

R01HL-17944-03 (SGYB) HALASZ, NICHOLAS A, UNIVERSITY OF CALIFORNIA, 225 WEST DICKINSON STREET, SAN DIEGO, CALIF. Studies in lung preservation (dogs).

R01HL-17947-04 (CVB) HAAS, ERWIN, MT SINAI HOSPITAL, 18D0 EAST 105TH STREET, CLEVELAND, OHIO. Experimental renal and neurogenic hypertension (human, animals).

R01HL-17954-03 (CVA) LEAMAN, DAVID M, PENNSYLVANIA STATE UNIVERSITY, DIVISION OF CARDIOLOGY, HERSHEY, PA. Narcotics and the circulation (human, dogs, pigs, monkeys).

R01HL-17958-04 (EXP) HARRIS, ALAN H, JOHNS HOPKINS UNIVERSITY, 720 RUTLAND AVENUE, BALTIMORE, MD. Circulatory effects of operant cardiovascular control (baboons).

R01HL-17963-04 (BIO) KHALIFAH, RAJA G, UNIVERSITY OF VIRGINIA, DEPARTMENT OF CHEMISTRY, CHARLOTTESVILLE, VA. Human erythrocyte carbonic anhydrase.

R01HL-17964-04 (HEM) PLOW, EDWARD F, SCRIPPS CLINIC & RESEARCH FDN, 10666 N TORREY PINES ROAD, LA JOLLA, CALIF. The alternate pathway for fibrinolysis (human).

R01HL-17967-04 (PHY) KUTCHAI, HOWARD C, UNIVERSITY OF VIRGINIA, PHYSIOLOGY DEPARTMENT, CHARLOTTESVILLE, VA. Limiting factors in oxygen uptake in the lung.

R01HL-17969-04 (SGYB) NOLAN, STANTON P, UNIVERSITY OF VIRGINIA, BOX 181, CHARLOTTESVILLE, VA. Function and structure of semilunar valves (dogs).

R01HL-17970-04 (AFY) ANDERSON, DAVID E, JOHNS HOPKINS UNIVERSITY, 725 N WOLFE STREET, BALTIMORE, MD. Vascular effects of inhibitory behavioral adaptations (dogs).

R01HL-17973-04 (PTHA) BOOYSE, FRANCOIS M, RUSH-PRESBY-ST LUKE'S MED CTR, 1753 W CONGRESS PKWY, CHICAGO, ILL. Cultured aortic endothelial cells (human, cattle, dogs, swine).

R01HL-17974-03 (SGYA) SHAPIRO, ASCHER H, MASSACHUSETTS INST OF TECH, 77 MASSACHUSETTS AVENUE, CAMBRIDGE, MASS. External pneumatic compression in deep venous thrombosis (human).

R01HL-17976-1B (PC) MANSOUR, TAG E, STANFORD UNIVERSITY, 300 PASTEUR DRIVE, STANFORD, CALIF. Chemical agents and heart glycolytic enzymes (sheep).

R01HL-17993-04 (SGYA) INGELS, NEIL B, JR, PALO ALTO MED RESEARCH FDN, 860 BRYANT STREET, PALO ALTO, CALIF. Ventricular dynamics from surgically inserted markers.

R01HL-17993-04 0001 (SGYA) STINSON, EDWARD B. Ventricular dynamics from surgically inserted markers--Effects of aortocoronary bypass graft surgery on ventricular function (human).

R01HL-17993-04 0002 (SGYA) SCHROEDER, JOHN S. Ventricular dynamics from surgically inserted markers--Left ventricle function in human cardiac allograft.

R01HL-17993-04 0003 (SGYA) ALDERMAN, EDWIN L. Ventricular dynamics from surgically inserted markers--Effects of pharmacologic agents on left ventricular dynamics (human).

R01HL-17993-04 0004 (SGYA) DEBUSK, ROBERT. Ventricular dynamics from surgically inserted markers--Exercise training following coronary artery bypass graft surgery (human).

R01HL-17993-04 0005 (SGYA) ALDERMAN, EDWIN L. Ventricular dynamics from surgically inserted markers--Cardiac dimensions and dynamic after mitral, aortic valve surgery (human).

R01HL-17993-04 0006 (SGYA) INGELS, NEIL B, JR. Ventricular dynamics from surgically inserted markers--Atrial pacing in transplant patients.

R01HL-17993-04 0007 (SGYA) INGELS, NEIL B, JR. Ventricular dynamics from surgically inserted markers--Digitalis after coronary artery surgery (human).

R01HL-17993-04 0008 (SGYA) INGELS, NEIL B, JR. Ventricular dynamics from surgically inserted markers--Exercise after coronary bypass (human).

R01HL-17993-04 0009 (SGYA) INGELS, NEIL B, JR. Ventricular dynamics from surgically inserted markers--Cardiovascular visualization in surgery of growing heart (dogs).

R01HL-17993-04 0010 (SGYA) INGELS, NEIL B, JR. Ventricular dynamics from surgically inserted markers--Postoperative cardiovascular visualization (human).

R01HL-17995-04 (PBC) BUONASSISI, VINCENZO, UNIV OF CALIFORNIA, SAN DIEGO, BIOLOGY DEPT, C-016, LA JOLLA, CALIF. Cellular synthesis and release of mucopolysaccharides (rabbits).

R01HL-1799B-04 (PHY) RENKIN, EUGENE M, UNIVERSITY OF CALIFORNIA, DEPT OF HUMAN PHYSIOLOGY, DAVIS, CALIF. Regulatory mechanisms in blood circulation (dogs).

R01HL-1B002-03 (SGYB) ALTURA, BURTON M, SUNY-DOWNSTATE MEDICAL CENTER, 450 CLARKSON AVENUE, BROOKLYN, N Y. Circulatory shock, trauma and RE-system function (rats).

R01HL-1B003-05 (SSS) SMITH, THOMAS W, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Digitalis--Mechanism and reversal studies (dog, sheep, duck, guinea pig, human).

R01HL-1B004-02 (BBCA) GHOSH, SANTIBRATA, NORTHWESTERN UNIVERSITY, 303 EAST CHICAGO AVENUE, CHICAGO, ILL. Transport through arterial wall--Biophysical aspects (rabbits).

R01HL-1B007-05 (PHY) REMMERS, JOHN E, UNIVERSITY OF TEXAS, PULMONARY DIVISION, GALVESTON, TEX. Neural mechanisms controling motor act of breathing (cats, human).

R01HL-1B010-04 (CVB) RENKIN, EUGENE M, UNIVERSITY OF CALIFORNIA, DAVIS, CALIF. Capillary transport of large molecules (dogs, sheep).

R01HL-1B012-04 (HEM) HARTMANN, ROBERT C, VETERANS ADMINISTRATION HOSP, 13000 NORTH 30TH STREET, TAMPA, FLA. Cellular defects in nocturnal hemoglobinuria (human).

R01HL-1B015-03 (PHRA) ALTURA, BURTON M, S U N Y - DOWNSTATE MED CTR, 450 CLARKSON AVENUE, BROOKLYN, N Y. Pharmacologic studies on vascular smooth muscle (dogs, rats).

R01HL-1B019-04 (CVB) MICHELAKIS, ANDREW M, MICHIGAN STATE UNIVERSITY, DEPARTMENT OF PHARMACOLOGY, EAST LANSING, MICH. The endocrine kidney in hypertension (mice).

R01HL-1B020-04 (CVA) COHN, JAY N, UNIVERSITY OF MINNESOTA, BOX 488, MINNEAPOLIS, MINN. Splanchnic hemodynamics in man.

R01HL-1B022-03 (CVA) CHANG, HSIN-KANG, SUNY-AT BUFFALO, DEPT OF CIVIL ENGINEERING, BUFFALO, N Y. Role of multicomponent diffusion in gas exchange (avian eggs).

R01HL-1B024-03 (CVA) FOX, IRWIN J, UNIVERSITY OF MINNESOTA, 424 MILLARD HALL, MINNEAPOLIS, MINN. Regional myocardial flow and function relationships (dogs).

R01HL-1B027-03 (CVB) MICHELAKIS, ANDREW M, MICHIGAN STATE UNIVERSITY, DEPARTMENT OF PHARMACOLOGY, EAST LANSING, MICH. New vasoactive factors and their role in hypertension (human, dogs, rats).

R01HL-1B028-03 (TOX) SCHANKER, LEWIS S, UNIVERSITY OF MISSOURI, 5100 ROCKHILL ROAD, KANSAS CITY, MO. Absorption of nonvolatile compounds from the lung.

R01HL-1B030-04 (HEM) PUSZKIN, ELENA G, MONTEFIORE HOSPITAL & MED CTR, 111 EAST 210TH STREET, BRONX, N Y. The role of contractile proteins in platelets (human, rabbits).

R01HL-1B032-03 (CVB) SACHS, HOWARD G, UNIVERSITY OF ILLINOIS, 1853 WEST POLK, CHICAGO, ILL. Development of normal and myopathic mammalian heart (hamsters).

R01HL-1B038-03 (BIO) STONER, CLINTON D, OHIO STATE UNIVERSITY, 1314 KINNEAR ROAD, COLUMBUS, OHIO. Structure and function of heart mitochondria (cattle).

R01HL-1B040-04 (SGYB) SCHUDER, JOHN C, UNIVERSITY OF MISSOURI, SURGERY DEPARTMENT, COLUMBIA, MO. Waveform dependency in defibrillation (calves).

R01HL-1B048-04 (BBCB) TSONG, TIAN Y, JOHNS HOPKINS UNIVERSITY, 725 NORTH WOLFE STREET, BALTIMORE, MD. Dynamics of artificial and biological membranes (human).

R01HL-1B050-04 (CVB) GILBERT, ENID F, UNIVERSITY OF WISCONSIN, 470 NORTH CHARTER STREET, MADISON, WISC. Mechanisms of cardiovascular teratogenesis (chick embryo) k embryo).

R01HL-1B053-03 (PHY) WALKER, JOHN L, UNIVERSITY OF UTAH, DEPARTMENT OF PHYSIOLOGY, SALT LAKE CITY, UTAH. Intracellular ionic activities in heart muscle (frogs).

R01HL-1B060-04 (CVB) KRAMSCH, DIETER M, UNIVERSITY HOSPITAL, 75 E NEWTON STREET, BOSTON, MASS. Exercise and coronary atherosclerotic heart disease (monkeys).

R01HL-1B068-02 (HEM) LASKER, SIGMUND E, NEW YORK MEDICAL COLLEGE, FIFTH AVENUE AT 106 STREET, NEW YORK, N Y. Chemistry and activity of homologous heparin fractions (rodents).

R01HL-1B070-04 (CVA) KADOWITZ, PHILIP J, TULANE UNIVERSITY, 1430 TULANE AVENUE, NEW ORLEANS, LA. Regulation of intrapulmonary airways and vessels (human, animals).

R01HL-1B077-04 (PHY) BAGBY, ROLAND M, UNIVERSITY OF TENNESSEE, DEPARTMENT OF ZOOLOGY, KNOXVILLE, TENN. Smooth muscle cell organization and Ca20 concentration control (chickens).

R01HL-1B080-03 (CVA) SHEPHERD, ALBERT P, JR, UNIVERSITY OF TEXAS, 7703 FLOYD CURL DRIVE, SAN ANTONIO, TEX. Extrinsic control of intestinal microcirculation (dogs).

R01HL-1B082-03 (HEM) HUTCHISON, VICTOR H, 730 VAN VLEET OVAL, NORMAN, OKLA. Erythrocyte phosphates and vertebrate gas transport (amphibians, reptiles).

R01HL-1B084-03 (SGYB) AKUTSU, TETSUZO, TEXAS HEART INSTITUTE, POST OFFICE BOX 20269, HOUSTON, TEX. Artificial heart and related problems (calves).

R01HL-1B085-03 (PTHA) GUTSTEIN, WILLIAM H, NEW YORK MEDICAL COLLEGE, BASIC SCIENCE BUILDING, VALHALLA, N Y. Neural factors in atherogenesis (squirrel monkeys).

R01HL-1B087-03 (CVB) WILDENTHAL, C KERN, UNIVERSITY OF TEXAS, 5323 HARRY HINES BLVD, DALLAS, TEX. Development and regression of cardiac hypertrophy (rats, rabbits).

R01HL-1B089-04 (PC) SCHULZ, HORST H, CITY COLLEGE - C U N Y, COVENT AVENUE & 138TH STREET, NEW YORK, N Y. Fatty acid metabolism in heart and its regulation (swine, rats).

R01HL-1B094-04 (MET) NESS, GENE C, UNIVERSITY OF SOUTH FLORIDA, BOX 7, TAMPA, FLA. Regulation of cholesterol biosynthesis (rats).

R01HL-1B095-04 (BIO) STONE, RICHARD A, VETERANS ADMINISTRATION HOSP, 3350 LA JOLLA VILLAGE DRIVE, SAN DIEGO, CALIF. Human dopamine-beta-hydroxylase (also cattle).

R01HL-1B096-04 (SGYB) SWAN, KENNETH G, NEW JERSEY MEDICAL SCHOOL, 100 BERGEN STREET, NEWARK, N J. Vasoactive agents in splanchnic viscera (primates, dogs).

R01HL-1B097-04 (GMB) CONGER, JOHN D, UNIVERSITY OF COLORADO, MEDICINE DEPARTMENT, DENVER, COLO. Pathogenesis of acute renal failure (rats).

R01HL-1B102-02 (CVB) ULICK, STANLEY, VETERANS ADMINISTRATION HOSP, 130 WEST KINGSBRIDGE ROAD, BRONX, N Y. Role of the adrenal cortex in human hypertension.

R01HL-1B11B-04 (MCHA) MC MURRY, JOHN E, UNIVERSITY OF CALIFORNIA, THIMANN LABORATORY, SANTA CRUZ, CALIF. Total synthesis of cardiac aglycones.

R01HL-1B143-03 (SGYA) WALLACE, HERBERT W, UNIVERSITY OF PENNSYLVANIA, 19TH AND LOMBARD STREETS, PHILADELPHIA, PA. Surgery and pulmonary tissue alterations (dogs, rats, human).

R01HL-1B144-03 (COM) ARTHUR, R MARTIN, WASHINGTON UNIVERSITY, LINDELL & SKINKER, ST LOUIS, MO. Preprocessor system for cardiograms (human).

R01HL-1B145-03 (CVA) BANCHERO, NATALIO, UNIVERSITY OF COLORADO, 4200 EAST NINTH AVENUE, DENVER, COLO. Oxygen transport mechanisms in hypoxia (dogs, rats, rabbits).

R01HL-1B14B-04 (PHRA) PERLMAN, ROBERT L, HARVARD MEDICAL SCHOOL, 25 SHATTUCK STREET, BOSTON, MASS. Adrenal catecholamine secretion.

R01HL-1B152-03 (PTHA) LORIA, ROGER M, VIRGINIA COMMONWEALTH UNIV, 1200 EAST BROAD STREET, RICHMOND, VA. Vascular injury and atherosclerosis (mice, coxsackievirus).

R01HL-1B156-02 (CVA) CHANDRAN, KRISHNAN B, TULANE UNIVERSITY, 1430 TULANE AVENUE, NEW ORLEANS, LA. Hemodynamics in curved arteries.

R01HL-1B157-04 (PTHA) DE DUVE, CHRISTIAN R, ROCKEFELLER UNIVERSITY, EAST 66TH STREET & YORK AVE, NEW YORK, N Y. Subcellular events in atherosclerosis (human, rabbits, calves).

R01HL-1B163-04 (TOX) GOLDSTEIN, BERNARD D, NEW YORK UNIVERSITY, 550 FIRST AVENUE, NEW YORK, N Y. Red cell membrane effects due to oxidizing agents.

R01HL-1B175-03 (EDC) SLOME, CECIL, UNIVERSITY OF NORTH CAROLINA, DEPT OF EPIDEMIOLOGY, CHAPEL HILL, N C. Drug taking for hypertension in a rural community.

R01HL-1B176-02 (SSS) TSAI, JIR-SHIONG, NEW YORK UNIVERSITY, 550 FIRST AVENUE, NEW YORK, N Y. Effect of thyroid hormone on cultured cardiac cells (rats).

R01HL-1B179-03 (BIO) SCHLISELFELD, LOUIS H, UNIVERSITY OF ILLINOIS, 1853 W POLK STREET, CHICAGO, ILL. Heart, platelet, and muscle myosins and actomyosins (cattle).

R01HL-1B1B1-04 (PC) SNYDER, FRED L, OAK RIDGE ASSOCIATED UNIVS, P O BOX 117, OAK RIDGE, TENN. Surfactant metabolism--Alveolar cells and lung disease (mice, rabbits).

R01HL-1B1B5-04 (GMB) BANERJEE, SHAILESH P, UNIVERSITY OF ROCHESTER, 601 ELMWOOD AVENUE, ROCHESTER, N Y. Cardiac glycosides and diuretics--Role of Na0 pump (dogs).

R01HL-1B1B6-04 (IMB) BENNETT, MICHAEL, BOSTON UNIVERSITY, 80 E CONCORD STREET, BOSTON, MASS. Cardiac allografts in autologous radiation chimeras (rats, dogs).

R01HL-1B190-03 (CVB) HODGES, MORRISON, HENNEPIN CNTY MEDICAL CENTER, FIFTH AND PORTLAND SOUTH, MINNEAPOLIS, MINN. Myocardial blood flow in acute myocardial infarction (human, dogs).

R01HL-18191-04 (CVA) ALEXANDER, A V, COLORADO STATE UNIVERSITY, DEPT / PHYSIOLOGY & BIOPHYSICS, FORT COLLINS, COLO. Models of hypoxic pulmonary hypertension (cattle, minipigs)

R01HL-18199-03 (PHRA) ROSS, GORDON, UNIVERSITY OF CALIFORNIA, DEPARTMENT OF PHYSIOLOGY, LOS ANGELES, CALIF. Effects of ions on vascular reactivity

R01HL-18204-03 (CV8) EINZIG, STANLEY, UNIVERSITY OF MINNESOTA, 424 MILLARD HALL, MINNEAPOLIS, MINN Regional blood flow in viral myocarditis (turkeys).

R01HL-18206-04 (MET) NEELY, JAMES R, MILTON S HERSHEY MEDICAL CTR, DEPARTMENT OF PHYSIOLOGY, HERSHEY, PA. Regulation of metabolism in oxygen deficient hearts (rats).

P01HL-18208-04 (HEP) LA CELLE, PAUL L, UNIVERSITY OF ROCHESTER, SCHOOL OF MED & DENTISTRY, ROCHESTER, N Y. Center for the study of blood cell rheology

P01HL-18208-04 0001 (HEP) LICHTMAN, MARSHALL A. Center for the study of blood cell rheology--Physiological basis of reversible erythrocyte shape change (human, firefly).

P01HL-18208-04 0002 (HEP) THOMPSON, BRIAN J. Center for the study of blood cell rheology--Holography of RBC shape (human).

P01HL-18208-04 0003 (HEP) KIRKPATRICK, FRANCIS H. Center for the study of blood cell rheology--Bone marrow microcirculation (rats, mice).

P01HL-18208-04 0004 (HEP) LICHTMAN, MARSHALL A. Center for the study of blood cell rheology--Splenic microcirculation (rats, mice).

P01HL-18208-04 0005 (HEP) LACELLE, PAUL L. Center for the study of blood cell rheology--RBC deformability and capillary flow interrelations (human, mice).

P01HL-18208-04 0006 (HEP) WEYMANN, HELMUT O. Center for the study of blood cell rheology--Analysis of flow in arterioles and capillaries (human).

P01HL-18208-04 0007 (HEP) KIRKPATRICK, FRANCES H. Center for the study of blood cell rheology--RBC membrane protein (human).

R01HL-18219-04 (MET) SIMONI, ROBERT O, STANFORD UNIVERSITY, BIOLOGICAL SCIENCES DEPT, STANFORD, CALIF. Regulation of cholesterol metabolism (rats).

R01HL-18226-04 (88C8) ASAKURA, TOSHIO, CHILDREN'S HOSPITAL, 34TH ST AND CIVIC CENTER BLVD , PHILADELPHIA, PA. Mechanism of oxygen supply to tissue (human, animals).

R01HL-18235-03 (EDC) CADY, LEE D, CARDIOPULMONARY LABORATORY, 222 N GRAND AVENUE, LOS ANGELES, CALIF. Cardiovascular fitness and other risk factors (human).

R01HL-18239-03 (NTN) MATHIAS, MELVIN M, COLORADO STATE UNIVERSITY, FOOD SCIENCE & NUTR DEPT, FT COLLINS, COLO. Dietary fat composition and prostaglandin synthesis (rats).

R01HL-18245-03 (SSS) KOEHLER, KARL A, UNIVERSITY OF NORTH CAROLINA, DEPARTMENT OF PATHOLOGY, CHAPEL HILL, N C. Transition state analog inhibitors of thrombin (human, cattle).

R01HL-18249-04 (HEM) SCHICK, PAUL K, MEDICAL COLL OF PENNSYLVANIA, 3300 HENRY AVENUE, PHILADELPHIA, PA. Isolation and identification of platelet membrane (human).

R01HL-18253-03 (MCHB) SCHEUER, PAUL J, UNIVERSITY OF HAWAII, 2545 THE MALL, HONOLULU, HAWAII. Structure of the palytoxins.

R01HL-18255-04 (8BCB) FEIGENSON, GERALD W, CORNELL UNIVERSITY, 254 CLARK HALL, ITHACA, N Y. Lipid-protein interactions and calcium transport (models).

R01HL-18256-01 (BBCB) LATIMER, PAUL H, AUBURN UNIVERSITY, DEPARTMENT OF PHYSICS, AUBURN, ALA. Optical properties of platelets and erythrocytes (rabbits, dogs, human).

R01HL-18258-04 (MET) MORGAN, HOWARD E, MILTON S HERSHEY MED CENTER, DEPT OF PHY, 500 UNIV DRIVE, HERSHEY, PA. Regulation of protein degradation in heart (rats).

R01HL-18259-03 (PHRA) PRINTZ, MORTON P, UNIV OF CALIFORNIA, SAN DIEGO, DEPARTMENT OF MEDICINE, LA JOLLA, CALIF. Controlled intratissue release of prostaglandins.

R01HL-18260-04 (PHRA) MURAD, FERID, UNIVERSITY OF VIRGINIA, DEPT OF INTERNAL MEDICINE, CHARLOTTESVILLE, VA. Cyclic nucleotide metabolism in lung tissue (cattle).

R01HL-18272-03 (88CA) DOWBEN, ROBERT M, UNIVERSITY OF TEXAS, 5323 HARRY HINES BOULEVARD, DALLAS, TEX. Heart adenyl cyclase complex (beef heart).

R01HL-18280-03 (CV8) DODSON, JAMES G, JR, UNIVERSITY OF MASSACHUSETTS, 55 LAKE AVENUE, NORTH, WORCESTER, MASS. Regulation of cardiac contractility and metabolism (rats).

R01HL-18284-04 (HEM) SEAMAN, GEOFFREY V, UNIVERSITY OF OREGON, 3181 S W SAM JACKSON PARK ROAD, PORTLAND, OREG. Aging erythrocytes--Bio-recognition and elimination (monkeys).

R01HL-18288-04 (SGYA) LEVITSKY, SIDNEY, UNIVERSITY OF ILLINOIS, POST OFFICE BOX 6998, CHICAGO, ILL. Intraoperative protection of the myocardium (dogs, rats).

R01HL-18292-04 (PHY) PITTMAN, ROLAND N, MEDICAL COLLEGE OF VIRGINIA, BOX 608, MCV STATION, RICHMOND, VA. Vasodilation and microvascular oxygen delivery (dog, hamster).

R01HL-18304-03 (88C8) RIESKE, JOHN S, 214 HAMILTON HALL, 1645 NEIL AVENUE, COLUMBUS, OHIO. FT-infrared spectroscopy of heart muscle energetics (cattle).

R01HL-18308-03 (CVA) PARK, SUNG S, ALBERT EINSTEIN COLLEGE OF MED, 1300 MORRIS PARK AVENUE, BRONX, N Y. Comprehensive studies of mucociliary transport (dogs).

R01HL-18309-04 (88C8) MOFFAT, JOHN K, CORNELL UNIVERSITY, 252A CLARK HALL, ITHACA, N Y. Oxygen transport--Hemoglobins with modified hemes (horse).

P50HL-18318-03 (SRC) CHOBANIAN, ARAM V, BOSTON UNIVERSITY, 80 E CONCORD STREET, BOSTON, MASS. Pathogenesis and complications of hypertension.

P50HL-18318-03 0001 (SRC) CHOBANIAN, ARAM V. Pathogenesis and complications of hypertension--Core clinical program.

P50HL-18318-03 0002 (SRC) KRAMSCH, DIETER M. Pathogenesis and complications of hypertension--Core experimental animal facility (rats, rabbits).

P50HL-18318-03 0003 (SRC) GAVRAS, HARALAMBOS P. Pathogenesis and complications of hypertension--Core biochemical laboratory.

P50HL-18318-03 0004 (SRC) MELBY, JAMES C. Pathogenesis and complications of hypertension--Steroid and renin profiles in hypertension (rats, human).

P50HL-18318-03 0007 (SRC) ALEXANDER, EDWARD A. Pathogenesis and complications of hypertension--Humoral factors and renal function in experimental hypertension (rats)

P50HL-18318-03 0009 (SRC) MELBY, JAMES C. Pathogenesis and complications of hypertension--The mineralocorticoid hypertensive syndrome in man

P50HL-18318-03 0010 (SRC) HOOD, WILLIAM B, JR. Pathogenesis and complications of hypertension--Hemodynamics in mineralocorticoid and low renin hypertension (human)

P50HL-18318-03 0011 (SRC) CHOBANIAN, ARAM V. Pathogenesis and complications of hypertension--Adrenergic function--Renin and mineralocorticoid activity (human).

P50HL-18318-03 0012 (SRC) JENKINS, C DAVID. Pathogenesis and complications of hypertension--Behavioral factors in hypertension (human)

P50HL-18318-03 0013 (SRC) LEVINSKY, NORMAN G. Pathogenesis and complications of hypertension--Humoral factors and renal function in human hypertension.

P50HL-18318-03 0014 (SRC) CHOBANIAN, ARAM V. Pathogenesis and complications of hypertension--Arterial metabolism and atherogenesis (rat, rabbit).

P50HL-18318-03 0015 (SRC) BRECHER, PETER I. Pathogenesis and complications of hypertension--Cultured smooth muscle cells and microvessel metabolism (mammals).

P50HL-18318-03 0018 (SRC) HOOD, WILLIAM B, JR. Pathogenesis and complications of hypertension--Plasma renin activity in chronic ischemic heart disease (human).

P50HL-18318-03 0019 (SRC) GAVRAS, HARALAMBOS. Pathogenesis and complications of hypertension--Renin-angiotensin system in blood pressure regulation (human, rat, dog).

R01HL-18321-03 (SGY8) GARDNER, RICHARD A, WASHINGTON UNIVERSITY, BOX 1185, ST LOUIS, MO. Fluid shear or magnetic alignment of blood components (human).

P50HL-18323-04 (SRC) LARAGH, JOHN H, CORNELL UNIVERSITY MEDICAL SCH, 1300 YORK AVENUE, NEW YORK, N Y. SCOR hypertension center.

P50HL-18323-04 0011 (SRC) LARAGH, JOHN H. SCOR hypertension center--Endocrine profiling on a selected normal population (human).

P50HL-18323-04 0012 (SRC) LARAGH, JOHN H. SCOR hypertension center--Renin as a risk factor (human).

P50HL-18323-04 0033 (SRC) SEALEY, JEAN E. SCOR hypertension center--Core laboratory--Renin, aldosterone and bradykinin methodology.

P50HL-18323-04 0034 (SRC) LARAGH, JOHN H. SCOR hypertension center--Core--Data management.

P50HL-18323-04 0035 (SRC) ALDERMAN, MICHAEL H. SCOR hypertension center--Control of high blood pressure at the work site.

P50HL-18323-04 0037 (SRC) NEW, MARIA I. SCOR hypertension center--Adrenocortical factors in childhood hypertension.

P50HL-18323-04 0038 (SRC) ULICK, STANLEY. SCOR hypertension center--Unknown adrenocortical mechanisms in hypertension (human).

P50HL-18323-04 0041 (SRC) LEVITT, MORTON. SCOR hypertension center--Measurement of sympathetic response in hypertensive patients.

P50HL-18323-04 0042 (SRC) CHIEN, SHU. SCOR hypertension center--Blood viscosity and blood volume in hypertensive disease (human, dog).

P50HL-18323-04 0043 (SRC) WEBER, MICHAEL A. SCOR hypertension center--Pharmacology--Renin-aldosterone mechanisms in essential hypertension (human).

P50HL-18323-04 0044 (SRC) CASE, DAVID B. SCOR hypertension center--Angiotensin blockade to identify angiotensin II factor in hypertension (human).

P50HL-18323-04 0045 (SRC) SEALEY, JEAN E. SCOR hypertension center--Laboratory programs--Prorenin (human).

P50HL-18323-04 0046 (SRC) NIARCHOS, ANDREAS D. SCOR hypertension center--Coronary artery bypass surgery--Associated hypertension (human).

P50HL-18323-04 0047 (SRC) CASE, DAVID B. SCOR hypertension center--Transcendental meditation and self-hypnosis--Hypertension treatment (human).

R01HL-18328-03 (CVA) COHEN, JULES, UNIV ROCHESTER MEDICAL CENTER, 601 ELMWOOD AVENUE, ROCHESTER, N Y. Hemoglobin function and tissue oxygenation (human, dogs).

R01HL-18333-05 (HEM) WESSLER, STANFORD, NEW YORK UNIVERSITY, 550 FIRST AVENUE, NEW YORK, N Y. Thrombogenesis and hemostatic balance (rabbits, human).

R01HL-18338-04 (CVA) BING, OSCAR H, BETH ISRAEL HOSPITAL, 330 BROOKLINE AVENUE, BOSTON, MASS. Computer feedback study of cardiac muscle mechanics (rats).

R01HL-18340-04 (PTHA) BARAJAS, LUCIANO, HARBOR GENERAL HOSPITAL, 1000 W CARSON STREET, BOX 22, TORRANCE, CALIF. Electron microscopy of the juxtaglomerular apparatus (rats).

R01HL-18351-03 (PHY) NATTIE, EUGENE E, DARTMOUTH MEDICAL SCHOOL, DEPT OF PHYSIOLOGY, HANOVER, N H. Brain metabolism, acid-base balance, and respiration.

R01HL-18371-03 (CVA) JURATSCH, CRAIG E, HARBOR GENERAL HOSPITAL, 1000 WEST CARSON STREET, TORRANCE, CALIF. Pulmonary hypertension and ventilation pathophysiology (dogs).

R01HL-18398-04 (CV8) BOINEAU, JOHN P, VETERANS ADMINISTRATION HOSP, CARDIOLOGY RESEARCH (151), AUGUSTA, GA. Mechanisms of delayed and asymetric ventricular conduction (human, dogs).

R25HL-18406-03 (HBP) ROSENSTOCK, IRWIN M, UNIVERSITY OF MICHIGAN, 1420 WASHINGTON HEIGHTS, ANN ARBOR, MICH. Adherence to hypertensive medical regimens (human).

R25HL-18414-03 (HBP) EARP, JO ANNE, UNIVERSITY OF NORTH CAROLINA, SCHOOL OF PUBLIC HEALTH, CHAPEL HILL, N C. Hypertension--Family strategies for patient adherence.

R25HL-18418-03 (HBP) CAPLAN, ROBERT D, UNIVERSITY OF MICHIGAN, INST FOR SOCIAL RESEARCH, ANN ARBOR, MICH. Role of a supporting partner in adherence (human).

R25HL-18424-03 (HBP) CHADWICK, JOSEPH H, STANFORD RESEARCH INSTITUTE, 333 RAVENSWOOD AVENUE, MENLO PARK, CALIF. Blood pressure education in an industrial setting (human).

R01HL-18426-04 (CV8) NAVAR, LUIS G, UNIVERSITY OF ALABAMA, UNIVERSITY STATION, BIRMINGHAM, ALA. Regulation of renal hemodynamics (dogs).

R01HL-18435-03 (HEM) SEEGERS, WALTER H, WAYNE STATE UNIVERSITY, 540 EAST CANFIELD, DETROIT, MICH. Properties of thrombin and Ac-globulin (human, animals).

R01HL-18441-03 (88C8) HOEVE, CORNELIS A, TEXAS A & M UNIVERSITY, DEPARTMENT OF CHEMISTRY, COLLEGE STATION, TEX. Guidelines for polymers acting as elastin substitutes.

R01HL-184S4-03 (AFY) JAMES, FREDERICK W, CHILDREN'S HOSPITAL, ELLAND & BETHESOA AVENUES, CINCINNATI, OHIO. Maximal exercise testing in hyperlipidemic children.

R01HL-184S6-03 (EDC) FIXLER, DAVID E, UNIVERSITY OF TEXAS, 5323 HARRY HINES BLVD, OALLAS, TEX. Cardiovascular follow-up of hypertensive adolescents.

R01HL-18460-01 (SGY8) WAKA8AYASHI, AKIO, UNIVERSITY DF CALIFORNIA, DEPARTMENT OF, IRVINE, CALIF. Effects of prolonged hypoperfusion on the myocardium (rabbits).

R01HL-18467-03 (CVA) COFFMAN, JAY D, UNIVERSITY HOSPITAL, 75 EAST NEWTON STREET, BOSTON, MASS. Fingertip blood flow in normals and Raynaud's disease (human).

R01HL-18468-03 (CV8) GREENFIELD, JOSEPH C, JR, OUKE UNIVERSITY, POST OFFICE BDX 3246, DURHAM, N C. The distribution of flow in the myocardium (dog, pig).

R01HL-18473-04 (PTHA) HEPTINSTALL, RO8ERT H, JOHNS HOPKINS HOSPITAL, 601 NDRTH BRDADWAY, BALTIMORE, MD. Genesis of atherosclerotic lesions (human, mules).

R01HL-18489-03 (PHY) PREWITT, RU5SELL L, JR, UNIVERSITY DF TENNESSEE, 894 UNION AVENUE (NA 427., MEMPHIS, TENN. Hemodynamic interactions of vasoactive chemicals (rats).

R01HL-18492-03 (CV8) GOULD, KENNETH L, SEATTLE V A HOSPITAL, 4435 BEACON AVE, S, SEATTLE, WASH. Measurement of regional coronary flow reserve (human, dogs).

R01HL-18S02-03 (HEM) KOSOW, DAVID P, BLDDO RESEARCH LABORATORY, 9312 DLD GEORGETOWN ROAO, BETHESDA, MO. Enzymatic regulation of platelet function (human).

R01HL-18S07-03 (HEM) HATHAWAY, WILLIAM E, UNIVERSITY OF COLORADO, 4200 E NINTH AVENUE, OENVER, COLO. Clinical studies of Fletcher factor (human).

R01HL-18S16-03 (88C8) FREDERIKSEN, DIXIE W, VANOERBILT UNIVERSITY, OEPT OF BIOCHEMISTRY, NASHVILLE, TENN. Atherosclerosis and the arterial contractile proteins (pigs, rabbits).

R01HL-18517-03 (CV8) PRIOLA, DONALD V, UNIVERSITY OF NEW MEXICO, 915 STANFORO ORIVE N E, ALBUQUERQUE, N MEX. Intrinsic innervation of the heart (dogs).

R01HL-18519-03 (SGY8) ANDRADE, JOSEPH D, UNIVERSITY OF UTAH, INST FOR BIOMEOICAL ENGR, SALT LAKE CITY, UTAH. Albumin, endothelium and hemocompatibility (human, dog, cattle, rabbit).

R01HL-18S26-03 (ALY) NEW8ALL, HAROLD H, GOOO SAMARITAN HOSPITAL, 5601 LOCH RAVEN BLVD, BALTIMORE, MD. Kinins and the human lung.

R01HL-18S27-03 (AFY) GOLLNICK, PHILIP D, WASHINGTON STATE UNIVERSITY, DEPT OF PHYS EOUC FOR MEN, PULLMAN, WASH. Subcellular response of heart to functional overload (hamsters, rats).

R01HL-18S33-03 (88C8) TOONEY, NANCY M, POLYTECHNIC INST OF NEW YORK, 333 JAY STREET, BROOKLYN, N Y. Microcrystalline and crystalline fibrinogen (cattle, bacteria).

R01HL-1853S-03 (VR) D'ALESSIO, DONN J, STATE LABORATORY OF HYGIENE, 465 HENRY MALL, MADISON, WIS. Epidemiology and course of viral myopericarditis (human).

R01HL-18537-04 (CVA) CO88, FREDERICK R, VETERANS ADMINISTRATION HOSP, 5D8 FULTON STREET, OURHAM, N C. Regional blood flow after acute myocardial injury (dogs).

R01HL-18S38-03 (CV8) 8AILEY, JOHN C, INOIANA UNIVERSITY, 11D0 WEST MICHIGAN STREET, INDIANAPOLIS, IND. The role of electrotonus in His-Purkinje function (dog).

R01HL-18551-03 (HEM) KIRKPATRICK, FRANCIS H, JR, UNIVERSITY OF ROCHESTER, OEPT OF RAD BIOL & BIOPHYS, ROCHESTER, N Y. Spectrin, actin, lipid and red cell membrane structure.

R01HL-18S53-03 (MET) GRUENSTEIN, ERIC I, UNIVERSITY OF CINCINNATI, 231 BETHESDA AVENUE, CINCINNATI, OHIO. Membrane defects in familial hypercholesteremia (human).

R01HL-18S54-03 (8IO) SCHAFFER, STEPHEN W, LEHIGH UNIVERSITY, DEPARTMENT OF CHEMISTRY, BETHLEHEM, PA. Taurine metabolism in mammalian heart (rodents, cattle, swine).

R01HL-18560-03 (AFY) SANDERS, TOMMY M, UNIV OF CALIFORNIA, SAN OIEGO, M-012, LA JOLLA, CALIF. Cardiovascular adaptation to stress (miniature swine).

R01HL-18S61-03 (P8C) WILKINSON, J SIDNEY, UNIVERSITY OF MISSISSIPPI, 2500 NORTH STATE STREET, JACKSON, MISS. Radioimmunoassay of angiotensinogen (human).

R01HL-18567-03 (8IO) DE VELLIS, JEAN S, LAB OF NUCLEAR MEO ANO RAD BIO, 9DD, LOS ANGELES, CALIF. A routine diagnostic test for minimal heart damage (human, rat).

P01HL-18574-03 (HEP) LINDGREN, FRANK T, UNIVERSITY OF CALIFORNIA, OONNER LABORATDRY, BERKELEY, CALIF. Lipoprotein methodology and biomedical applications.

P01HL-18574-03 0001 (HEP) LINDGREN, FRANK T. Lipoprotein methodology and biomedical applications--Ultracentrifugal and electrophoretic lipoprotein methodology--Applications.

P01HL-18574-03 0004 (HEP) FORTE, GERTRUDE M. Lipoprotein methodology and biomedical applications--Fine structure and metabolism of lipoproteins--EM studies (guinea pigs).

P01HL-18574-03 000S (HEP) NICHOLS, ALEX V. Lipoprotein methodology and biomedical applications--Structure and function of lipoproteins.

P01HL-18574-03 0006 (HEP) KRAUSS, RONALD M. Lipoprotein methodology and biomedical applications--Lipoprotein transformation, lipolytic enzymes, diet and lipid lowering agents.

P01HL-18S7S-03 (HEP) 8OHR, DAVID F, UNIVERSITY OF MICHIGAN, 7710 MEOICAL SCIENCE II, ANN ARBOR, MICH. Mechanisms of vascular changes in hypertension.

P01HL-18575-03 0001 (HEP) 8OHR, DAVID F. Mechanisms of vascular changes in hypertension--Arteries and resistance vessels in hypertension (pigs, rats).

P01HL-1857S-03 0002 (HEP) GREKIN, ROGER J. Mechanisms of vascular changes in hypertension--Endocrines, electrolytes, and hemodynamics in hypertension (pigs).

P01HL-18S7S-03 000S (HEP) MALVIN, RICHARD L. Mechanisms of vascular changes in hypertension--Renin synthesis in normotensive and hypertensive pigs (also rats, dogs).

P01HL-18S7S-03 0006 (HEP) RANDALL, OTELIO S. Mechanisms of vascular changes in hypertension--Evaluation of arterial compliance in hypertension (human, pigs).

P01HL-18575-03 0007 (HEP) JOKELAINER, PENTTI T. Mechanisms of vascular changes in hypertension--Microscopy of hypertensive arterial lesions (rats).

P01HL-18S7S-03 0009 (HEP) 8OHR, DAVID F. Mechanisms of vascular changes in hypertension--Administrative core.

P01HL-18575-03 0010 (HEP) 8OHR, DAVID F. Mechanisms of vascular changes in hypertension--Hypertensive pig Core.

P01HL-18S75-03 0011 (HEP) GREKIN, ROGER J. Mechanisms of vascular changes in hypertension--Chemistry laboratory core facility.

P01HL-18575-03 0012 (HEP) JOKELAINER, PENTTI T. Mechanisms of vascular changes in hypertension--Anatomy core facility.

P01HL-18S7S-03 0013 (HEP) SCHORK, MICHAEL ANTHONY. Mechanisms of vascular changes in hypertension--Biostatistical core.

P01HL-18576-03 (HEP) DOOLITTLE, RUSSELL F, UNIV OF CALIFORNIA, SAN DIEGO, DEPARTMENT OF CHEMISTRY, LA JOLLA, CALIF. Thrombosis research program project.

P01HL-18576-03 0001 (HEP) BERNSTEIN, EUGENE F. Thrombosis research program project--Platelet damage from physical forces and artificial surfaces (human).

P01HL-18576-03 0002 (HEP) DOOLITTLE, RUSSELL F. Thrombosis research program project--Molecular basis of fibrin formation (human, cattle, lamprey).

P01HL-18S76-03 0003 (HEP) GOODMAN, MURRAY. Thrombosis research program project--Biocompatible materials.

P01HL-18576-03 0004 (HEP) HARPER, ELVIN. Thrombosis research program project--Mechanism and control of collagen-platelet interaction.

P01HL-18S76-03 0005 (HEP) HOUGIE, CECIL. Thrombosis research program project--Molecular basis of von Willebrand's disease and hemophilia (human, cattle).

P01HL-18576-03 0007 (HEP) RAPAPORT, SAMUEL I. Thrombosis research program project--Relationships between coagulability and thrombosis (human, animals).

P01HL-18576-03 0009 (HEP) HOUGIE, CECIL. Thrombosis research program project--Biology of factor VII (human, rabbits, cattle).

P01HL-18S76-03 0010 (HEP) 8ERNSTEIN, EUGENE F. Thrombosis research program project--Evaluation of non-thrombogenic materials (cattle).

P01HL-18S76-03 0011 (HEP) HARPER, ELVIN. Thrombosis research program project--Proteolysis and platelet function (human, cattle, rabbits).

P01HL-18576-03 0012 (HEP) DOOLITTLE, RU5SELL F. Thrombosis research program project--Synthetic anticoagulant and thrombolytic agents (dogs).

P01HL-18576-03 0013 (HEP) MOSER, KENNETH M. Thrombosis research program project--Early warning and monitoring test systems in thrombotic disease (human).

P01HL-18S76-03 0014 (HEP) WOHL, HER8ERT. Thrombosis research program project--Immunology core.

P01HL-18576-03 001S (HEP) DOOLITTLE, RUSSELL F. Thrombosis research program project--Major equipment core.

P01HL-18S76-03 0016 (HEP) DOOLITTLE, RUSSELL F. Thrombosis research program project--Radiochemistry core.

P01HL-18S77-03 (HEP) SCANU, ANGELO M, 950 EAST 59TH STREET, CHICAGO, ILL. Lipoproteins--Cell surface interactions.

P01HL-18S77-03 0001 (HEP) SCANU, ANGELO M. Lipoproteins--Cell surface interactions--Structural studies of serum lipoproteins in man and dogs.

P01HL-18S77-03 0003 (HEP) KEZDY, FERENCZ J. Lipoproteins--Cell surface interactions--Mechanism of lipid exchange in lipoproteins and cell membranes.

P01HL-18S77-03 0004 (HEP) HEINRIKSON, RO8ERT L. Lipoproteins--Cell surface interactions--Analysis and chemical modification of proteins in lipid transport (human, dogs).

P01HL-18S77-03 000S (HEP) KAISER, EMIL T. Lipoproteins--Cell surface interactions--Chemical synthesis of apolipoproteins and apoliprotein fragments.

P01HL-18577-03 0008 (HEP) SCANU, ANGELO M. Lipoproteins--Cell surface interactions--Core laboratory 1.

P01HL-18577-03 0011 (HEP) HEINRIKSON, RO8ERT L. Lipoproteins--Cell surface interactions--Core laboratory 4.

R01HL-18S79-03 (CV8) NASJLETTI, AL8ERTO, MEOICAL COLLEGE OF WISCONSIN, 561 N 15TH STREET, MILWAUKEE, WIS. Vasoactive hormones and blood pressure regulation (dogs, rats, rabbits).

R01HL-18S84-03 (HEM) HELLUMS, JES5E D, RICE UNIVERSITY, POST OFFICE BOX 1892, HOUSTON, TEX. Effects of physical forces on platelets (human).

R01HL-18586-03 (HEM) DEYKIN, DANIEL, VETERANS AOMINISTRATION HOSP, 15D S HUNTINGTON AVENUE, BOSTON, MASS. Role of platelet lipids in hemostasis and thrombosis (human).

R01HL-18589-03 (D8R) WILLIAM5, REDFORD 8, JR, OUKE UNIVERSITY, POST OFFICE BOX 3416, OURHAM, N C. Psychosocial factors and outcome in coronary disease (human).

R01HL-18590-03 (NEUA) LIN, SHU-REN, UNIVERSITY OF ROCHESTER, 260 CRITTENDEN BOULEVARO, ROCHESTER, N Y. Cerebral blood flow after cardiac arrest (dogs, monkeys).

R01HL-18S93-03 (8IO) PINNELL, SHELDON R, DUKE UNIVERSITY, BOX 3135 HOSPITAL, OURHAM, N C. Characterization of heart valve collagen (human, pig).

R01HL-18598-03 (PHRA) OKITA, GEORGE T, NORTHWESTERN UNIVERSITY, 3D3 E CHICAGO AVENUE, CHICAGO, ILL. Role of Na, K-ATPase inhibition on digitalis action.

R01HL-18S99-02 (PHRA) SOMANI, PITAM8AR, UNIVERSITY OF MIAMI, POST OFFICE BOX 520875, MIAMI, FLA. Cardiovascular pharmacology of ionophores (dogs).

R01HL-18601-01 (PHRA) WAKADE, ARUN R, S U N Y DOWNSTATE MEDICAL CTR, 450 CLARKSON AVENUE, BROOKLYN, N Y. Regulation of neurotransmitter release by adenosine (rats).

R01HL-18606-04 (CVA) EFFROS, RICHARD M, HARBOR GENERAL HOSPITAL, 10D0 WEST CARSON STREET, TORRANCE, CALIF. Pathogenesis and measurement of pulmonary edema (human, rabbits, dogs).

R01HL-18607-03 (PHRA) GERTNER, SHELDON 8, COLLEGE OF MEO & OENTISTRY, 100 BERGEN STREET, NEWARK, N J. Metabolic and drug studies on experimental fat embolism (mice).

R01HL-18610-03 (CV8) SU88IAH, RAVI M, MAYO FOUNDATION, 200 FIRST STREET SW, ROCHESTER, MINN. Early intervention of age related arterial changes (pigeon).

R01HL-18612-03 (BBCB) GREASER, MARION L, UNIVERISITY OF WISCONSIN, 1805 LINOEN ORIVE, MAOISDN, WIS. Thin filament contiol of heart contraction (cattle).

R01HL-18618-04 (HEM) WUEPPER, KIRK O, UNIVERSITY OF OREGON, 3181 S W SAM JACKSON PARK RO, PDRTLAND, OREG Purification and function of human HMW kininogen

R01HL-18619-03 (BBCA) FEENEY, ROBERT E, UNIVERSITY OF CALIFORNIA, 345D CHEMISTRY ADDITION, DAVIS, CALIF. Transferrin iron binding and transport properties (chicken, rabbit, human)

R01HL-18623-12 (BBCB) SMALL, OONALD M, BDSTON UNIV SCHOOL DF MEOICINE, 8D EAST CONCORD ST, BOSTDN, MASS. Physical chemistry of biologically active lipids (bacteria, plant, cattle, human).

R01HL-18624-03 (CVB) WONG, PATRICK Y, ALBANY MEOICAL COLLEGE, 47 NEW SCOTLANO AVENUE, ALBANY, N Y. Study of kinins in hypertension and other diseases (human).

R01HL-18625-03 (PC) EISENSTEIN, REUBEN, NORTHWESTERN UNIVERSITY, 3D3 EAST CHICAGO AVENUE, CHICAGO, ILL. Organization of arterial ground substance (cattle).

R01HL-18629-04 (CVB) TOMANEK, ROBERT J, UNIVERSITY OF IDWA, DEPARTMENT OF ANATDMY, IOWA CITY, IOWA. Influence of aging and hypertension on the myocardium (rats).

R01HL-18630-03 (CVA) NEWELL, JONATHAN C, RENSSELAER POLYTECHNIC INST, BIOMEDICAL ENGINEERING CTR, TROY, N Y. Pulmonary hemodynamics in atelectasis and hypoxia (dogs).

R01HL-18631-03 (PTHA) MC CALLISTER, LAWRENCE P, PENNSYLVANIA STATE UNIVERSITY, 5D0 UNIVERSITY ORIVE, HERSHEY, PA. Ultrastructural correlates of myocardial ischemia (rats, swine).

R01HL-18632-02 (SSS) HIGGINS, MILLICENT W, UNIVERSITY OF MICHIGAN, 109 DBSERVATORY STREET, ANN ARBOR, MICH. Epidemiologic study of chronic lung disease.

R01HL-18634-03 (BBCA) VINOGRAOOV, SERGE N, WAYNE STATE UNIVERSITY, 54D E CANFIELD, DETROIT, MICH. Ouarternary structure of erythro and chlorocruorins (invertebrates).

R01HL-18636-02 (NTN) FELDMAN, ELAINE B, MEOICAL CDLLEGE OF GEORGIA, AUGUSTA, GA. Fatty acids and cholesterol transport (rats).

R01HL-18639-03 (SGYB) NOSE, YUKIHIKO, CLEVELAND CLINIC FOUNOATIDN, 9500 EUCLID AVENUE, CLEVELAND, OHID. Human anatomy for cardiac prostheses (human).

R01HL-18644-03 (SGYA) SAUVAGE, LESTER R, PRDVIDENCE MEOICAL CENTER, 528 - 18TH AVENUE, SEATTLE, WASH. Prosthesis for aortocoronary bypass (dogs, baboons).

P01HL-18645-03 (HEP) ROSS, RUSSELL, UNIVERSITY OF WASHINGTDN, DEPARTMENT OF PATHOLOGY, SEATTLE, WASH. Biology of the artery wall and atherosclerosis.

P01HL-18645-03 0001 (HEP) ROSS, RUSSELL. Biology of the artery wall and atherosclerosis--Primate arterial smooth muscle and atherosclerosis.

P01HL-18645-03 0003 (HEP) BORNSTEIN, PAUL. Biology of the artery wall and atherosclerosis--Synthesis of connective tissue proteins by smooth muscle cells (human, monkeys).

P01HL-18645-03 0004 (HEP) PARKER, FRANK. Biology of the artery wall and atherosclerosis--Human arterial smooth muscle cell and lipoprotein interaction.

P01HL-18645-03 0005 (HEP) SCHWARTZ, STEPHEN M. Biology of the artery wall and atherosclerosis--Effects of atherosclerosis risk factors on endothelium of the primate.

P01HL-18645-03 0006 (HEP) HARKER, LAURENCE A. Biology of the artery wall and atherosclerosis--The platelet and atherosclerosis (monkeys, baboons).

P01HL-18645-03 0007 (HEP) HAZZARD, WILLIAM R. Biology of the artery wall and atherosclerosis--Lipoprotein metabolism in subhuman primates.

P01HL-18646-03 (HEP) RUSSELL, PAUL S, MASSACHUSETTS GENERAL HOSPITAL, 32 FRUIT STREET, BOSTON, MASS. Studies basic to heart transplantation.

P01HL-18646-03 0001 (HEP) COSIMI, A BENEDICT. Studies basic to heart transplantation--Individualized regulation of immunosuppression (dogs, rats).

P01HL-18646-03 0002 (HEP) COSIMI, A BENEDICT. Studies basic to heart transplantation--Detection of rejection (dogs).

P01HL-18646-03 0003 (HEP) COSIMI, A BENEOICT. Studies basic to heart transplantation--Host responses to xenografts (rodents, rabbits).

P01HL-18646-03 0004 (HEP) RUSSELL, PAUL S. Studies basic to heart transplantation--Presensitization--Oetection, incidence and clinical significance.

P01HL-18646-03 0006 (HEP) RUSSELL, PAUL S. Studies basic to heart transplantation--Reduction or elimination of existing presensitization (human, animals).

P01HL-18646-03 0008 (HEP) DAGGETT, WILLARO M. Studies basic to heart transplantation--Immunophysiology and early detection of rejection (dogs).

P01HL-18646-03 0009 (HEP) MCCLUSKEY, ROBERT. Studies basic to heart transplantation--Pathologic aspects of cardiac allograft rejection (sheep, dogs).

P01HL-18646-03 0010 (HEP) AUSTEN, W GERALO. Studies basic to heart transplantation--Oevelopment and study of a heart preservation chamber (dogs, sheep).

R01HL-18647-03 (CVA) ACOSTA, OANIEL, JR, UNIVERSITY OF TEXAS, COLLEGE OF PHARMACY, AUSTIN, TEX. Ischemic myocardial injury in cultured heart cells (rats).

R01HL-18650-03 (HEM) CHESNEY, CAROLYN M, UNIVERSITY OF TENNESSEE, 8D0 MADISDN AVENUE, MEMPHIS, TENN. Platelet collagen interaction (human).

R01HL-18657-03 (PHRA) POWELL, WILLIAM J, JR, MASSACHUSETTS GENERAL HOSPITAL, FRUIT STREET, BOSTDN, MASS. Pharmacologic studies on neurogenic digitalis effects (human, cats, dogs).

R01HL-18660-03 (BBCA) HUESTIS, WRAY H, STANFORD UNIVERSITY, OEPARTMENT OF CHEMISTRY, STANFORD, CALIF. Neurotransmitter receptors in human erythrocytes.

R01HL-18672-03 (HEM) MC INTIRE, LARRY V, RICE UNIVERSITY, POST OFFICE BOX 1892, HOUSTDN, TEX. Oynamic studies of clot structure formation (human).

R01HL-18676-03 (PHY) POLLACK, GERALO H, UNIVERSITY OF WASHINGTON, DEPT OF ANESTHESIOLOGY RN-1D, SEATTLE, WASH. Myocardial sarcomere mechanics (rat).

R01HL-18679-04 (SSS) POWERS, JAMES C, SCHOOL OF CHEMISTRY, GEDRGIA INST OF TECHNOLOGY, ATLANTA, GEORGIA. Synthetic protease inhibitors.

R01HL-18682-03 (BIO) JUNGMANN, RICHARO A, NDRTHWESTERN UNIVERSITY, 3D3 EAST CHICAGO AVENUE, CHICAGO, ILL Protein kinase and cholesterol metabolism in aorta (rabbits)

R01HL-18683-03 (EOC) HIRSHFELD, JOHN W, JR, UNIV DF PENNSYLVANIA HOSP, 340D SPRUCE STREET, PHILADELPHIA, PA Left ventricle function in aortic regurgitation (human)

R01HL-18687-03 (MET) BRUNZELL, JOHN O, UNIVERSITY DF WASHINGTDN, DEPARTMENT DF MEDICINE, RG-2D , SEATTLE, WASH Pathophysiology of genetic hypertriglyceridemias (human)

R01HL-18692-03 (CVB) OI FERRANTE, NICOLA M, BAYLDR COLLEGE OF MEDICINE, 12DD MOURSUND, HDUSTON, TEX Glycosaminoglycans and lipoproteins of human plasma.

R01HL-18705-03 (MET) FIELOING, CHRISTOPHER J, UNIVERSITY DF CALIFORNIA, CARDIDVASCULAR RES INST, SAN FRANCISCO, CALIF Regulation of plasma triglyceride metabolism (rats)

P01HL-18708-03 (HEP) CHANCE, BRITTON, UNIVERSITY DF PENNSYLVANIA, SCHODL OF MEDICINE, PHILADELPHIA, PA. Oxygen, energy and contractility in cardiac tissue.

P01HL-18708-03 0003 (HEP) ERECINSKA, MARIA. Oxygen, energy and contractility in cardiac tissue--Structural-functional studies on cytochrome c oxidase.

P01HL-18708-03 0004 (HEP) BLASIE, J KENT. Dxygen, energy and contractility in cardiac tissue--Structural-functional studies on sarcoplasmic reticulum (rabbits).

P01HL-18708-03 0005 (HEP) SCARPA, ANTONIO. Oxygen, energy and contractility in cardiac tissue--Cytosolic calcium homeostasis and bioenergetics of cardiac tissue (animals).

P01HL-18708-03 0007 (HEP) HOLTZER, HOWARD. Oxygen, energy and contractility in cardiac tissue--Surfaces, energy requirements, and contractile proteins of cardiac cell in vitro.

P01HL-18708-03 0008 (HEP) HOLTZER, HOWARD. Dxygen, energy and contractility in cardiac tissue--Cardiac cell culture facility.

P01HL-18708-03 0009 (HEP) WILLIAMSON, JOHN R. Oxygen, energy and contractility in cardiac tissue--Regulation of oxygen utilization of cardiac tissue (rats, rabbits).

P01HL-18708-03 0010 (HEP) CHANCE, BRITTON. Oxygen, energy and contractility in cardiac tissue--Tissue oxygen utilization (rats, dogs).

R01HL-18710-02 (CVA) CHEUNG, PETER W, CASE WESTERN RESERVE UNIV, 501 WICKENDEN, CLEVELANO, OHIO. Non-invasive reflection oximetry in peripheral tissue (dogs).

R01HL-18711-03 (CVA) SPERELAKIS, NICK, UNIVERSITY OF VIRGINIA, JDRDAN HALL, CHARLDTTESVILLE, VA. Electrophysiology of heart cells (rats, chicks).

R01HL-18712-03 (NTN) GUTHRIE, HELEN A, PENNSYLVANIA STATE UNIV, ROOM 202B, UNIVERSITY PARK, PA. Iron deficiency-hyperlipidemia in development (rats).

R01HL-18714-04 (PTHA) TRELSTAD, ROBERT L, MASSACHUSETTS GENERAL HOSPITAL, 51 BLOSSDM STREET, BOSTDN, MASS. Cardiovascular matrix--Morphogenesis and maturation (human, chick embryo, mammal).

R01HL-18715-02 (EDC) APOSTOLIDES, ARISTIDE Y, UNIVERSITY OF MARYLANO, 31 SOUTH GREENE STREET, BALTIMORE, MO. Hypertension incidence project (human).

R01HL-18718-04 (CVB) RAMWELL, PETER W, GEORGETOWN UNIVERSITY, 390D RESERVOIR ROAO, N W, WASHINGTON, O C. Prostaglandin precursors and vascular reactivity (dogs).

R01HL-18723-03 (GEN) CORTNER, JEAN A, CHILDREN'S HOSPITAL, 34TH & CIVIC CENTER BLVO, PHILAOELPHIA, PA. Genetic heterogeneity of acid lipase--Atherosclerosis (human).

R01HL-18725-03 (BBCB) CHEUNG, PETER W, CASE WESTERN RESERVE UNIV, 501 WICKENDEN BUILDING, CLEVELAND, OHIO. Light-scattering studies of the sickling process (human).

R01HL-18730-03 (CVB) GOMEZ-SANCHEZ, CELSO E, UNIVERSITY OF TEXAS, 5323 HARRY HINES BOULEVARD, OALLAS, TEX. Role of mineralocorticoids in low renin hypertension (human, rats).

R01HL-18731-02 (SGYA) LILLEHEI, RICHARD C, UNIVERSITY OF MINNESOTA, MAYO MEMORIAL BLDG, BOX 49D, MINNEAPOLIS, MINN. RES stimulating materials in experimental shock (dogs).

R01HL-18736-03 (CVA) BRATZLER, ROBERT L, PRINCETON UNIVERSITY, OEPT OF CHEMICAL ENGINEERING, PRINCETON, N J. Protein transport through arterial tissue (rabbits).

R01HL-18737-03 (BBCB) KRIMM, SAMUEL, UNIVERSITY OF MICHIGAN, 729 PHYSICS-ASTRONOMY BLOG, ANN ARBOR, MICH. Human erythrocyte membrane structure.

R01HL-18738-02 (SGYA) HARRIS, WILLIAM H, MASSACHUSETTS GENERAL HOSPITAL, FRUIT STREET, BOSTON, MASS. Prevention of postoperative venous thrombi (human, cattle).

R01HL-18744-03 (BMT) LOBERG, MICHAEL O, UNIVERSITY OF MARYLAND, 22 S GREENE STREET, BALTIMORE, MD. Preparation of radiopharmaceuticals from drug analogs.

R01HL-18746-02 (BBCA) SAKURA, J OAVIO, MC LEAN HOSPITAL, 115 MILL STREET, BELMONT, MASS. Chemical studies on proteolipid apoproteins (cattle).

R01HL-18749-03 (CVA) WEBER, KARL T, HOSP/UNIV OF PENNSYLVANIA, 34DD SPRUCE STREET, PHILADELPHIA, PA. Ventricular mechanics in the overloaded heart (dogs).

R01HL-18762-03 (SGYA) HUMPHREY, EDWARD W, 54TH ST & 48TH AVE SO, MINNEAPOLIS, MINN. Post-traumatic pulmonary insufficiency (dogs).

R01HL-18764-03 (SGYA) SPARKS, ROBERT E, WASHINGTON UNIVERSITY, LINDELL & SKINKER, ST LOUIS, MO. Biosorbable thromboresistant surfaces (dogs, rats, swine, human).

R01HL-18769-04 (SRC) MYERBURG, ROBERT J, UNIVERSITY OF MIAMI, DEPARTMENT OF MEDICINE, MIAMI, FLA. Studies in survivors of lethal arrhythmias (human).

R01HL-18776-04 (SRC) HINKLE, LAWRENCE E, JR, CORNELL UNIVERSITY, 130D YORK AVENUE, NEW YORK, N Y. Prevention of acute and fatal cardiovascular disease (human).

R01HL-18783-04 (SRC) LOWN, BERNARO, HARVARD SCHOOL OF PUBLIC HLTH, 665 HUNTINGTON AVENUE, BOSTON, MASS. Detection and control of ventricular premature beats (human).

R01HL-18793-03 (SRC) BASHE, WINSLOW J, JR, COLLEGE OF MEOICINE, 4DD W 1DTH AVENUE, COLUMBUS, OHIO. Clinical-pathologic studies of sudden cardiac death (human).

R01HL-18794-04 (SRC) ROSEN, KENNETH M, UNIVERSITY OF ILLINOIS, 840 SOUTH WOOD STREET, CHICAGO, ILL. Prospective studies of conduction disease (human).

R01HL-18795-04 (SRC) WATANABE, AUGUST M, INDIANA UNIVERSITY, 1100 WEST MICHIGAN STREET, INDIANAPOLIS, IND. Ischemic arrhythmias--Effect of autonomic tone (dogs, rats, guinea pigs).

R01HL-18796-04 (SRC) HAN, JAOK, ALBANY MEDICAL COLLEGE, NEW SCOTLAND AVENUE, ALBANY, N Y. Experimental cardiac arrhythmias (dogs).

R01HL-18798-04 (SRC) BROWN, ARTHUR M, UNIVERSITY OF TEXAS, OEPT OF PHYSIOL & BIOPHYSICS, GALVESTON, TEX. Nervous and ionic factors in sudden cardiac death.

R01HL-18798-04 0001 (SRC) KUNZE, DIANA L. Nervous and ionic factors in sudden cardiac death--Potassium loss during myocardial ischemia (rabbits).

R01HL-18798-04 0002 (SRC) BROWN, ARTHUR M. Nervous and ionic factors in sudden cardiac death--Electron microprobe, ultrastructure analysis of ischemic myocardium (dog, rabbit).

R01HL-18798-04 0003 (SRC) STONE, HUBERT L. Nervous and ionic factors in sudden cardiac death--Left stellectomy in the prevention of sudden death (dogs).

R01HL-18800-04 (SRC) GOLDSTEIN, SIDNEY, HENRY FORD HOSPITAL, 2799 WEST GRAND BOULEVARD, OETROIT, MICH. Prospective study of resuscitated sudden death victims (human).

R01HL-18805-04 (SRC) DODGE, HAROLD T, UNIVERSITY OF WASHINGTON, SCHOOL OF MEDICINE RG-20, SEATTLE, WASH. Sudden cardiac death and the onset of myocardial infarction.

R01HL-18805-04 0001 (SRC) BRUCE, ROBERT A. Sudden cardiac death and the onset of myocardial infarction--Predictive value of maximum exercise stress testing (human).

R01HL-18805-04 0003 (SRC) DODGE, HAROLD T. Sudden cardiac death and the onset of myocardial infarction--Prediction from clinical and laboratory assessments (human).

R01HL-18805-04 0004 (SRC) COBB, LEONARD A. Sudden cardiac death and the onset of myocardial infarction--Sudden death survivors--Clinical follow-up and therapy (human).

R01HL-18805-04 0005 (SRC) HAMILTON, GLEN W. Sudden cardiac death and the onset of myocardial infarction--Sudden death survivors--Radionuclide studies (human).

R01HL-18805-04 0007 (SRC) REICHENBACH, DENNIS D. Sudden cardiac death and the onset of myocardial infarction--Analysis of pathologic factors involved in sudden death (human).

R01HL-18808-04 (SRC) OLIVER, G CHARLES, BIOMEDICAL COMPUTER LAB, 700 SOUTH EUCLID AVENUE, ST LOUIS, MO. Prediction and prevention of sudden cardiac death.

R01HL-18808-04 0001 (SRC) OLIVER, G CHARLES. Prediction and prevention of sudden cardiac death--Prognostic significance of premature ventricular contractions (human).

R01HL-18808-04 0003 (SRC) OLIVER, G CHARLES. Prediction and prevention of sudden cardiac death--Technical support (computer).

R01HL-18814-03 (EXP) ABEL, GENE G, MEMPHIS MENTAL HEALTH INST, 865 POPLAR AVENUE, MEMPHIS, TENN. Behavioral tactics for clinical cardiac control (human).

R01HL-18815-03 (SGY8) SILVER, DONALD, UNIVERSITY OF MISSOURI, 807 STADIUM ROAD, COLUMBIA, MO. Surgical vascular disorders (human, dogs).

R01HL-18818-04 (B8C8) YANG, JEN T, UNIVERSITY OF CALIFORNIA, 825-HSW, SAN FRANCISCO, CALIF. Stereochemical mechanism of sickling of hemoglobin S (human).

R01HL-18819-07 (BBC8) MANNING, JAMES M, ROCKEFELLER UNIVERSITY, 1230 YORK AVENUE, NEW YORK, N Y. Chemical studies on sickle cell hemoglobin (human).

R01HL-18823-02 (EXP) ELDER, S THOMAS, UNIVERSITY OF NEW ORLEANS, LAKEFRONT, NEW ORLEANS, LA. Physiological correlates of conditioned blood pressure (human).

R01HL-18824-03 (PTHA) SONNENBLICK, EDMUND H, ALBERT EINSTEIN COLLEGE OF MED, 1300 MORRIS PARK AVENUE, BRONX, N Y. Mechanisms of heart failure in myopathic hamster.

R01HL-18826-04 (PTHA) JOHNSON, ALICE R, UNIVERSITY OF TEXAS, 5323 HARRY HINES BLVD, DALLAS, TEX. Interaction of peptides and target cells in lung (human).

P01HL-18827-02 (HEPA) COLMAN, ROBERT W, UNIVERSITY OF PENNSYLVANIA, 340D SPRUCE STREET, PHILADELPHIA, PA. Platelet vessel wall interactions in thrombogenesis.

P01HL-18827-02 0001 (HEPA) KEFALIDIES, NICHOLES A. Platelet vessel wall interactions in thrombogenesis--Role of endothelial cells in the production of thrombi (human, cattle).

P01HL-18827-02 0002 (HEPA) JIMENEZ, SERGIO A. Platelet vessel wall interactions in thrombogenesis--Interactions of vessel wall macromolecules with factor XII (human, rats).

P01HL-18827-02 0003 (HEPA) GASIC, GABRIEL J. Platelet vessel wall interactions in thrombogenesis--Tumor cell and platelets in thrombogenesis and metastasis (human, animals).

P01HL-18827-02 0005 (HEPA) COLMAN, ROBERT W. Platelet vessel wall interactions in thrombogenesis--Platelet vessel wall interactions in thrombogenesis (human).

P01HL-18827-02 0006 (HEPA) SCHREIBER, ALAN D. Platelet vessel wall interactions in thrombogenesis--Platelet immune injury in man.

P01HL-18827-02 0007 (HEPA) COLMAN, ROBERT W. Platelet vessel wall interactions in thrombogenesis--Biochemistry and role factor V in thrombogenesis (human, cattle).

P50HL-18828-03 (SRC) NACHMAN, RALPH L, CORNELL UNIVERSITY, 1300 YORK AVENUE, NEW YORK, N Y. Specialized center of research in thrombosis.

P50HL-18828-03 0001 (SRC) NACHMAN, RALPH L. Specialized center of research in thrombosis--Membrane biology and hemostasis (human).

P50HL-18828-03 0002 (SRC) JAFFE, ERIC A. Specialized center of research in thrombosis--Endothelial cell biology (human, guinea pig).

P50HL-18828-03 0003 (SRC) HARPEL, PETER C. Specialized center of research in thrombosis--Structure and function of plasma coagulation inhibitors (human).

P50HL-18828-03 0004 (SRC) POLLEY, MARGARET J. Specialized center of research in thrombosis--Membrane changes in platelet physiology--Role of complement (mice, human).

P50HL-18828-03 0005 (SRC) WEKSLER, BABETTE B. Specialized center of research in thrombosis--Platelet inflammatory factors in thrombosis (human, guinea pig).

P50HL-18828-03 0006 (SRC) BECKER, CARL G. Specialized center of research in thrombosis--Etiology and pathogenesis of atherosclerosis (rabbit, monkey, rat, human).

P50HL-18828-03 0008 (SRC) MARCUS, AARON J. Specialized center of research in thrombosis--Biochemistry, physiology--Platelets and subcellular platelet particles (human).

P50HL-18828-03 0009 (SRC) RABELLINO, ENRIQUE. Specialized center of research in thrombosis--Platelet formation and megakaryocyte cell biology (guinea pig, human).

R01HL-18831-03 (CVB) JOKELAINEN, PENTTI T, UNIVERSITY OF MICHIGAN, 4643 MEDICAL SCIENCE II, ANN ARBOR, MICH. Microscopy of spontaneously hypertensive arterial lesion (rats).

R01HL-18834-04 (HEM) FURIE, BARBARA C, NEW ENGLAND MED CENTER HOSP, 171 HARRISON AVENUE, BOSTON, MASS. Metal-dependent complex formation in blood coagulation (human, cattle).

R01HL-18845-04 (CVB) MC GIFF, JOHN C, UNIV OF TENN CTR FOR THE HLTH, 800 MADISON AVENUE, MEMPHIS, TENN. Regulation of renal circulation and salt excretion (rats, dogs).

R01HL-18848-03 (CVB) PATTERSON, DONALD F, UNIVERSITY OF PENNSYLVANIA, 3800 SPRUCE STREET, PHILADELPHIA, PA. Etiology and development of congenital heart disease (dogs, cats).

R01HL-18850-03 (EDC) PIPBERGER, HUBERT V, VETERANS ADMINISTRATION HOSP, 50 IRVING STREET, N W, WASHINGTON, D C. Classification code for Frank orthogonal ECG.

R01HL-18852-03 (HEM) HANAHAN, DONALD J, UNIVERSITY OF TEXAS, 7703 FLOYD CURL DRIVE, SAN ANTONIO, TEX. Biochemical studies on the blood coagulation process (human, cattle).

R01HL-18859-03 (HEM) SCHIFFMAN, SANDRA, UNIV OF SOUTHERN CALIFORNIA, 2025 ZONAL AVENUE, LOS ANGELES, CALIF. Biochemistry of human factor XI (human).

R01HL-18862-02 (CVB) RAMSAY, DAVID J, UNIVERSITY OF CALIFORNIA, ROOM S-762, SAN FRANCISCO, CALIF. Thirst and its contribution to edema (dogs).

R01HL-18866-02 (CVA) BAKER, CARLETON H, UNIVERSITY OF SOUTH FLORIDA, BOX 8 12901 N 30TH STREET, TAMPA, FLA. Microvascular flow, volume, and reactivity (rats, cats).

R01HL-18868-03 (PHY) OPDYKE, DAVID F, NEW JERSEY MEDICAL SCHOOL, 100 BERGEN STREET, NEWARK, N J. Development of vertebrate vascular control systems (reptiles, amphibians).

R01HL-18873-02 (RAD) ZISKIN, MARVIN C, TEMPLE UNIVERSITY, 3400 NORTH BROAD STREET, PHILADELPHIA, PA. Early radiologic diagnosis of cardiac failure (monkey).

R01HL-18875-03 (CVB) KUNAU, ROBERT T, JR, UNIVERSITY OF TEXAS, 7703 FLOYD CURL DRIVE, SAN ANTONIO, TEX. Angiotension, prostaglandins, pressure and the kidney (rats).

R01HL-18876-03 (GEN) DARLINGTON, GRETCHEN J, CORNELL UNIVERSITY, 1300 YORK AVENUE, NEW YORK, N Y. Human alpha-1-antitrypsin synthesis in vitro.

R01HL-18878-03 (MET) KHACHADURIAN, AVEDIS K, RUTGERS MEDICAL SCHOOL, POST OFFICE BOX, PISCATAWAY, N J. Familial hypercholesteremia--Studies of fibroblasts (human).

R01HL-18882-02 (CVB) WILLIAMS, GORDON H, PETER BENT BRIGHAM HOSP, 721 HUNTINGTON AVENUE, BOSTON, MASS. Hormones in hypertension (human).

R01HL-18887-03 (MET) MEISNER, HERMAN M, CASE WESTERN RESERVE UNIV, DEPARTMENT OF PHARMACOLOGY, CLEVELAND, OHIO. Hypolipidemic drugs--Effects on FFA-albumin association (human, cattle).

R01HL-18891-02 (CVB) LANGFORD, HERBERT G, UNIVERSITY OF MISSISSIPPI, 2500 NORTH STATE STREET, JACKSON, MISS. Electrolyte intake and blood pressure in hypertension (human).

R01HL-18893-03 (CVB) KNYCH, EDWARD T, JR, UNIVERSITY OF MINNESOTA, 2205 E 5TH STREET, DULUTH, MINN. Mechanism of angiotensin action--Role of receptor (rats).

R01HL-18900-03 (PHY) WINEGRAD, SAUL, UNIVERSITY OF PENNSYLVANIA, DEPARTMENT OF PHYSIOLOGY, PHILADELPHIA, PA. Intercellular factors in function of cardiac cells.

R01HL-18905-04 (BBCA) WONG, KIN-PING, UNIVERSITY OF KANSAS, RAINBOW BLVD AT 39TH AVENUE, KANSAS CITY, KANS. Acquisition of native conformation of proteins (human, cattle).

R01HL-18907-03 (EDC) DEBUSK, ROBERT F, 730 WELCH ROAD, PALO ALTO, CALIF. Objective evaluation early after MI and heart surgery (human).

R01HL-18908-03 (PBC) WILSON, IRWIN B, UNIVERSITY OF COLORADO, DEPARTMENT OF CHEMISTRY, BOULDER, COLO. Angiotensin converting enzyme of human serum.

R01HL-18912-03 (CVB) SAGAWA, KIICHI, JOHNS HOPKINS UNIVERSITY, 720 RUTLAND AVENUE, BALTIMORE, MD. Mechanics of heart muscle contraction (cats, dogs).

R01HL-18918-03 (PBC) RUCKER, ROBERT B, UNIVERSITY OF CALIFORNIA, DEPARTMENT OF NUTRITION, DAVIS, CALIF. Characterization of lung elastins (rat, rabbit, chicken, Rhesus).

R01HL-18923-02 (PTHA) GALLA, JOHN H, UNIVERSITY OF KENTUCKY, DEPARTMENT OF MEDICINE, LEXINGTON, KY. Steroid-induced hyperlipidemia and hypertension (human, rats).

R01HL-18931-02 (PBC) RICHMOND, VIRGINIA L, UNIVERSITY OF WASHINGTON, PHYSIOLOGICAL NURSING SM-24, SEATTLE, WASH. Lung elastic tissue characteristics (swine, human).

R01HL-18932-03 (CVB) ROSENBLUM, WILLIAM I, MEDICAL COLLEGE OF VIRGINIA, BOX 17, MCV STATION, RICHMOND, VA. Brain microcirculation observed in vivo after trauma (mice).

R01HL-18933-03 (CVA) PIEPER, HEINZ P, OHIO STATE UNIVERSITY, 333 WEST 10TH AVENUE, COLUMBUS, OHIO. Energy output and efficiency of left ventricle (dog).

R01HL-18935-03 (HEM) CHAO, FRANCIS C, CENTER/BLOOD RESEARCH, INC, 800 HUNTINGTON AVENUE, BOSTON, MASS. Platelets, fibrinogen, soluble fibrin interaction (human).

R01HL-18936-02 (SGYA) MEMMI, CARLOS, HARBOR GENERAL HOSPITAL, 1124 WEST CARSON STREET, TORRANCE, CALIF. Heart preservation and transplantation studies (rat).

R01HL-18937-03 (HEM) FEINSTEIN, MAURICE B, UNIVERSITY OF CONNECTICUT, 263 FARMINGTON AVENUE, FARMINGTON, CONN. Cyclic nucleotides and calcium in platelets (human).

R01HL-18938-03 (PC) KUMAR, SURIENDER, NEW JERSEY MEDICAL SCHOOL, 100 BERGEN STREET, NEWARK, N J. Pulmonary fatty acid and phospholipid metabolism (rats).

R01HL-18943-03 (PHY) TARR, CHARLES M, UNIV OF KANSAS MEDICAL CENTER, DEPARTMENT OF PHYSIOLOGY, KANSAS CITY, KANS. Contractile activity of single cardiac cells.

R01HL-18947-02 (AFY) GEDDES, LESLIE A, PURDUE UNIVERSITY, ROOM 32, EE BUILDING, WEST LAFAYETTE, IND. Indirect mean arterial pressure (mammals).

R01HL-1894B-03 (SGYA) BERNSTEIN, EUGENE F, UNIVERSITY HOSPITAL, 225 WEST DICKINSON STREET, SAN DIEGO, CALIF. Pulseless flow and circulatory assistance (dogs, calves).

R01HL-18952-03 (PTHA) RANKIN, JOHN H, UNIVERSITY OF WISCONSIN, 750 UNIVERSITY AVENUE, MADISON, WIS. Metabolism in perfused fetal and newborn rabbit lungs.

R01HL-18968-03 (COM) HERMAN, GABOR T, S U N Y AT BUFFALO, 4226 RIDGE LEA, AMHERST, N Y. Computer technology for transaxial tomography.

R01HL-18969-02 (CVA) CRAWFORD, DONALD W, UNIV OF SOUTHERN CALIFORNIA, 2025 ZONAL AVENUE, LOS ANGELES, CALIF. Arterial wall oxygenation (rabbits, dogs).

P01HL-18974-03 (HEPA) REIS, DONALD J, CORNELL UNIVERSITY, 1300 YORK AVENUE, NEW YORK, N Y. Experimental neurogenic hypertension program.

P01HL-1B974-03 0001 (HEPA) REIS, DONALD J. Experimental neurogenic hypertension program--Central neural systems regulating arterial pressure (rabbits).

P01HL-1B974-03 0006 (HEPA) NATHAN, MARC A. Experimental neurogenic hypertension program--Model of sustained arterial hypertension (cats).

P01HL-1B974-03 000B (HEPA) REIS, DONALD J. Experimental neurogenic hypertension program--Monoamines and hypertension (rats).

P01HL-18974-03 0009 (HEPA) JOH, TONG H. Experimental neurogenic hypertension program--Biochemistry of brain tyrosine hydroxylase (rats).

P01HL-18974-03 0010 (HEPA) JOH, TONG H. Experimental neurogenic hypertension program--Biochemistry and regulation of PNMT in brain (rats).

P01HL-1B974-03 0011 (HEPA) JOH, TONG H. Experimental neurogenic hypertension program--Biochemistry and regulation of brain tryptophane hydroxylase (rats).

P01HL-18974-03 0012 (HEPA) PICKEL, VIRGINIA M. Experimental neurogenic hypertension program--Immunohistochemistry of central monoamine neurons (rats).

P01HL-18974-03 0014 (HEPA) REIS, DONALD J. Experimental neurogenic hypertension program--Administrative core.

P01HL-18974-03 0015 (HEPA) JOH, TONG H. Experimental neurogenic hypertension program--Neurochemistry core.

P01HL-18974-03 0016 (HEPA) REIS, DONALD J. Experimental neurogenic hypertension program--Neuroanatomy core.

P01HL-18974-03 0017 (HEPA) NATHAN, MARC A. Experimental neurogenic hypertension program--Computer-physiology core.

R01HL-18976-03 (EXP) OBRIST, PAUL A, UNIVERSITY OF NORTH CAROLINA, DIVISION OF HEALTH AFFAIRS, CHAPEL HILL, N C. Blood pressure control--Relation to behavioral stress (human, dog).

R01HL-1B977-03 (CVA) FRONEK, ARNOST, UNIV OF CALIFORNIA, SAN DIEGO, LA JOLLA, CALIF. Non-invasive diagnosis of peripheral arterial disease (human, dogs).

R01HL-18979-02 (CVA) MORETTI, RICHARD L, CHILDREN'S HOSPITAL, 51ST AND GROVE STREET, OAKLAND, CALIF. Mechanisms in local regulation of coronary flow (rabbits).

R01HL-1B9B4-01 (AFY) MAZZARA, JAMES T, ST VINCENT'S HOSPITAL & MED CT, 153 WEST 11TH STREET, NEW YORK, N Y. P5D effect on exercise limit in stable angina (human).

R01HL-18993-03 (SSS) FOLKERS, KARL, UNIVERSITY OF TEXAS, INST FOR BIOMEDICAL RESEARCH, AUSTIN, TEX. Biological investigations of substance P.

R01HL-18994-03 (SSS) PERNOW, BENGT B, KAROLINSKA HOSPITAL, DEPT OF CLINICAL PHYSIOLOGY, S-104 01 STOCKHOLM 6D SWEDEN. Substance P--Occurrence, pharmacology and physiology (mammals non-human, human).

R01HL-1B995-04 (SGYB) HARRISON, TIMOTHY S, MILTON S HERSHEY MEDICAL CTR, 5DD UNIVERSITY DRIVE, HERSHEY, PA. Cardiovascular determinants of catecholamine release (dogs).

R01HL-18997-02 (SGYA) WITTE, MARLYS H, ARIZONA MEDICAL CENTER, 15D1 N CAMPBELL AVENUE, TUCSON, ARIZ. Ischemic therapy in experimental hypersplenism (rats, dogs).

R01HL-19000-03 (PTHA) GANOTE, CHARLES E, NORTHWESTERN UNIVERSITY, 303 E CHICAGO AVENUE, CHICAGO, ILL. Irreversible myocardial injury (rats).

R01HL-19001-03 (PTHA) FUSTER, VALENTIN, MAYO FOUNDATION, 2DD FIRST STREET SOUTHWEST, ROCHESTER, MINN. Atherosclerosis in bleeder and drug treated subjects (pigs).

R01HL-19003-03 (RAD) PAULIN, SVEN J, BETH ISRAEL HOSPITAL, 33D BROOKLINE AVENUE, BOSTON, MASS. High precision densitometry of coronary angiograms.

R01HL-1900B-02 (PHY) ENNS, THEODORE, UNIV OF CALIFORNIA, SAN DIEGO, MARINE BIOLOGY RES DIV A-0D2, LA JOLLA, CALIF. Carbon dioxide diffusion in lung and muscle tissues (dogs).

R01HL-19009-03 (CVB) PHILLIPS, STEVEN J, TEMPLE UNIVERSITY, 34DD N BROAD STREET, PHILADELPHIA, PA. Morphometric analysis of the sinoatrial node (ferret).

R01HL-19010-03 (CVA) FROSOLONO, MICHAEL F, ALBERT EINSTEIN COLLEGE OF MED, 1300 MORRIS PARK AVENUE, NEW YORK, N Y. Metabolism and cell biology of lung surfactant system (rabbits, sheep).

R01HL-19011-03 (P8C) ADAMANY, ANTHONY M, ALBERT EINSTEIN COLL OF MED, 1300 MORRIS PARK AVENUE, BRONX, N Y. Smooth muscle cell membrane glycoprotein biosynthesis (cattle).

R01HL-19012-03 (CVB) BLOOMQUIST, EUNICE I, TUFTS UNIVERSITY, 136 HARRISON AVENUE, BOSTON, MASS. Smooth muscle of resistance vessels in hypertension (rats).

R01HL-19018-03 (PTHA) SCHWARZ, MARVIN I, UNIVERSITY OF COLORADO, 42D0 EAST NINTH AVENUE, DENVER, COLO. Etiologic factors in cryptogenic fibrosing alveolitis (human).

R01HL-19019-03 (RAD) DROST, CORNELIS J, CORNELL UNIVERSITY, NEW YORK STATE VETERINARY COLL, ITHACA, N Y. Accurate transcutaneous Doppler blood flow monitoring.

R01HL-19027-03 (CVB) BHALLA, RAMESH C, UNIVERSITY OF IOWA, 1-55D BASIC SCIENCES BLDG, IOWA CITY, IOWA. Calcium and cyclic AMP in causation of hypertension (rats).

R01HL-19030-03 (SGYA) WILLIAM, GAY A, JR, NEW YORK HOSPITAL, 525 EAST 68TH STREET, NEW YORK, N Y. Tissue protection during circulatory interruption (dogs).

R01HL-1903B-02 (SGYB) WHEELER, H BROWNELL, UNIVERSITY OF MASSCHUSETTS, 55 LAKE AVENUE NORTH, WORCESTER, MA. Plethysmographic evaluation of carotid blood flow (human, rabbits, dogs).

R01HL-19039-03 (CVB) SHOUKAS, ARTIN A, JOHNS HOPKINS UNIVERSITY, 72D RUTLAND AVENUE, BALTIMORE, MD. Circulation studies by one vs two circuit model (dogs).

R01HL-19044-03 (PHRA) BASSETT, ARTHUR L, UNIVERSITY OF MIAMI, P O BX 520875, BISCAYNE ANNEX, MIAMI, FLA. Effect of drugs on development of cardiac failure (cats).

R01HL-19045-03 (CVA) SPEAR, JOSEPH F, UNIVERSITY OF PENNSYLVANIA, 38D0 SPRUCE STREET, PHILADELPHIA, PA. Electrophysiology of cardiac automaticity (human, dogs).

R01HL-1904B-03 (CVB) BAUR, PAUL S, UNIV OF TEXAS MED BRANCH, DEPT OF PHYSIOLOGY & BIOPHY, GALVESTON, TEX. Structure of baroreceptors in hypertension (rats).

R01HL-19053-03 (PTHA) KAPLAN, HARRY A, NEW JERSEY MEDICAL SCHOOL, 100 BERGEN STREET, NEWARK, N J. Vascular anatomy of the telencephalon (human).

R01HL-19055-03 (SGYA) EDMUNDS, L HENRY, JR, 1D00 RAVOIN INSTITUTE, 3400 SPRUCE STREET, PHILADELPHIA, PA. Platelet function during extracorporeal perfusion (human, mammals).

R01HL-19056-03 (CVA) HAMOSH, MARGIT, GEORGETOWN U SCHOOL OF MED, 3900 RESEVOIR RD, N W, WASHINGTON, D C. Blood triglycerides and lipoprotein lipase in the lung (rats).

R01HL-19057-03 (CVB) BECK, NAMA, UNIVERSITY OF TEXAS, DEPARTMENT OF MEDICINE, SAN ANTONIO, TEX. Catecholamines and cyclic AMP in cardiovascular system (rats, dogs).

R01HL-19062-03 (PHRA) FERTEL, RICHARD H, OHIO STATE UNIVERSITY, 333 W 10TH AVENUE, COLUMBUS, OHIO. Pharmacologic control of mast cell phosphodiesterase (human, rats).

R01HL-19063-03 (MET) EDWARDS, PETER A, UNIVERSITY OF CALIFORNIA, DEPARTMENT OF MEDICINE, LOS ANGELES, CALIF. Cholesterol and lipoprotein metabolism (rat hepatocytes).

R01HL-19065-02 (BBCB) PLACHY, WILLIAM Z, SAN FRANCISCO STATE UNIVERSITY, 16D0 HOLLOWAY AVENUE, SAN FRANCISCO, CALIF. Molecular oxygen in biological fluids.

R01HL-19066-03 (MCHA) COLWELL, WILLIAM T, SRI INTERNATIONAL, 333 RAVENSWOOD AVENUE, MENLO PARK, CALIF. Synthesis and evaluation of prostaglandin metabolites (guinea pigs).

R01HL-19068-03 (MBY) CHAN, LEE-NIEN L, UNIVERSITY OF CONNECTICUT, DEPARTMENT OF PHYSIOLOGY, FARMINGTON, CONN. Changes in membrane properties during erythropoiesis (chick embryo).

R01HL-19072-03 (PTHA) WEISSMANN, GERALD, NEW YORK UNIVERSITY, 550 FIRST AVENUE, NEW YORK, N Y 1D016. Modification of tissue injury in myocardial infarction (dogs, human).

R01HL-19073-02 (EDC) COMSTOCK, GEORGE W, TRAINING CTR FOR PUB HLTH RES, BOX 2067, HAGERSTOWN, MD. Heart disease and drinking water at home.

R01HL-19076-03 (CVB) JENSEN, RICHARD A, SRI INTERNATIONAL, 333 RAVENSWOOD AVENUE, MENLO PARK, CALIF. Vagal control of heart rate--A biophysical model (rabbits).

R01HL-19077-01 (PTHA) SILVERSTEIN, EMANUEL, SUNY DOWNSTATE MEDICAL CENTER, 45D CLARKSON AVENUE, BROOKLYN, N Y. Biochemistry and molecular biology of sarcoidosis (human, rabbits).

R01HL-19082-01 (PHY) HERLIHY, JEREMIAH T, UNIVERSITY OF TEXAS, 77D3 FLOYD CURL DRIVE, SAN ANTONIO, TEX. Hypoxia-induced relaxation of vascular smooth muscle.

R01HL-19083-02 (MCHB) CLARK, LELAND C, JR, CHILDREN'S HOSPITAL RES FDN, ELLAND AND BETHESDA AVENUES, CINCINNATI, OHIO. Rapid specific micro measurement of blood cholesterol.

R01HL-19084-03 (MET) ALADJEM, FREDERICK, UNIV OF SOUTHERN CALIFORNIA, 2025 ZONAL AVENUE, LOS ANGELES, CALIF. Structure and function of serum lipoproteins (human).

R01HL-19089-03 (CVA) GROSSMAN, WILLIAM, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Diastolic properties of the left ventricle (human, dogs).

R01HL-19091-02 (CVB) DETWEILER, DAVID K, UNIVERSITY OF PENNSYLVANIA, 38D0 SPRUCE STREET, PHILADELPHIA, PA. Sustained increase in cardiac output (dogs).

R01HL-19095-03 (BBCB) MARGOLIS, SIMEON, JOHNS HOPKINS UNIVERSITY, 725 NORTH WOLFE STREET, BALTIMORE, MD. Laser spectroscopy of lipoproteins (human).

R01HL-19105-02 (HEM) KISKER, C THOMAS, UNIVERSITY OF IOWA HOSPS, ROOM 247A MEDICAL LABS BLDG, IOWA CITY, IOWA. Detection and adherence of fibrin monomer complexes (human).

R01HL-19109-03 (PTHA) MINICK, CHARLES R, CORNELL UNIVERSITY, 130D YORK AVENUE, NEW YORK, N Y. Regression of chronic atherosclerosis (rabbits).

R01HL-19112-03 (CVB) PICK, RUTH, MICHAEL REESE HOSP & MED CTR, 29TH STREET & ELLIS AVENUE, CHICAGO, ILL. Atherosclerosis studies (monkeys).

R01HL-19115-02 (SSS) RINARD, GILBERT A, EMORY UNIVERSITY, ATLANTA, GA. Hormonal control of tracheobronchial cyclic AMP (rats, guinea pigs).

R01HL-19118-03 (AFY) PIMMEL, RUSSELL L, UNIVERSITY OF NORTH CAROLINA, MEDICINE DEPARTMENT, CHAPEL HILL, N C. Measurement of airways mechanics (human, dog).

R01HL-19127-03 (SSS) REBA, RICHARD C, GEORGE WASHINGTON UNIVERSITY, 9D1 23RD STREET, N W, WASHINGTON, D C. Synthesis of molecules for myocardial imaging (rats).

R01HL-19129-04 (PHRA) ASKARI, AMIR, MEDICAL COLLEGE OF OHIO, DEPT OF PHARMA & THERAPEUTICS, TOLEDO, OHIO. Cardiac glycosides--Mechanisms of cellular actions.

R01HL-19131-04 (HEM) ROSENBERG, ROBERT D, SIDNEY FARBER CANCER INSTITUTE, 35 BINNEY STREET, BOSTON, MASS. Hypercoagulability and assays for its protection (human).

R01HL-19132-04 (CTY) PHILLIPS, JERRY L, UNIVERSITY OF TEXAS, DIV/ALLIED HLTH & LIFE SCIS, SAN ANTONIO, TEX. Role of zinc transferrin in lymphocyte transformation (human).

R01HL-19133-03 (CVB) MC LAUGHLIN, ROBERT J, BOSTON UNIVERSITY, 8D EAST CONCORD STREET, BOSTON, MASS. Contractile and elastic properties of cardiac muscle (cats).

R01HL-19134-04 (CVB) MALIK, KAFAIT U, UNIVERSITY OF TENNESSEE, 800 MADISON AVENUE, MEMPHIS, TENN. Angiotensin, prostaglandins, adrenergic interactions (rats, rabbits).

R01HL-19135-04 (CVA) BASSINGTHWAIGHTE, JAMES B, UNIVERSITY OF WASHINGTON, BIOENGINEERING CENTER, SEATTLE, WASH. Heterogeneity of regional myocardial blood flow (dogs).

R01HL-19136-03 (HED) MARKWALD, ROGER R, TEXAS TECH SCHOOL OF MEDICINE, TEXAS TECH UNIVERSITY, LUBBOCK, TEX. Mucopolysaccharide metabolism in cardiac anomalies (rats).

R01HL-1913B-03 (PHY) FABIATO, ALEXANDRE, MEDICAL COLLEGE OF VIRGINIA, MCV STATION, BOX 6D8, RICHMOND, VA. Contractile activation of skinned cardiac cells (mammals).

R01HL-19139-03 (CVB) BASSINGTHWAIGHTE, JAMES B, UNIVERSITY OF WASHINGTON, CTR FOR BIOENGINEERING RF-52, SEATTLE, WASH. Dispersion of diffusible indicators in the body (human, cats, dogs).

R01HL-19144-03 (CVB) BUNAG, RUBEN D, UNIVERSITY OF KANSAS, 39TH ST AT RAINBOW BLVD, KANSAS CITY, KANS. Contraceptive steroids and experimental hypertension (rats).

R01HL-1914B-03 (CBY) WEGLICKI, WILLIAM B, VIRGINIA COMMONWEALTH UNIV, 1200 EAST BROAD STREET, RICHMOND, VA. Myocardial organelle lipid structure and function (dog, rat).

P50HL-191S3-02 (HLBA) BRIGHAM, KENNETH L, VANDERBILT UNIVERSITY, B-3211, MEDICAL CENTER, NASHVILLE, TENN. SCOR--Pulmonary edemas--Etiology, pathogenesis.

P50HL-191S3-02 0001 (HLBA) BRIGHAM, KENNETH L. SCOR--Pulmonary edemas--Etiology, pathogenesis--Prostaglandins and the lung circulation (sheep).

P50HL-191S3-02 0002 (HLBA) BRIGHAM, KENNETH L. SCOR--Pulmonary edemas--Etiology, pathogenesis--Lung fluid dynamics--Classical mediators and their inhibitors (sheep).

P50HL-191S3-02 0003 (HLBA) BRIGHAM, KENNETH L. SCOR--Pulmonary edemas--Etiology, pathogenesis--Possible inhibitors of mediator release and pulmonary vascular response (sheep).

P50HL-191S3-02 0004 (HLBA) HARRIS, THOMAS R. SCOR--Pulmonary edemas--Etiology, pathogenesis--Physical mechanisms in lung transvascular transport--Math models (sheep).

P50HL-191S3-02 0005 (HLBA) HARRIS, THOMAS R. SCOR--Pulmonary edemas--Etiology, pathogenesis--Lung vascular permeability measured by indicator dilution methods (sheep).

P50HL-191S3-02 0006 (HLBA) SNELL, JAMES D. SCOR--Pulmonary edemas--Etiology, pathogenesis--Pulmonary vascular abnormalities in human lung diseases.

P50HL-191S3-02 0007 (HLBA) OWEN, PATTY J. SCOR--Pulmonary edemas--Etiology, pathogenesis--Core--Experimental laboratories and support facilities.

P50HL-191S3-02 0008 (HLBA) HARRIS, THOMAS R. SCOR--Pulmonary edemas--Etiology, pathogenesis--Core--Biomedical engineering.

P50HL-191S5-02 (SRC) STAUB, NORMAN C, UNIVERSITY OF CALIFORNIA, CARDIOVASCULAR RES INST, 1315M, SAN FRANCISCO, CALIF. Pathophysiology of pulmonary edema.

P50HL-191S5-02 0001 (SRC) MURRAY, JOHN F. Pathophysiology of pulmonary edema--Pulmonary edema study unit (human, dog).

P50HL-191S5-02 0002 (SRC) GORIN, ARNOLD B. Pathophysiology of pulmonary edema--Non-invasive measurement of protein turnover in human lung (also sheep).

P50HL-191S5-02 0004 (SRC) STAUB, NORMAN C. Pathophysiology of pulmonary edema--Physical and chemical effects of multiple pulmonary emboli (sheep).

P50HL-191S5-02 0005 (SRC) STAUB, NORMAN C. Pathophysiology of pulmonary edema--Protein exchange sites and lymph protein concentration in lung (mice, sheep).

P50HL-191S5-02 000B (SRC) MCDONALD, DONALD M. Pathophysiology of pulmonary edema--Core microscopy laboratory.

P50HL-191S6-02 (SRC) NADEL, JAY A, UNIVERSITY OF CALIFORNIA, CARDIOVASCULAR RESEARCH INST, SAN FRANCISCO, CALIF. Pulmonary SCOR--Chronic diseases of airways.

P50HL-191S6-02 0001 (SRC) NADEL, JAY A. Pulmonary SCOR--Chronic diseases of airways--Irritability of airways induced by epithelial damage in healthy subjects (human).

P50HL-191S6-02 0002 (SRC) GOLD, WARREN M. Pulmonary SCDR--Chronic diseases of airways--Early detection of emphysema and chronic airway obstruction (human, dog).

P50HL-191S6-02 0003 (SRC) NADEL, JAY A. Pulmonary SCOR--Chronic diseases of airways--Powdered tantalum to study airway morphology and mucociliary clearance (human).

P50HL-191S6-02 0004 (SRC) GOLD, WARREN M. Pulmonary SCOR--Chronic diseases of airways--Interactions between mast cells, mediators and nerves in canine asthma.

P50HL-191S6-02 0005 (SRC) SAMPSON, SANFORD R. Pulmonary SCDR--Chronic diseases of airways--Vagal receptors in the airway--Epithelial injury and antigen (dog, cat, rabbit).

P50HL-191S6-02 0006 (SRC) MCDONALD, DONALD M. Pulmonary SCOR--Chronic diseases of airways--Core microscopy laboratory.

P50HL-191S7-02 (SRC) TALAMO, RICHARD C, JOHNS HOPKINS HOSPITAL, DEPARTMENT OF PEDIATRICS, BALTIMORE, MD. Studies in cystic fibrosis and bronchiolitis.

P50HL-191S7-02 0001 (SRC) BRUSILOW, SAUL W. Studies in cystic fibrosis and bronchiolitis--Laboratory core unit.

P50HL-191S7-02 0002 (SRC) ROSENSTEIN, BERYL J. Studies in cystic fibrosis and bronchiolitis--Clinical core.

P50HL-191S7-02 0003 (SRC) PROCTOR, DONALD F. Studies in cystic fibrosis and bronchiolitis--Nasal mucosal function in patients with cystic fibrosis.

P50HL-191S7-02 0004 (SRC) BANG, FREDERIK B. Studies in cystic fibrosis and bronchiolitis--Macromolecular regulators of mucus secretion--Invertebrate model.

P50HL-191S7-02 0007 (SRC) TALAMO, RICHARD C. Studies in cystic fibrosis and bronchiolitis--Analysis of cystic fibrosis factors (human).

P50HL-191S7-02 000B (SRC) TALAMO, RICHARD C. Studies in cystic fibrosis and bronchiolitis--Serum proteins in cystic fibrosis (human).

P50HL-191S7-02 0009 (SRC) BAYLIN, STEPHEN B. Studies in cystic fibrosis and bronchiolitis--Polyamine metabolism in cystic fibrosis (human, rat).

P50HL-191S7-02 0011 (SRC) HUGHES, WALTER. Studies in cystic fibrosis and bronchiolitis--Pathogenesis of bronchiolitis (children).

P50HL-19160-02 (SRC) BARBERO, GIULIO J, UNIVERSITY OF MISSOURI, DEPARTMENT OF CHILD HEALTH, COLUMBIA, MO. Mucus abnormality in cystic fibrosis.

P50HL-19160-02 0001 (SRC) MARTINEZ, J RICARDO. Mucus abnormality in cystic fibrosis--Regulation of respiratory secretions (rat, human).

P50HL-19160-02 0002 (SRC) SPICER, SAMUEL S. Mucus abnormality in cystic fibrosis--Ultrastructure, cytochemistry of pulmonary secretion (human, rat).

R01HL-19163-02 (EVR) SHERBURNE, STUART W, FISHERIES RESEARCH STATION, DEPT OF MARINE RESOURCES, WEST BOOTHBAY HARBOR, MAINE. Piscine erythrocytic necrosis in the Atlantic cod.

R01HL-19164-03 (EVR) NICHOLSON, BRUCE L, UNIVERSITY OF MAINE, DEPT OF MICROBIOLOGY, ORONO, MAINE. Piscine erythrocytic necrosis in the Atlantic cod.

R01HL-1916B-03 (MET) MARSH, JULIAN B, MEDICAL COLL OF PENNSYLVANIA, 3300 HENRY AVENUE, PHILADELPHIA, PA. Biosynthesis of plasma lipoprotein (rats, rabbits).

P50HL-19170-02 (SRC) BRAIN, JOSEPH D, HARVARD UNIVERSITY, 665 HUNTINGTON AVENUE, BOSTON, MASS. Harvard pulmonary SCOR--Chronic diseases of the airways.

P50HL-19170-02 0001 (SRC) BRAIN, JOSEPH D. Harvard pulmonary SCOR--Chronic diseases of the airways--Natural history, reversibility of pulmonary abnormalities in smokers (human).

P50HL-19170-02 0003 (SRC) INGRAM, ROLAND H, JR. Harvard pulmonary SCOR--Chronic diseases of the airways--Mechanisms of bronchial reactivity to acute and chronic airway challenge (dog).

P50HL-19170-02 0004 (SRC) BRAIN, JOSEPH D. Harvard pulmonary SCOR--Chronic diseases of the airways--Exercise, increased ventilation effect on airway exposure and responses (rodent).

P50HL-19170-02 0005 (SRC) JAEGER, RUDOLPH J. Harvard pulmonary SCDR--Chronic diseases of the airways--Pulmonary toxicology of plastics intermediates and pyrolysis products (animal).

P50HL-19170-02 0006 (SRC) HOPPIN, FREDERIC G. Harvard pulmonary SCDR--Chronic diseases of the airways--Mechanism of overdistension (human, animal).

P50HL-19170-02 0007 (SRC) MCFADDEN, EDWARD R. Harvard pulmonary SCOR--Chronic diseases of the airways--Therapy effect on airway obstruction in acute asthma (human).

P50HL-19170-02 000B (SRC) LEITH, DAVID E. Harvard pulmonary SCOR--Chronic diseases of the airways--Multiple-transient artificial coughing (dogs, human).

P50HL-19170-02 0009 (SRC) LEITH, DAVID E. Harvard pulmonary SCDR--Chronic diseases of the airways--Ventilatory muscle training in chronic obstructive pulmonary disease (human).

P50HL-19170-02 0010 (SRC) DAWSON, STANLEY V. Harvard pulmonary SCOR--Chronic diseases of the airways--Computer Core.

P50HL-19171-02 (SRC) CLYDE, WALLACE A, JR, UNIVERSITY OF NORTH CAROLINA, DEPARTMENT OF PEDIATRICS, CHAPEL HILL, N C. Pulmonary SCOR--Lung injury by childhood infections.

P50HL-19171-02 0001 (SRC) COLLIER, ALBERT M. Pulmonary SCOR--Lung injury by childhood infections--Longitudinal study--Respiratory infections and lung growth in normal children.

P50HL-19171-02 0003 (SRC) FERNALD, GERALD W. Pulmonary SCOR--Lung injury by childhood infections--Natural history, host defense defects--Children with chronic pulmonary disease.

P50HL-19171-02 0004 (SRC) DENNY, FLOYD W. Pulmonary SCOR--Lung injury by childhood infections--Long-term effects of respiratory infections in early childhood.

P50HL-19171-02 0005 (SRC) LODA, FRANK A. Pulmonary SCOR--Lung injury by childhood infections--Chronic respiratory disease of children in North Carolina.

P50HL-19171-02 0006 (SRC) CLYDE, WALLACE A, JR. Pulmonary SCOR--Lung injury by childhood infections--Development of model systems (bacteria, viruses, hamsters).

P50HL-19171-02 0007 (SRC) FERNALD, GERALD W. Pulmonary SCOR--Lung injury by childhood infections--Immunologic studies in models of lower respiratory tract infection (rodents).

P50HL-19171-02 000B (SRC) COLLIER, ALBERT M. Pulmonary SCOR--Lung injury by childhood infections--Host-parasite interaction--Electron microscopy, radioautography, histochemistry.

P50HL-19171-02 0009 (SRC) MUSE, KENNETH E. Pulmonary SCOR--Lung injury by childhood infections--Host-parasite interaction--Scanning electron microscopy, freeze-fracture methods.

P50HL-19171-02 0010 (SRC) BASEMAN, JOEL B. Pulmonary SCOR--Lung injury by childhood infections--Metabolic pathways of normal and injured respiratory cells.

P50HL-19171-02 0011 (SRC) FERNALD, GERALD W. Pulmonary SCOR--Lung injury by childhood infections--Clinical support core.

P50HL-19171-02 0012 (SRC) DENNY, FLOYD W. Pulmonary SCDR--Lung injury by childhood infections--Laboratory support core.

R01HL-19173-03 (SGYB) EBERHART, ROBERT C, UNIVERSITY OF TEXAS, ENGINEERING SCIENCE BLDG 608, AUSTIN, TEX. Analysis of blood trauma from microporous oxygenators (human, dogs, rabbits).

R01HL-1917S-03 (MET) MERIMEE, THOMAS J, UNIVERSITY OF FLORIDA, BOX ND 239, GAINESVILLE, FLA. Pituitary modulation of micro-and macrovascular disease (human, rats).

R01HL-191B1-02 (BIO) KEELY, STANLEY L, JR, VANDERBILT UNIVERSITY, DEPARTMENT OF PHYSIOLOGY, NASHVILLE, TENN. Regulation of heart cAMP-dependent protein kinase (rodents).

R01HL-191B2-03 (SGYA) GEHA, ALEXANDER S, YALE UNIVERSITY, 333 CEDAR STREET, NEW HAVEN, CONN. Surgical aspects of myocardial hypertrophy (dogs).

P50HL-191B5-02 (HLBA) CLEMENTS, JOHN A, UNIVERSITY OF CALIFORNIA, CARDIOVASCULAR RES INSTITUTE, SAN FRANCISCO, CALIF. Pulmonary SCOR--Neonatal respiratory distress syndromes.

P50HL-191B5-02 0001 (HLBA) WILLIAMS, MARY C. Pulmonary SCOR--Neonatal respiratory distress syndromes--Sites of synthesis, secretion and structure of surface active material (rat).

P50HL-191B5-02 0002 (HLBA) BENSON, BRADLEY J. Pulmonary SCOR--Neonatal respiratory distress syndromes--Biochemistry, ultrastructure--Pulmonary surface active material (human, animal).

P50HL-191B5-02 0003 (HLBA) KITTERMAN, JOSEPH A. Pulmonary SCDR--Neonatal respiratory distress syndromes--Factors affecting formation and release of pulmonary surfactant in fetal lambs.

P50HL-19185-02 0004 (HLBA) BLANO, RICHARO O. Pulmonary SCOR-Neonatal respiratory distress syndromes-Fluid and protein transport in fetal and newborn lung (sheep, rabbits).

P50HL-19185-02 0005 (HLBA) BALLARO, PHILIP L. Pulmonary SCOR-Neonatal respiratory distress syndromes--Role and mechanism of glucocorticoids in fetal lung maturation (human, rabbit).

P50HL-19185-02 0006 (HLBA) PHIBBS, ROOERIC H. Pulmonary SCOR-Neonatal respiratory distress syndromes-Evaluation of risk factors in neonatal respiratory distress (human, sheep).

P50HL-19185-02 0007 (HLBA) BLANO, RICHARO O. Pulmonary SCOR--Neonatal respiratory distress syndromes--Sodium bicarbonate and albumin in resuscitation of preterm infants (human).

P50HL-19185-02 0009 (HLBA) BRAOY, JUNE P. Pulmonary SCOR-Neonatal respiratory distress syndromes-Nasal continuous positive airway pressure in hyaline membrane disease (human).

P50HL-19185-02 0011 (HLBA) TOOLEY, WILLIAM H. Pulmonary SCOR--Neonatal respiratory distress syndromes--Complications and sequelae of neonatal respiratory distress (human).

P50HL-19185-02 0012 (HLBA) MCOONALO, OONALO M. Pulmonary SCOR--Neonatal respiratory distress syndromes--Core microscopy lab.

P50HL-19187-02 (SRC) HOOSON, WILLIAM A, UNIVERSITY OF WASHINGTON, SCHOOL OF MEDICINE, SEATTLE, WASH. Pediatric pulmonary SCOR--Hyaline membrane disease.

P50HL-19187-02 0001 (SRC) HOOSON, WILLIAM A. Pediatric pulmonary SCOR--Hyaline membrane disease--Hyaline membrane disease--Changes in lung mechanics and gas exchange (monkeys).

P50HL-19187-02 0002 (SRC) PRUEITT, JOHN L. Pediatric pulmonary SCOR--Hyaline membrane disease--Hyaline membrane disease--Alterations in surface active material (monkeys).

P50HL-19187-02 0003 (SRC) LUCHTEL, OANIEL L. Pediatric pulmonary SCOR--Hyaline membrane disease--Hyaline membrane disease--Ultrastructure studies (monkey).

P50HL-19187-02 0004 (SRC) PRUEITT, JOHN L. Pediatric pulmonary SCOR--Hyaline membrane disease--Hyaline membrane disease--Surface active material, lamellar bodies (mice, rats).

P50HL-19187-02 0007 (SRC) SELLS, CLIFFORO J. Pediatric pulmonary SCOR--Hyaline membrane disease--Follow-up study--Infants with hyaline membrane disease (human).

P50HL-19187-02 0009 (SRC) ZICK, GREGORY L. Pediatric pulmonary SCOR--Hyaline membrane disease--Non-invasive measurement and monitoring of arterial oxygen tension (dogs, sheep).

P50HL-19187-02 0010 (SRC) GUTHRIE, ROBERT O. Pediatric pulmonary SCOR--Hyaline membrane disease--Treatment, outcome of HMD--Continuous positive airway pressure (human, monkey).

P50HL-19187-02 0011 (SRC) KNAUSS, THOMAS A. Pediatric pulmonary SCOR--Hyaline membrane disease--Effects of hypoxia and hypercapnia on developing nervous system (monkey, human).

P50HL-19187-02 0012 (SRC) MEIER, ROBERT C. Pediatric pulmonary SCOR--Hyaline membrane disease--Resource requirements, economic consequence of HMD and recurrent apnea.

P50HL-19187-02 0013 (SRC) STANOAERT, THOMAS A. Pediatric pulmonary SCOR--Hyaline membrane disease--Research resources core.

P50HL-19190-02 (SRC) NELSON, NICHOLAS M, MILTON S HERSHEY MEDICAL CTR, 500 UNIVERSITY DRIVE, HERSHEY, PA. Pulmonary SCOR--Pathophysiology, management of IRDS.

P50HL-19190-02 0001 (SRC) MAISELS, M JEFFREY. Pulmonary SCOR--Pathophysiology, management of IRDS--Core--Clinical research center (infants).

P50HL-19190-02 0002 (SRC) MAISELS, M JEFFREY. Pulmonary SCOR--Pathophysiology, management of IRDS--Core--Oemonstration and dissemination.

P50HL-19190-02 0003 (SRC) LAOOA, ROGER L. Pulmonary SCOR--Pathophysiology, management of IRDS--Type II cells--Regulation and differentiation (rat).

P50HL-19190-02 0004 (SRC) RANNELS, D EUGENE. Pulmonary SCOR--Pathophysiology, management of IRDS--Type II cells--Control of protein turnover (rabbit).

P50HL-19190-02 0005 (SRC) OAVIOSON, EUGENE A. Pulmonary SCOR--Pathophysiology, management of IRDS--Glycoproteins in mucous secretions (human, cattle).

P50HL-19190-02 0006 (SRC) BRENNAN, ROBERT W. Pulmonary SCOR--Pathophysiology, management of IRDS--Asphyxia--Respiratory control (dogs).

P50HL-19190-02 0007 (SRC) VANNUCCI, ROBERT C. Pulmonary SCOR--Pathophysiology, management of IROS--Asphyxia--Cerebral metabolism (dog, rat).

P50HL-19190-02 0008 (SRC) NELSON, NICHOLAS M. Pulmonary SCOR--Pathophysiology, management of IRDS--Hemodynamics and gas exchange--Determinants of hypotension (human, infant).

P50HL-19190-02 0009 (SRC) ULTMAN, JAMES S. Pulmonary SCOR--Pathophysiology, management of IRDS--Developing non-invasive neonatal pulmonary monitoring systems (rabbit, human).

R01HL-19195-03 (ENO) MORISHIGE, WALTER K, UNIVERSITY OF HAWAII AT MANOA, DEPARTMENT OF PHYSIOLOGY, HONOLULU, HAWAII. Hormonal regulation of lung function (rats).

R01HL-19202-03 (CVA) MUSTAFA, SYEO J, UNIVERSITY OF SOUTH ALABAMA, 307 UNIVERSITY BLVD, MOBILE, ALA. Adenosine, prostaglandins in relation to coronary flow (guinea pigs).

R01HL-19203-03 (SGYA) OILLARO, OAVIO H, UNIVERSITY OF WASHINGTON, DEPT OF SURGERY, SEATTLE, WASH. Surgical approach to congenital heart diseases (dogs, primates).

R01HL-19204-03 (AFY) FORSYTH, RALPH P, UNIVERSITY OF CALIFORNIA, 1315-MOFFITT HOSPITAL, SAN FRANCISCO,CALIF. Environmental factors in hypertension (Rhesus monkeys).

R01HL-19209-03 (CVB) SHARE, LEONARO, UNIVERSITY OF TENNESSEE, 894 UNION AVENUE, MEMPHIS, TENN. Role of AOH in experimental renal hypertension (dogs, rats).

R01HL-19216-03 (CVA) STRAUSS, HAROLO C, OUKE UNIVERSITY, BOX 3845, DURHAM, N C. Characterization of cardiac pacemaker activity (cat, dog, rabbit).

R01HL-19218-03 (CVA) MORETTI, RICHARO L, CHILDREN'S HOSPITAL, 51ST & GROVE STREETS, OAKLAND, CALIF. Local regulation of coronary flow by prostaglandins (rabbits).

R01HL-19223-03 (MET) RODWELL, VICTOR W, PURDUE UNIVERSITY, DEPARTMENT OF BIOCHEMISTRY, WEST LAFAYETTE, IND Control of cholesterogenesis in leukocytes and liver (rats, human)

R01HL-19225-02 (CVA) REIO, LYNNE M, CHILDREN'S HOSPITAL MED CTR, 300 LONGWOOD AVENUE, BOSTON, MASS Types and mechanims of pulmonary hypertension

R01HL-19225-02 0001 (CVA) REID, LYNNE M. Types and mechanims of pulmonary hypertension--Structural changes (human, animals)

R01HL-19225-02 0002 (CVA) REID, LYNNE M. Types and mechanims of pulmonary hypertension-Effect of aorto-pulmonary shunt (pigs)

R01HL-19225-02 0003 (CVA) REID, LYNNE M. Types and mechanims of pulmonary hypertension-Cardiopulmonary function in pigs and rats

R01HL-19225-02 0004 (CVA) REID, LYNNE M. Types and mechanims of pulmonary hypertension--Structural changes in human pulmonary circulation (human, animals).

R01HL-19226-03 (CVB) HANSEN, TIMOTHY R, UNIVERSITY OF HEALTH SCIENCES, 2020 WEST OGDEN AVENUE, CHICAGO, ILL Vascular smooth muscle in hypertension (rats).

R01HL-19229-02 (CVB) MULROW, PATRICK J, MEDICAL COLLEGE OF OHIO, C S 10008, TOLEDO, OHIO. Prostaglandins and hypertension (human, rats, dogs, rabbits).

R01HL-19232-03 (RAO) FORTUIN, NICHOLAS J, JOHNS HOPKINS HOSPITAL, 601 NORTH BROADWAY, BALTIMORE, MD. ECHO changes in wall motion with myocardial ischemia.

R01HL-19234-03 (BM) FREIMER, EARL H, MEDICAL COLLEGE OF OHIO, CALLER SERVICE 10008, TOLEDO, OHIO. Streptococci and heart-Cell-mediated cross-reaction (mice).

R01HL-19237-03 (PTHA) GEE, J BERNARO, YALE UNIVERSITY, 333 CEDAR STREET, NEW HAVEN, CONN Obstructive lung disease and alveolar macrophages (human, animals).

P01HL-19242-02 (HEPA) BERNE, ROBERT M, UNIVERSITY OF VIRGINIA, DEPT OF PHYSIOLOGY, CHARLOTTESVILLE, VA. Study of vascular smooth muscle.

P01HL-19242-02 0001 (HEPA) OOESSEY, RICHARO. Study of vascular smooth muscle--Energy metabolism and protein turnover in vascular smooth muscle (rats).

P01HL-19242-02 0002 (HEPA) HOLLOWAY, PETER W. Study of vascular smooth muscle--Vascular smooth muscle response to serum lipoproteins (rats).

P01HL-19242-02 0003 (HEPA) RUBIO, RAFAEL. Study of vascular smooth muscle--Vasoactive metabolites from vascular muscle and parenchymal tissue (animal).

P01HL-19242-02 0004 (HEPA) BROOKER, GARY. Study of vascular smooth muscle--Cyclic nucleotide metabolism in smooth muscle cultures (human, rats).

P01HL-19242-02 0006 (HEPA) OULING, BRIAN. Study of vascular smooth muscle--The contractile system of vascular smooth muscle (swine, rats).

P01HL-19242-02 0007 (HEPA) WESTFALL, THOMAS C. Study of vascular smooth muscle--NE release in and reactivity of vascular smooth muscle (animals).

P01HL-19242-02 0008 (HEPA) PEACH, MICHAEL J. Study of vascular smooth muscle--NE release in and reactivity of vascular smooth muscle (rats).

P01HL-19242-02 0009 (HEPA) SPERELAKIS, NICK. Study of vascular smooth muscle--Electrophysiology of vascular smooth muscle (rats, chick embryo).

R01HL-19246-03 (CVB) GROSSMAN, WILLIAM, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Regression of cardiac hypertrophy--Myocardial and renal (human).

R01HL-19248-03 (AFY) OAUBENSPECK, JOHN A, OARTMOUTH MEDICAL SCHOOL, DEPT OF PHYSIOLOGY, HANOVER, N H. Breathing pattern variation and mechanical influences.

R01HL-19250-03 (MET) MUESING, RICHARO A, GEORGE WASHINGTON UNIVERSITY, 2300 EYE STREET, N W, WASHINGTON, O C. Mechanism of plasma cholesterol esterification (human).

R01HL-19251-03 (CVB) ALEXANOER, NATALIE, UNIV OF SOUTHERN CALIFORNIA, 2025 ZONAL AVENUE, LOS ANGELES, CALIF. An index of sympathetic activity in hypertension (rats).

R01HL-19252-02 (PBC) FISCHER, GRACE M, BOCKUS RESEARCH INSTITUTE, 19TH ANO LOMBARD STREETS, PHILADELPHIA, PA. Vascular connective tissue--Role in atherosclerosis (rabbits).

R01HL-19255-03 (CVB) SEAMAN, GEOFFREY V, PROVIDENCE MEDICAL CENTER, 700 N E 47TH AVENUE, PORTLAND, OREG. Evaluation of diagnostic clinical hemorrheology (human).

R01HL-19256-03 (CVA) COX, ROBERT H, BOCKUS RESEARCH INSTITUTE, 19TH & LOMBARD STREETS, PHILADELPHIA, PA. Arterial baroreceptors in cardiovascular control (dogs).

R01HL-19257-03 (CVA) GALOSY, RICHARO A, UNIV OF TEXAS HLTH SCI CTR, 5323 HARRY HINES BOULEVARD, OALLAS, TEX. Cardiovascular adjustment to behavioral stress (dog).

P01HL-19259-03 (HEPA) HABER, EOGAR, MASSACHUSETTS GENERAL HOSP, FRUIT STREET, BOSTON, MASS. Oigoxin-specific antibody in human therapy.

P01HL-19259-03 0001 (HEPA) MARGOLIES, MICHAEL N. Digoxin-specific antibody in human therapy--Primary structure of monoclonal antibodies (rabbits).

P01HL-19259-03 0002 (HEPA) BURTON, JAMES A. Digoxin-specific antibody in human therapy--Chemical semi-synthesis of digoxin-specific antibody (rabbits).

P01HL-19259-03 0003 (HEPA) HABER, EOGAR. Digoxin-specific antibody in human therapy--Synthesis of dogoxin-specific antibody in continuous cell culture (human, sheep).

P01HL-19259-03 0004 (HEPA) SMITH, THOMAS W. Digoxin-specific antibody in human therapy--Oigitalis-specific antibodies pharmacological studies (human, dogs, sheep).

P01HL-19259-03 0006 (HEPA) HABER, EOGAR. Oigoxin-specific antibody in human therapy--Core.

R01HL-19267-02 (HEM) ABILOGAARO, CHARLES F, UNIV OF CALIFORNIA, DAVIS, 4301 X STREET, SACRAMENTO, CALIF. Serial comparative study of Von Willebrand's disease (human).

R01HL-19270-03 (HEM) JACKSON, CARL W, ST JUDE CHILOREN'S RES HOSP, 332 NORTH LAUDERDALE, MEMPHIS, TENN. Effects of erythropoiesis on platelets and hemostasis (rats).

R01HL-19272-03 (HEM) HOUGIE, CECIL, UNIV OF CALIFORNIA, SAN DIEGO, DEPT OF PATHOLOGY, M-012, LA JOLLA, CALIF. Studies on the Passovoy factor (human).

R01HL-19275-03 (CVA) WILLIAMS, PATRICIA B, EASTERN VIRGINIA MED SCHOOL, POST OFFICE BOX 1980, NORFOLK, VA. Characterization of collateral blood vessels (dogs).

R01HL-1927B-03 (HEM) COLLER, BARRY S, SUNY AT STONY BROOK OIV OF HEM, DEPARTMENT OF MEDICINE, STONY BROOK, N Y. Ristocetin induced platelet aggregation (human).

R01HL-19279-03 (CVB) KEM, DAVID C, UNIV OF OKLAHOMA HLTH SCI CTR, P O BOX 269D1, OKLAHDMA CITY, OKLA. Intracellular action of aldosterone in hypertension (human, rats).

R01HL-192B2-03 (HEM) KOSOW, DAVID P, REO CROSS BLOOD RES LAB, 9312 OLD GEORGETOWN RD, BETHESDA, MD. Regulation of the activation of human factor X.

R01HL-192B7-03 (CVB) MUIRHEAD, ERNEST E, BAPTIST MEMORIAL HOSPITAL, 899 MADISDN AVENUE, MEMPHIS, TENN. The antihypertensive function of the renal medulla (human, rats, rabbits).

R01HL-192B9-03 (RAD) LEHAN, PATRICK H, UNIVERSITY OF MISSISSIPPI, 25D0 NORTH STATE STREET, JACKSON, MISS. Assessment of infusion methods for myocardial mapping (dogs).

R01HL-1929B-03 (CVA) DAWSON, CHRISTOPHER A, VETERANS ADMINISTRATION CENTER, RESEARCH SERVICE - 151A, WOOD, WIS. Pulmonary hemodynamics (dogs, cats).

R01HL-19299-03 (CVA) WITTENBERG, BEATRICE A, ALBERT EINSTEIN COLL OF MED, 13DD MORRIS PARK AVENUE, BRONX, N Y. Myoglobin and oxygen supply to heart and muscle cells (rats, pigeons).

R01HL-19307-03 (BM) KAPLAN, EDWARD L, UNIVERSITY OF MINNESOTA, BOX 94 MAYO, MINNEAPOLIS, MINN. Problems in prevention of rheumatic heart disease (human).

R01HL-19316-03 (PTHA) RODEWALD, RICHARD D, UNIVERSITY OF VIRGINIA, GILMER HALL, CHARLOTTESVILLE, VA. Study of glomerular permeability (fish, turtle, frog, chordates, crustacea).

R01HL-19320-03 (PHY) SEVERS, WALTER B, PENNSYLVANIA STATE UNIVERSITY, DEPARTMENT OF PHARMACOLDGY, HERSHEY, PA. Angiotensin neuropharmacology--Relationship to sodium.

R01HL-19322-03 (HEM) MATSCHINER, JOHN T, UNIVERSITY OF NEBRASKA, 42ND AND DEWEY AVENUE, OMAHA, NEBR. Role of pituitary hormones in the action of vitamin K (rats).

R01HL-19323-03 (HEM) STEINER, MANFRED, MEMORIAL HOSPITAL, PROSPECT STREET, PAWTUCKET, R I. Studies of platelet microtubule protein.

R01HL-19324-02 (HEM) NATTA, CLAYTON L, COLUMBIA UNIVERSITY, 63D WEST 168TH STREET, NEW YORK, N Y. Mechanisms of the inhibition of sickling by DBA (human).

R01HL-19325-03 (PHRA) WELLS, JACK N, VANDERBILT UNIVERSITY, DEPARTMENT OF PHARMACOLOGY, NASHVILLE, TENN. Phosphodiesterase inhibition and muscle contraction.

R01HL-19331-03 (HEM) JONES, WARREN C, JR, UNIVERSITY OF VIRGINIA, DEPARTMENT OF CHEMISTRY, CHARLOTTESVILLE, VA. Hirudin isolation and utilization (leeches).

R01HL-19333-03 (HEM) BOGGS, DANE R, UNIVERSITY OF PITTSBURGH, TERRACE AND OESOTO STREETS, PITTSBURGH, PA. Hematopoietic chimerism (mice, monkey).

R01HL-19341-03 (RAD) SPENCER, MERRILL P, INST OF APPLIEO PHY & MED, 556 18TH AVENUE, SEATTLE, WASH. Ultrasonic detection of the atherosclerotic plaque.

R01HL-19343-03 (CVB) RANDALL, DAVID C, UNIVERSITY OF KENTUCKY, PHY & BIOPHYSICS DEPARTMENT, LEXINGTON, KY. Behavioral influences on cardiac contractility (monkeys).

R01HL-19350-02 (SGYB) RICHARDSON, PETER D, BROWN UNIVERSITY, BOX G, PROVIDENCE, R I. Prevention of thrombosis by applied electric fields (sheep).

R01HL-19352-03 (CVA) JOHNSON, CHARLES E, DUKE UNIVERSITY, POST OFFICE BDX 3823, DURHAM, N C. Respiratory heat and water loss in neonates.

P50HL-19362-02 (SRC) MC GILL, HENRY C, JR, UNIVERSITY OF TEXAS, 7703 FLOYO CURL ORIVE, SAN ANTONIO, TEX. A/S SCOR--Atherosclerosis in nonhuman primates.

P50HL-19362-02 0001 (SRC) MOTT, GLEN E. A/S SCOR--Atherosclerosis in nonhuman primates--Effects of infant nutrition on atherosclerosis (baboons).

P50HL-19362-02 0002 (SRC) MASORO, EDWARD J. A/S SCOR--Atherosclerosis in nonhuman primates--Infant caloric intake, adipose tissue development and atherosclerosis (baboon).

P50HL-19362-02 0003 (SRC) KRAEMER, DUANE C. A/S SCOR--Atherosclerosis in nonhuman primates--Heritability of characters related to atherosclerosis (baboons).

P50HL-19362-02 0004 (SRC) KRAEMER, DUANE C. A/S SCOR--Atherosclerosis in nonhuman primates--Selective breeding for characters related to atherosclerosis (baboons).

P50HL-19362-02 0005 (SRC) KRAEMER, DUANE C. A/S SCOR--Atherosclerosis in nonhuman primates--Hybridization to produce primate model of atherosclerosis (baboon, Rhesus).

P50HL-19362-02 0006 (SRC) ROGERS, WALTER R. A/S SCOR--Atherosclerosis in nonhuman primates--Effects of cigarette smoking on atherosclerosis (baboon).

P50HL-19362-02 0007 (SRC) ROGERS, WALTER R. A/S SCOR--Atherosclerosis in nonhuman primates--Behavior type, cigarette smoking and atherosclerosis (baboon).

P50HL-19362-02 0008 (SRC) JOHANSON, WALDEMAR G. A/S SCOR--Atherosclerosis in nonhuman primates--Lung structure and function in cigarette smoking (baboon).

P50HL-19362-02 0009 (SRC) MOTT, GLEN E. A/S SCOR--Atherosclerosis in nonhuman primates--Cholesterol metabolism and intestinal microflora (baboon).

P50HL-19362-02 0010 (SRC) SAMUELS, ALLAN I. A/S SCOR--Atherosclerosis in nonhuman primates--Antihypertensive therapy--Atherogenesis in experimental hypertension (baboon).

P50HL-19362-02 0011 (SRC) MITCHELL, DANIEL S. A/S SCOR--Atherosclerosis in nonhuman primates--Chronic hypertension induced by operant conditioning techniques (baboon).

P50HL-19362-02 0012 (SRC) MCGILL, HENRY C, JR. A/S SCOR--Atherosclerosis in nonhuman primates--Induction of chronic hypertension by salt loading (baboon).

P50HL-19362-02 0013 (SRC) MOTT, GLEN E. A/S SCOR--Atherosclerosis in nonhuman primates--Core laboratory--Lipid biochemistry (baboons).

P50HL-19362-02 0014 (SRC) COELHO, ANTHONY M. A/S SCOR--Atherosclerosis in nonhuman primates--Core laboratory--Behavior observation and manipulation (baboon).

P50HL-19362-02 0015 (SRC) MCGILL, HENRY C, JR. A/S SCOR--Atherosclerosis in nonhuman primates--Core laboratory--Pathology and morphometry (baboons).

P50HL-19362-02 0016 (SRC) CAREY, KENNETH D. A/S SCOR--Atherosclerosis in nonhuman primates--Core laboratory--Animal services (baboon).

P50HL-19362-02 0017 (SRC) MCMAHAN, C ALEX. A/S SCOR--Atherosclerosis in nonhuman primates--Core laboratory--Data management, statistical analysis.

R01HL-19366-03 (GMB) BANK, NORMAN, MONTEFIORE HOSP & MED CTR, 111 EAST 21D STREET, BRDNX, N Y. Renal Starling forces in experimental conditions (rats, rabbits).

R01HL-19370-03 (CVB) HARRIS, THOMAS R, VANDERBILT UNIVERSITY, B-3211, MEDICAL CENTER, NASHVILLE, TENN. Coronary capillary exchange--The effects of ischemia (dogs, sheep).

R01HL-19374-03 (CVB) MARSHALL, GARLAND R, WASHINGTON UNIVERSITY, 66D S EUCLIO, ST LOUIS, MO. Pharmacology of kinins in cardiovascular disease (rats, rabbits).

R01HL-1937B-03 (PTHA) BERKOFF, HERBERT A, UNIVERSITY HOSPITALS, 13DD UNIVERSITY AVENUE, MADISON, WIS. Relation of mitochondrial changes to cardiac failure (dogs, rats).

R01HL-19379-03 (PTHA) HOYT, RICHARD F, JR, BOSTON UNIVERSITY SCH OF MEDIC, 8D EAST CONCORO STREET, BOSTON, MASS. Characterization of small-granule cells in the lung (mammals).

R01HL-193B1-03 (EVR) FABRICANT, CATHERINE G, CORNELL UNIVERSITY, DEPARTMENT OF MICROBIOLOGY, ITHACA, N Y. Pathogenesis of viral induced atherosclerosis (human, chicken).

R01HL-19391-03 (CVA) YELLIN, EDWARD L, ALBERT EINSTEIN COLLEGE OF MED, 13D0 MDRRIS PARK AVENUE, BRONX, N Y. Dynamic determinants of left ventricular filling (dogs).

R01HL-19392-03 (BBCB) SEITER, CHARLES H, UNIV OF SOUTHERN CALIFORNIA, UNIVERSITY PARK, LOS ANGELES, CALIF. Spectroscopic studies of respiratory metalloproteins.

R01HL-19394-03 (MET) HUXTABLE, RYAN J, UNIVERSITY OF ARIZONA, DEPT OF PHARMACOLOGY, TUCSON, ARIZ. Biochemistry and regulation of taurine in the heart (rats, guinea pigs, cats).

R01HL-1939B-03 (CVA) ETTINGER, PHILIP O, NEW JERSEY MEOICAL SCHOOL, 100 BERGEN STREET, NEWARK, N J. Regional conduction abnormalities and arrhythmias (dogs).

R01HL-19399-02 (NTN) GAMBAL, DAVID, CREIGHTON UNIVERSITY, 2500 CALIFORNIA STREET, OMAHA, NEBR. Atherosclerosis--Early events and regression factors (rats).

R01HL-19406-03 (RAD) BERGUER, RAMON, WAYNE STATE UNIVERSITY, 540 EAST CANFIELO AVENUE, OETROIT, MICH. Grading of atherosclerosis by CW doppler ultrasound (human, dogs).

R01HL-19410-03 (AFY) WHIPP, BRIAN J, HARBOR GENERAL HOSPITAL, 1000 WEST CARSON STREET, TORRANCE, CALIF. Oynamic interrelations underlying exercise hyperpnea (human).

R01HL-19414-03 (SGYA) GOTT, VINCENT L, JOHNS HOPKINS HOSPITAL, 601 NORTH BROAOWAY, BALTIMORE, MD. Protection of myocardium during cardiac surgery (dogs, cats, human).

R01HL-19419-03 (SGYB) HORBETT, THOMAS A, UNIVERSITY OF WASHINGTON, DEPT OF CHEMICAL ENGR,, SEATTLE, WASH. Cellular interactions with foreign materials (mammals).

R01HL-19423-03 (CVA) BIRNBAUMER, LUTZ, BAYLOR COLLEGE OF MEOICINE, 12D0 MOURSUND AVENUE, HOUSTON, TEX. Catecholamine action on the heart (cats, rats).

R01HL-19425-03 (CVB) BOVE, ALFRED A, TEMPLE UNIVERSITY, 3400 N BROAD STREET, PHILAOELPHIA, PA. Cardiac function in hypertrophy (dog).

R01HL-1942B-03 (CVB) ANDERSON, GUNNAR H, JR, STATE UNIVERSITY HOSPITAL, 75D EAST ADAMS STREET, SYRACUSE, N Y. Role of angiotensin sensitivity in renin release (human).

R01HL-19429-03 (PTHA) STOSSEL, THOMAS P, MASSACHUSETTS GENERAL HOSPITAL, FRUIT STREET, BOSTON, MASS. Phagocytosis--Ingestion in alveiolar macrophages (rabbits).

R01HL-19430-03 (HED) LAYTON, WILLIAM M, JR, OARTMOUTH MEOICAL SCHOOL, OEPARTMENT OF ANATOMY, HANOVER, N H. Congenital heart malformations and situs inversus (mice).

R01HL-19431-03 (CVA) LIPPMANN, MORTON, NEW YORK UNIVERSITY, 550 FIRST AVENUE, NEW YORK, N Y. Regional mucociliary transport in the human lung.

R01HL-19449-03 (CVA) DANTZKER, DAVID R, UNIVERSITY OF MICHIGAN, 1405 EAST ANN STREET, ANN ARBOR, MICH. Gas exchange in acute respiratory failure.

R01HL-19451-03 (CVB) DODGE, HAROLD T, UNIVERSITY OF WASHINGTON, SCHOOL OF MEOICINE, SEATTLE, WASH. Functional characteristics of the left heart.

R01HL-19451-03 0001 (CVB) DODGE, HAROLD T. Functional characteristics of the left heart--Ventricular performance using epicardial radiopaque markers (human).

R01HL-19451-03 0003 (CVB) STEWART, DOUGLAS K. Functional characteristics of the left heart--Left ventricular segmental contraction (human, dogs).

R01HL-19451-03 0004 (CVB) BROWN, B GREG. Functional characteristics of the left heart--Quantitative coronary arteriography (human).

R01HL-19454-02 (CVB) CHIEN, SHU, COLUMBIA MEOICAL CENTER, 63D WEST 168 STREET, NEW YORK, N Y. Rheological factors in transport across arterial wall (dogs).

R01HL-19455-03 (PHY) JOYNER, WILLIAM L, UNIVERSITY OF NEBRASKA, 42NO ANO OEWEY, OMAHA, NEBR. Role of endothelial cells in vascular permeability (tissue culture).

R01HL-19456-03 (BBCA) SMITH, LINDA L, MEOICAL COLLEGE OF GEORGIA, OEPT CELL & MOLECULAR BIOLOGY , AUGUSTA, GA. Immunoglobulins associated with serum hyperviscosity (human).

R01HL-19459-03 (BBCB) POWNALL, HENRY J, METHOOIST HOSPITAL, MAIL STAT A-601 MEO OEPT, HOUSTON, TEX. Oynamics of atherogenesis and lipoprotein formation (human, rabbit).

R01HL-19460-03 (CVA) PINTO, JOHN G, UNIV OF CALIFORNIA, SAN OIEGO, MAIL COOE M-D05, LA JOLLA, CALIF. Mechanics of the papillary muscle and the left ventricle (cats, rabbits).

R01HL-19461-03 (CVA) COULSON, LORNE R, TEMPLE UNIVERSITY, 3400 N BROAO STREET, PHILAOELPHIA, PA. Myocardial energetics in hypertrophy and heart failure (rabbits).

R01HL-19463-02 (GMB) OKEN, DONALD E, VIRGINIA COMMONWEALTH UNIV, 1200 EAST BROAO STREET, RICHMONO, VA. Pathophysiology of acute renal failure (rats).

R01HL-19467-03 (CVB) BARGER, A CLIFFORD, HARVARD MEDICAL SCHOOL, 25 SHATTUCK STREET, BOSTON, MASS. Regulation of blood pressure (rats, dogs).

R01HL-19481-03 (BBCB) OLOFIELD, ERIC, UNIVERSITY OF ILLINOIS, DEPARTMENT OF CHEMISTRY, URBANA, ILL. High-field NMR studies of respiratory proteins (human, horse, fish, microbes)

R01HL-19485-03 (CVA) BRIGGS, F NORMAN, MEDICAL COLLEGE OF VIRGINIA, 1200 EAST BROAD STREET, RICHMOND, VA. Calcium uptake by normal and failed cardiac ATPase (dogs)

R01HL-19486-03 (CVB) HOOGKIN, BRIAN C, BIOMEDICAL RESEARCH INSTITUTE, 246 DEERING AVENUE, PORTLAND, MAINE. Dipole moment measurement of cardiac mass (rabbits, pigs).

R01HL-19487-03 (CVB) MOE, GORDON K, MASONIC MEDICAL RESEARCH LAB, 2150 BLEECKER STREET, UTICA, N Y. Cardiac actions of digitalis (dogs, cats).

R01HL-19488-03 (BMT) EISENTHAL, KENNETH B, COLUMBIA UNIVERSITY, BOX 616 HAVEMEYER HALL, NEW YORK, N Y. Picosecond laser studies of heme-proteins.

R01HL-19491-03 (BBCA) FISH, WAYNE W, MED UNIV OF SOUTH CAROLINA, DEPARTMENT OF BIOCHEMISTRY, CHARLESTON, S C. Mechanism of iron storage and mobilization by ferritin (horse).

R01HL-19514-03 (MCHA) DYCKES, DOUGLAS F, UNIVERSITY OF HOUSTON, 4800 CALHOUN, HOUSTON, TEX. Proteinase inhibitor model with clinical potential.

R01HL-19517-03 (PHRA) BURTON, JAMES A, MASSACHUSETTS GENERAL HOSPITAL, 32 FRUIT STREET, BOSTON, MASS. Synthesis of inhibitors for the study of renal renin (dogs, monkeys).

R01HL-19532-01 (BIO) STERN, ARNOLD, NEW YORK UNIVERSITY, DEPARTMENT OF PHARMACOLOGY, NEW YORK, N Y. Oxygen toxicity in the red cell (human).

R01HL-19537-03 (RAD) MILLER, JAMES G, WASHINGTON UNIVERSITY, SKINKER & LINDELL, ST LOUIS, MO. Detection of myocardial injury with ultrasound (dogs).

R01HL-19538-03 (MCHA) ALMQUIST, RONALD G, SRI INTERNATIONAL, 333 RAVENSWOOD AVENUE, MENLO PARK, CALIF. Synthesis of potential antihypertensive agents.

R01HL-19539-03 (PTHA) CAMPBELL, WALLACE G, JR, EMORY UNIVERSITY, 7D5 WOODRUFF MEMORIAL BLDG, ATLANTA, GA. Pathology of hypertensive-associated arteritis (rabbits).

R01HL-19567-03 (SSS) HACKETT, THOMAS P, MASSACHUSETTS GENERAL HOSPITAL, FRUIT STREET, BOSTON, MASS. Impact of emotion on coronary arteries (human).

R01HL-19568-03 (EXP) SHAPIRO, DAVID, UNIVERSITY OF CALIFORNIA, NEUROPSYCHIATRIC INSTITUTE, LOS ANGELES, CALIF. Hypertension--Analysis of drug and behavioral therapies (human).

R23HL-19573-01 (YIP) BOSIN, TALMAGE R, INDIANA UNIVERSITY, 306 MYERS HALL, BLOOMINGTON, IND. Studies on pulmonary serotonin (mice).

R23HL-19584-01 (YIP) GRANT, MARGARET M, HARVARD UNIVERSITY, 665 HUNTINGTON AVENUE, BOSTON, MASS. Alveolar macrophage responses to toxic particle exposure (guinea pigs, human).

R23HL-19594-01 (YIP) MANDEL, RICHARD, BOSTON UNIVERSITY SCH OF MED, 80 E CONCORD STREET, BOSTON, MASS. Tropocollagen and tropoelastin uptake in lung cells (human).

R23HL-19601-01 (GMB) BETTICE, JOHN A, CASE WESTERN RESERVE UNIV, 2119 ABINGTON ROAD, CLEVELAND, OHIO. Cardiac response to chronic metabolic acidosis (rats).

R23HL-19605-01 (YIP) VORE, MARY E, UNIVERSITY OF CALIFORNIA, DEPT OF PHARMACOLOGY, SAN FRANCISCO, CALIF. Lipid requirement of the lung mono-oxygenase system (rabbits).

R23HL-19619-01 (YIP) ABRAHAM, JERROLD L, UNIV OF CALIFORNIA, SAN DIEGO, SCHOOL OF MEDICINE, M-012, LA JOLLA, CALIF. Sem and x ray analysis in human pulmonary pathology.

R01HL-19628-03 (CVA) PARK, BYUNG H, CHILDREN'S HOSPITAL, 219 BRYANT STREET, BUFFALO, N Y. Mechanisms of pulmonary alveolar proteinoses (human, rats).

R01HL-19633-02 (SSS) CHVAPIL, MILOS, ARIZONA MEDICAL CENTER, DEPT OF SURGERY, TUCSON, ARIZ. Pathogenesis and pharmacology of lung fibrosis (rats, rabbits).

R01HL-19639-02 (PHY) SZABO, GABOR, UNIVERSITY OF TEXAS, DEPT OF PHYSIOLOGY & BIOPHYS, GALVESTON, TEX. Permeability transients of carriers, channels and heart.

R01HL-19644-03 (END) MULROW, PATRICK J, MEDICAL COLLEGE OF OHIO, C S 10008, TOLEDO, OHIO. Etiological factors in hypertension (human, dogs, rats).

R01HL-19646-03 (HEM) JAVID, JAMSHID, NEW YORK UNIVERSITY, 550 FIRST AVENUE, NEW YORK, N Y. An immunologic study of hemoglobin variation in man.

R01HL-19647-03 (SSS) KATZ, SIDNEY, RESEARCH INSTITUTE, 10 WEST 35 STREET, CHICAGO, ILL. Therapeutic aerosols.

R01HL-19648-03 (CVB) LESCH, MICHAEL, NORTHWESTERN UNIVERSITY, 303 EAST CHICAGO AVENUE, CHICAGO, ILL. Myocardial protein degradation (dogs, rabbits).

R01HL-19651-03 (PTHA) GLEZEN, WILLIAM P, BAYLOR COLLEGE OF MEDICINE, 1200 MOURSUND AVENUE, HOUSTON, TEX. Host factors in pathogenesis of respiratory disease (human, hamsters).

R01HL-19653-03 (PHRA) FREER, RICHARD J, MEDICAL COLLEGE OF VIRGINIA, MCV STATION, RICHMOND, VA. Circulatory system effects of angiotensin analogs (rats).

R01HL-19654-03 (BIO) PROUGH, RUSSELL A, UNIVERSITY OF TEXAS, 5323 HARRY HINES BLVD, DALLAS, TEX. Biochemical-pharmacological evaluation of lung cells (rabbits).

R01HL-19668-03 (SSS) BHATNAGAR, RAJENDRA S, UNIVERSITY OF CALIFORNIA, SCH OF DENTISTRY--630 SCIENCES, SAN FRANCISCO, CALIF. Biochemistry of lung connective tissue (rats).

R01HL-19669-03 (SSS) WEINHOLD, PAUL A, UNIVERSITY OF MICHIGAN, 3D14 ADMINISTRATION BUILDING, ANN ARBOR, MICH. Lung organ culture and surfactant biosynthesis (adult and fetal rats).

R01HL-19673-03 (SGYA) BAUE, ARTHUR E, YALE UNIVERSITY, 333 CEDAR STREET, NEW HAVEN, CONN. Surgical aspects of shock and hypoxia (dogs, monkeys, rats).

R01HL-19674-02 (CVA) FRIEDMAN, JULIUS J, INDIANA UNIVERSITY, 1100 WEST MICHIGAN STREET, INDIANAPOLIS, IND. Electrolyte permeability of single capillaries (frogs).

R01HL-19675-02 (RAD) BOOKSTEIN, JOSEPH J, UNIVERSITY OF CALIFORNIA, 225 WEST DICKINSON STREET, SAN DIEGO, CALIF. Coronary pharmacoangiography

R01HL-19676-02 (CVA) KING, RICHARD J, UNIVERSITY OF TEXAS, 7703 FLOYD CURL DRIVE, SAN ANTONIO, TEX. Physico-chemical interactions in pulmonary surfactant

R01HL-19677-03 (CVB) MORRIS, THOMAS W, UNIV OF ROCHESTER MEDICAL CTR, DIAGNOSTIC RADIOLOGY BOX 648, ROCHESTER, N Y. Venous structure and function (dogs)

R01HL-19678-01 (CVA) BAKER, LEE E, UNIVERSITY OF TEXAS, AUSTIN, TEX. Quantification of intrathoracic fluid by impedance (human, dogs)

R01HL-19680-01 (EXP) LAWLER, JAMES E, UNIVERSITY OF TENNESSEE, DEPARTMENT OF PSYCHOLOGY, KNOXVILLE, TENN. Cardiac correlates of behavioral stress in animals (dog)

R01HL-19684-03 (SSS) ROSE, GEORGE G, UNIV OF TEXAS HLTH SCI CTR, 6516 JOHN FREEMAN AVENUE, HOUSTON, TEX. Histotypic lung culture in circumfusion systems (mice).

R01HL-19685-03 (SSS) CASTOR, C WILLIAM, UNIVERSITY OF MICHIGAN, R4633 KRESGE MED RES BLDG, ANN ARBOR, MICH. Pathogenesis of inflammation of the lung (guinea pigs).

R01HL-19700-03 (SSS) WANG, CHIU-SEN, SYRACUSE UNIVERSITY, 232 HINDS HALL, SYRACUSE, N Y. Deposition of hygroscopic aerosols (models)

R01HL-19704-03 (SSS) WILSON, ARCHIE F, UNIV OF CALIFORNIA, IRVINE, 101 CITY DRIVE SOUTH, ORANGE, CALIF. Aerosol therapy (models, dogs, human).

R01HL-19711-03 (SSS) YOSHIDA, TAKESHI, UNIVERSITY OF CONNECTICUT, DEPARTMENT OF PATHOLOGY, FARMINGTON, CONN. Lymphokines in pulmonary granulomas (guinea pigs).

R01HL-19715-02 (SSS) SWIFT, DAVID L, JOHNS HOPKINS UNIVERSITY, 615 NORTH WOLFE STREET, BALTIMORE, MD. Respiratory tract deposition of hygroscopic aerosols (dogs, human).

P01HL-19717-02 (HEPA) FRANZBLAU, CARL, BOSTON UNIVERSITY, 80 EAST CONCORD STREET, BOSTON, MASS. Response of the lung to injury

P01HL-19717-02 0001 (HEPA) FRANZBLAU, CARL. Response of the lung to injury--Lung elastic tissue (animals).

P01HL-19717-02 0002 (HEPA) GONNERMAN, WAYNE. Response of the lung to injury--Prolyl hydroxylase, lysyl hydroxylase and lung collagen biosynthesis (rabbits).

P01HL-19717-02 0003 (HEPA) STONE, PHILIP J. Response of the lung to injury--The role of elastolysis in emphysema (hamsters, rabbits).

P01HL-19717-02 0004 (HEPA) KAGAN, HERBERT M. Response of the lung to injury--Regulatory and physical-chemical properties of lung lysyl oxidase (animals).

P01HL-19717-02 0005 (HEPA) KAGAN, HERBERT M. Response of the lung to injury--Studies on proteolysis and lung disease (human, animals).

P01HL-19717-02 0006 (HEPA) SCHMID, KARL. Response of the lung to injury--Glycosaminoglycans and proteoglycans of the lung (human, rats, hamsters).

P01HL-19717-02 0007 (HEPA) POLGAR, PETER. Response of the lung to injury--Cellular level studies of prostaglandin-like molecules (cattle).

P01HL-19717-02 0008 (HEPA) SNIDER, GORDON L. Response of the lung to injury--Experimental models of lung disease.

P01HL-19717-02 0009 (HEPA) KARLINSKY, JOEL B. Response of the lung to injury--Time-dependent mechanical properties of lung connective tissues (hamsters).

P01HL-19717-02 0010 (HEPA) KARLINSKY, JOEL B. Response of the lung to injury--Proteoglycans in lung function and structure (hamsters).

P01HL-19717-02 0011 (HEPA) KARLINSKY, JOEL B. Response of the lung to injury--Physiological characterization of the elastase model (hamsters).

P01HL-19717-02 0012 (HEPA) KARLINSKY, JOEL B. Response of the lung to injury--Connective tissue biochemistry and enzyme injury of the lung (hamsters).

P01HL-19717-02 0013 (HEPA) SNIDER, GORDON L. Response of the lung to injury--Handling of biologically active substances by the diseased lung (guinea pigs).

P01HL-19717-02 0014 (HEPA) SNIDER, GORDON L. Response of the lung to injury--Stereology of epithelialized bronchi in evolving elast emphysema (hamsters).

P01HL-19717-02 0015 (HEPA) SNIDER, GORDON L. Response of the lung to injury--Chronic bronchitis and emphysema (hamsters).

P01HL-19717-02 0016 (HEPA) CENTER, DAVID. Response of the lung to injury--The alveolar macrophage in elastase emphysema (guinea pigs, hamsters).

P01HL-19717-02 0018 (HEPA) SNIDER, GORDON L. Response of the lung to injury--Lung mechanics and connective tissue composition in human emphysema.

P01HL-19717-02 0019 (HEPA) SNIDER, GORDON L. Response of the lung to injury--Animal model of fibrosing alveolitis (hamsters, guinea pigs, rabbits).

P01HL-19717-02 0020 (HEPA) SNIDER, GORDON L. Response of the lung to injury--Recording of lung sounds in animal models of disease (animals).

P01HL-19717-02 0021 (HEPA) SNIDER, GORDON L. Response of the lung to injury--Gallium lung scans in fibrosing alveolitis (hamsters).

P01HL-19717-02 0022 (HEPA) ALBRIGHT, JOHN T. Response of the lung to injury--Localization of enzymes and sites of action in experimental emphysema (hamsters).

P01HL-19717-02 0023 (HEPA) BRODY, JEROME S. Response of the lung to injury--Postnatal lung development--Cells, connective tissue and physiology (animals).

P01HL-19717-02 0024 (HEPA) BRODY, JEROME S. Response of the lung to injury--Formation of lung alveoli (rats).

P01HL-19717-02 0025 (HEPA) BRODY, JEROME S. Response of the lung to injury--Role of oxygen in regulation of lung growth and development (rats).

P01HL-19717-02 0026 (HEPA) BRODY, JEROME S. Response of the lung to injury--Protein depletion and postnatal lung development (rats).

P01HL-19717-02 0027 (HEPA) BRODY, JEROME S. Response of the lung to injury--Hormone control of lung growth and development (rats).

P01HL-19717-02 0028 (HEPA) BRODY, JEROME S. Response of the lung to injury--Compensatory growth of the lung following pneumonectomy (rabbits).

P01HL-19717-02 0037 (HEPA) MATHE, ALEKSANDER A. Response of the lung to injury--Catecholamines, prostaglandins and nucleotides in pulmonary function (animals).

P01HL-19717-02 003B (HEPA) GAENSLER, EDWARD A. Response of the lung to injurye-Interstitial lung disease--Clinical, pathologic and epidemiologic.

P01HL-19717-02 0039 (HEPA) GAENSLER, EDWARD A. Response of the lung to injury--Lung scanning in alveolitis and asbestolic interstitial pneumonia (human, animal).

P01HL-19717-02 0040 (HEPA) GAENSLER, EDWARD A. Response of the lung to injury--Immunosuppressive drugs in usual interstitial pneumonia (human).

P01HL-19717-02 0041 (HEPA) GAENSLER, EDWARD A. Response of the lung to injury--Cellular immunity in interstitial lung disease (human).

P01HL-19717-02 0043 (HEPA) GAENSLER, EDWARD A. Response of the lung to injury--Asbestosis as a model of usual interstitial pneumonia (human).

P01HL-19717-02 0044 (HEPA) MURPHY,. Response of the lung to injury--Lung sound analysis (human).

P01HL-19717-02 004S (HEPA) FRANZBLAU, CARL. Response of the lung to injury--Ultrasound studies (human, hamsters).

P01HL-19717-02 0046 (HEPA) GAENSLER, EDWARD A. Response of the lung to injury--Bioengineering section.

R01HL-19720-03 (SSS) GIRI, SHRI N, UNIVERSITY OF CALIFORNIA, DEPT OF PHYSIOLOGICAL SCIENCES, DAVIS, CALIF. Evaluation of anti-fibrotic agents in pulmonary fibrosis (rats).

R01HL-19721-03 (SSS) WEISSMANN, GERALD, NEW YORK UNIVERSITY, 550 FIRST AVENUE, NEW YORK, N Y. Lung inflammation--Lysosomal proteases and liposomes (human, rabbits).

R01HL-19722-03 (SSS) WISSLER, EUGENE H, UNIVERSITY OF TEXAS, DEPT OF CHEM ENGINEERING, AUSTIN, TEX. Aerosol growth in the respiratory system (models).

R01HL-1972S-03 (SSS) JACOB, HARRY S, UNIV OF MINNESOTA HOSPS, MAYO BOX 48D, MINNEAPOLIS, MINN. Complement induced pulmonary injury (dogs, rabbits, sheep).

R01HL-19731-03 (SSS) KANG, ANDREW H, RESEARCH SERVICE, 1D3D JEFFERSON AVENUE, MEMPHIS, TENN. Collagen in interstitial fibrosis of lung (human).

R01HL-19732-03 (SSS) BOROS, DOV L, WAYNE STATE UNIVERSITY, 540 E CANFIELD, DETROIT, MICH. Lymphokines in pulmonary granulomatous inflammation (mice).

R01HL-19733-03 (SSS) DAWSON, CHRISTOPHER A, VETERANS ADMINISTRATION CENTER, RESEARCH SERVICE - 151A, WOOD, WIS. Absorption of antigen through inflamed lungs (rabbits).

P01HL-19737-02 (HEPA) FORSTER, ROBERT E, UNIVERSITY OF PENNSYLVANIA, DEPARTMENT OF PHYSIOLOGY, PHILADELPHIA, PA. Cellular and molecular aspects of respiratory physiology.

P01HL-19737-02 0001 (HEPA) FISHER, ARON B. Cellular and molecular aspects of respiratory physiology--Fatty acid metabolism in type II alveolar cells (rats).

P01HL-19737-02 0002 (HEPA) ARONSON, J F. Cellular and molecular aspects of respiratory physiology--Airway smooth muscle in health and disease (human, animals).

P01HL-19737-02 0003 (HEPA) ARONSON, J F. Cellular and molecular aspects of respiratory physiology--Cortisol-dependent alterations in lung type II cells (rats).

P01HL-19737-02 0004 (HEPA) FORSTER, ROBERT E. Cellular and molecular aspects of respiratory physiology--Rapid reactions and erythrocyte exchanges of blood during respiratory transport.

P01HL-19737-02 0005 (HEPA) CRANDALL, EDWARD D. Cellular and molecular aspects of respiratory physiology--Interaction of respiratory exchanges and blood gas parameters (human, animals).

P01HL-19737-02 0006 (HEPA) DELIVORIA-PAPADOPULOS, MARIA . Cellular and molecular aspects of respiratory physiology--Tissue oxygenation and mitochondrial respiratory activity (sheep).

P01HL-19737-02 0007 (HEPA) FORSTER, ROBERT E. Cellular and molecular aspects of respiratory physiology--Average oxygen tension of tissue using radioisotopes (dogs).

P01HL-19737-02 000B (HEPA) FORSTER, ROBERT E. Cellular and molecular aspects of respiratory physiology--Kinetics of movement of acid metabolites from cell to capillary blood (dogs).

P01HL-19737-02 0009 (HEPA) COBURN, RONALD F. Cellular and molecular aspects of respiratory physiology--Regulation of tissue oxygen tension and body carbon monoxide stores (human, dogs).

P01HL-19737-02 0010 (HEPA) CRANDALL, EDWARD D. Cellular and molecular aspects of respiratory physiology--Effects of pulsatile flow and volume on capillary exchanges (dogs, rats).

P01HL-19737-02 0011 (HEPA) LAHIRI, SUKHAMAY. Cellular and molecular aspects of respiratory physiology--Chemical and metabolic factors on peripheral chemoreceptor activity (cats).

P01HL-19737-02 0012 (HEPA) ITADA, NOBUTOMO. Cellular and molecular aspects of respiratory physiology--Mass spectrometer facility.

P01HL-19737-02 0013 (HEPA) STOREY, BAYARD T. Cellular and molecular aspects of respiratory physiology--Cell metabolism analytical facility.

P01HL-19737-02 0014 (HEPA) KLEINZELLER, ARNOST. Cellular and molecular aspects of respiratory physiology--Cell separation facility.

P01HL-19737-02 0015 (HEPA) FORSTER, ROBERT E. Cellular and molecular aspects of respiratory physiology--Administrative core unit.

R01HL-19741-03 (SSS) CASSELL, GAIL H, UNIVERSITY OF ALABAMA, UNIVERSITY STATION, BIRMINGHAM, ALA. Murine CRD--A model of chronic pulmonary inflammation (mice, rats).

R01HL-19746-03 (SSS) LIN, HSIU-SAN, WASHINGTON UNIVERSITY, 660 SOUTH EUCLID, ST LOUIS, MO. Proliferation and differentiation of alveolar macrophages (mice, hamsters).

R01HL-1975Z-03 (SSS) GROSS, IAN, DEPARTMENT OF PEDIATRICS, 333 CEDAR STREET, NEW HAVEN, CONN. Phospholipid synthesis by fetal lung in organ culture (rats).

R01HL-19760-01 (BM) RICHARDS, N MARK, DEPARTMENT OF MEDICINE, BOX 6998, CHICAGO, ILL. Cellular immune responses of the lung.

R01HL-19767-01 (HEM) SHAINOFF, JOHN R, LTHE CLEVELAND CLINIC FDN, RESEARCH DIVISION, CLEVELAND, OHID. Pathochemistry of fibrinogen (humans).

R01HL-19768-02 (CVA) FLOWERS, NANCY C, UNIVERSITY OF LOUISVILLE, 323 EAST CHESTNUT, LOUISVILLE, KY. Recording and analysis of low levels cardiac signals (human, dogs).

R01HL-19772-02 (PHRA) FASCO, MICHAEL J, NEW YORK DEPARTMENT OF HEALTH, EMPIRE STATE PLAZA, ALBANY, N Y. Role of warfarin metabolism in antivitamin K activity (rats).

R01HL-19774-03 (SSS) COLLINS, FRANK M, TRUDEAU INSTITUTE, INC, POST OFFICE BOX 59, SARANAC LAKE, N Y. Pathogenesis of chronic lung disease (rats, mice, bacteria).

R01HL-19777-03 (SSS) GOETZL, EDWARD J, ROBERT B BRIGHAM HOSPITAL, 125 PARKER HILL AVENUE, BOSTON, MASS. Regulation of hypersensitivity in the lung (rats, guinea pigs, rabbits, human).

R01HL-19779-03 (SSS) BAEHNER, ROBERT L, J W RILEY HOSP FOR CHILDREN, 11DD WEST MICHIGAN STREET, INDIANAPOLIS, IND. Biochemical basis of oxygen damage to lung cells (guinea pigs, rats).

R01HL-197B2-02 (PHRA) LUCCHESI, BENEDICT R, UNIVERSITY OF MICHIGAN, M6322 MEDICAL SCIENCE BLDG I, ANN ARBOR, MICH. Pharmacologic studies on the ischemic heart (dogs).

R01HL-19791-02 (RAD) HODSON, CECIL J, YALE UNIVERSITY, 333 CEDAR STREET, NEW HAVEN, CONN. Ultrasonic monitoring visceral blood vessels.

R01HL-1979S-03 (SSS) ERICKSON, BRUCE W, ROCKEFELLER UNIVERSITY, 1230 YORK AVENUE, NEW YORK, N Y. Synthesis of anaphylatoxic and leucotactic peptides (human).

R01HL-19806-03 (SSS) LYNN, WILLIAM S, DUKE UNIVERSITY, POST OFFICE BOX 3711, DURHAM, N C. Chemotactic control of airway phagocytes (human, rabbits).

R01HL-1981B-02 (SGYB) ARCHER, GORDON L, VIRGINIA COMMONWEALTH UNIV, POST OFFICE BOX 92, RICHMOND, VA. Endocarditis on prosthetic heart valves (rabbits, human).

R01HL-19B19-03 (SSS) WILLOUGHBY, WILLIAM F, JOHNS HOPKINS HOSPITAL, 6D1 NORTH BROADWAY, BALTIMORE, MD. Mitogen induced interstitial pneumonitis (rabbits).

R01HL-19820-02 (P8C) CIFONELLI, J ANTHONY, UNIVERSITY OF CHICAGO, 5825 SOUTH MARYLAND AVENUE, CHICAGO, ILL. The chemistry and biological effects of heparin (Rhesus, human, other mammals).

R01HL-19B24-02 (COM) HELLUMS, JESSE D, RICE UNIVERSITY, POST OFFICE BOX 1892, HOUSTON, TEX. Mass transfer in the microcirculation.

R01HL-1982S-02 (CVB) BAGBY, SUSAN P, PORTLAND VA HOSPITAL, SAM JACKSON PARK, PORTLAND, OREG. Renin-volume interactions in coarctation hypertension (dogs).

R01HL-19B27-02 (CVA) BARTLETT, DONALD, JR, DARTMOUTH MEDICAL SCHOOL, PHYSIOLOGY DEPARTMENT, HANOVER, N H. Role of the upper airways in the control of breathing (human, cats, dogs).

R01HL-19B29-02 (AFY) OTIS, ARTHUR B, UNIVERSITY OF FLORIDA, BOX J-274, JHMHC, GAINESVILLE, FLA. Power output of breathing (human).

R01HL-19B30-02 (CVB) HOLLIS, THEODORE M, PENNSYLVANIA STATE UNIVERSITY, 416 LIFE SCIENCE I, UNIVERSITY PARK, PA. Shear to aortic histamine synthesis and permeability (dogs).

R01HL-19B36-03 (SSS) GOODFRIEND, THEODORE L, VETERANS ADMIN HOSPITAL, 2500 OVERLOOK TERRACE, MADISON, WIS. Kinin inhibitors detected by use of receptors (cattle).

R01HL-19B39-09 (SSS) PAFFENBARGER, RALPH S, JR, BEHS, 101 HAVILAND HALL, UNIVERSITY OF CALIFORNIA, BERKELEY, CALIF. Factors in youth predisposing to chronic diseases (former college students).

R01HL-19844-02 (SSS) ZEINER, ARTHUR R, UNIVERSITY OF OKLAHOMA, POST OFFICE BOX 26901, OKLAHOMA CITY, OKLA. Behavioral control of essential hypertension (human).

R01HL-19B48-02 (CVA) LINDLEY, BARRY D, CASE WESTERN RESERVE UNIV, 2119 ABINGTON ROAD, CLEVELAND, OHIO. Contractile activation by rapid temperature jumps (frogs).

R01HL-19B58-03 (TEC) WATSON, ROBERT L, UNIVERSITY OF MISSISSIPPI, 2500 NORTH STATE STREET, JACKSON, MISS. UMMC--Blood pressure precursors and consequences (human).

R01HL-198S9-03 (TEC) VAN DEN BERG, BARBARA J, UNIVERSITY OF CALIFORNIA, SCHOOL OF PUBLIC HEALTH, BERKELEY, CALIF. Epidemiological studies, precursors of hypertension (human).

R01HL-19B64-03 (TEC) KULLER, LEWIS H, UNIVERSITY OF PITTSBURGH, A-710 CRABTREE HALL, PITTSBURGH, PA. Blood pressure of children and young adults.

R01HL-19864-03 0001 (TEC) ROGERS, KENNETH. Blood pressure of children and young adults--Follow up of students from Dormont, Pennsylvania.

R01HL-19864-03 0002 (TEC) DETRE, KATHERINE. Blood pressure of children and young adults--Data epidemiology center.

R01HL-19864-03 0003 (TEC) SCHACHTER, JOSEPH. Blood pressure of children and young adults--Heart rate and blood pressure--Consistency in infancy (human).

R01HL-19869-03 (TEC) KATZ, SOLOMON H, 1 CHILDREN CENTER, 34TH ST AND CIVIC CENTER BLVD , PHILADELPHIA, PA. Antecedents of adolescent hypertension (human).

R01HL-19870-03 (TEC) HOHN, ARNO R, MEDICAL UNIV OF SOUTH CAROLINA, 8D BARRE STREET, CHARLESTON, S C. Hypertensive progeny--Physical and humoral precursor search.

R01HL-19873-03 (IMB) RICHERSON, HAL B, UNIVERSITY HOSPITALS, DEPT OF INTERNAL MEDICINE, IOWA CITY, IOWA. Pulmonary responses to inhaled antigen (rabbits, guinea pigs).

R01HL-19B77-02 (EDC) PRINEAS, RONALD J, UNIVERSITY OF MINNESOTA, STADIUM GATE 27, MINNEAPOLIS, MINN. Prevention of high blood pressure in children.

R01HL-19B98-03 (SSS) HILGARTNER, MARGARET W, NEW YORK HOSP-CORNELL MED CTR, 525 EAST 68TH STREET, NEW YORK, N Y. Desferrioxamine therapy in thalassemia (dogs, rats, children).

R01HL-19922-03 (TEC) ELLISON, ROBERT C, CHILDREN'S HOSPITAL MED CTR, 300 LONGWOOD AVENUE, BOSTON, MASS. Childhood determinants of blood pressure.

R01HL-19929-03 (TEC) BAER, PAUL E, BAYLOR COLLEGE OF MEDICINE, 1200 MOURSUND AVENUE, HOUSTON, TEX. High blood pressure in the young, prevalence and precursors (human).

R01HL-19930-03 (TEC) GELBAND, HENRY, UNIVERSITY OF MIAMI, P O BOX 520875, MIAMI, FLA. A prospective study--Blood pressure in newborn twins.

R01HL-19933-02 (HEM) FAIRBANKS, GRANT, WORCESTER FDN/EXP BIOLOGY, INC, 222 MAPLE AVENUE, SHREWSBURY, MASS. Membrane and red cell dysfunction in hemolytic anemia (human).

R01HL-19936-02 (NTN) HOLLOWAY, CAROLINE T, UNIVERSITY OF VIRGINIA, BIOCHEMISTRY DEPARTMENT, CHARLOTTESVILLE, VA. Unsaturated fatty acid biosynthesis in the aorta (rats).

R01HL-19937-02 (CVA) BECKER, LEWIS C, JOHNS HOPKINS HOSPITAL, 601 NORTH BROADWAY, BALTIMORE, MD. Vasodilators in experimental myocardial infarction (dogs).

R01HL-19946-03 (SSS) PIOMELLI, SERGIO, NEW YORK UNIVERSITY, 55D FIRST AVENUE, NEW YORK, N Y Reduction of iron overload in thalassemia (children, rabbits, dogs, monkeys)

R01HL-19956-03 (TEC) KOTCHEN, JANE M, UNIVERSITY OF KENTUCKY, DEPT OF COMMUNITY MEDICINE, LEXINGTON, KY High blood pressure in the young (human)

R01HL-19961-03 (SSS) PEARSON, HOWARD A, YALE UNIVERSITY, 333 CEDAR STREET, NEW HAVEN, CONN Management of hemosiderosis in thalassemia (children, adults)

R01HL-19962-03 (TEC) HIGGINS, MILLICENT W, UNIVERSITY OF MICHIGAN, 109 OBSERVATORY STREET, ANN ARBDR, MICH High blood pressure in young people in Tecumseh

R01HL-19973-01 (BBCA) HIRKO, ROBERT J, MEMPHIS STATE UNIVERSITY, ELECTRICAL ENGINEERING DEPT, MEMPHIS, TENN Non-invasive sickled cell monitor development (human).

R01HL-19974-02 (EXP) WEISS, JAY M, ROCKEFELLER UNIVERSITY, 1230 YORK AVENUE, NEW YORK, N Y Psychologic-behavioral influences on heart pathology (rats).

R01HL-19975-02 (CMS) FINK, B RAYMOND, UNIVERSITY OF WASHINGTON, RN-1D BB1469 HSB, SEATTLE, WASH Laryngeal biomechanics in pulmonary therapy (primates).

R01HL-19977-02 (CVB) GOLDFARB, ROY D, ALBANY MED COLL OF UNION UNIV, 47 NEW SCOTLAND AVENUE, ALBANY, N Y. Genesis of circulatory shock by pancreatic peptides (cats, dogs).

R01HL-19982-02 (BBCA) CASTELLINO, FRANCIS J, UNIVERSITY OF NOTRE DAME, DEPARTMENT OF CHEMISTRY, NOTRE DAME, IND. Blood coagulation--Protein-metal ion-lipid interactions.

R01HL-19984-02 (TEC) MATHEWS, JOHN D, UNIVERSITY OF MELBOURNE, MEDICINE DEPARTMENT, VICTORIA, AUSTRALIA. Blood pressure and immunogenetic factors in the young (human).

R01HL-19993-02 (SGYB) ISHIMARU, AKIRA, UNIVERSITY OF WASHINGTON, 211 ELECTRICAL ENGR BLDG FT-10, SEATTLE, WASH. Optical detection of platelet aggregates (human, baboons).

R01HL-19995-02 (PHY) CHAPMAN, KENT M, BROWN UNIVERSITY, BOX G, PROVIDENCE, R I. Sensory transduction in cardiac mechanoreceptors (cats, frogs, rats).

R01HL-19996-02 (HEM) GEORGE, JAMES N, UNIVERSITY OF TEXAS, 77D3 FLOYD CURL DRIVE, SAN ANTONIO, TEX. Role of membrane proteins in platelet function (human, rabbits).

R01HL-19997-02 (CVB) CHAPNICK, BARRY M, TULANE UNIVERSITY, 143D TULANE AVENUE, NEW ORLEANS, LA. Prostaglandin precursors and intestinal vasculature (cats, rabbits).

R01HL-20000-03 (SSS) NATHAN, DAVID G, CHILDREN'S HOSPITAL, 3DD LONGWOOD AVENUE, BOSTON, MASS. Iron overload in homozygous beta thalassemia (human).

R01HL-20002-03 (SSS) MILLER, MICHAEL E, HARBOR GENERAL HOSPITAL, 10DD CARSON STREET, BLDG E-6, TORRANCE, CALIF. Pulmonary complications of viral infections (children).

R01HL-20005-03 (TEC) PHILLIPS, ROLAND L, LOMA LINDA UNIVERSITY, SCHOOL OF HEALTH, LOMA LINDA, CALIF. Factors in blood pressure levels of children.

R01HL-20014-02 (HEM) CHEN, JAMES P, UNIVERSITY OF TENNESSEE, 1924 ALCOA HIGHWAY, KNOXVILLE, TENN. Radioimmunoassay of hyper and hypocoagulable states (rabbits).

R01HL-20016-03 (SSS) CERAMI, ANTHONY, ROCKEFELLER UNIVERSITY, 123D YORK AVENUE, NEW YDRK, N Y. Chelator development for thalassemia (human, mice, rats, dogs, monkeys).

R01HL-20024-03 (SSS) HILLER, F CHARLES, UNIVERSITY OF ARKANSAS, 4301 WEST MARKHAM STREET, LITTLE ROCK, ARK. Therapeutic aerosols--Characteristics and retention (human, dogs).

R01HL-20034-03 (TEC) GRIM, CLARENCE E, INDIANA UNIVERSITY, 11DO WEST MICHIGAN STREET, INDIANAPDLIS, IND. Hypertension--Psychophysiologic and genetic precursors (human).

R01HL-20037-02 (SGYB) BERNHARD, WILLIAM F, CHILDREN'S HOSPITAL MED CTR, 300 LONGWOOD AVENUE, BOSTON, MASS. Left ventricular-aortic bypass and composite prosthesis (sheep, swine, cattle).

R01HL-20054-02 (CVB) GIMBRONE, MICHAEL A, JR, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BDSTON, MASS. Cultured blood vessel cells--Pathophysiology (human, animals).

R01HL-20061-02 (MET) GWYNNE, JOHN T, UNIVERSITY OF NORTH CAROLINA, DEPARTMENT DF MEDICINE, CHAPEL HILL, N C. Serum lipoproteins and cell cholesterol metabolism (rats, human).

R01HL-20063-03 (SSS) KITE, JOSEPH H, JR, S U N Y - AT BUFFALO, 3435 MAIN STREET, BUFFALO, N Y. Pathogenesis of pulmonary mycoplasma infections (guinea pigs, mice).

R01HL-20070-02 (SSS) CASKEY, CHARLES T, BAYLOR COLLEGE DF MEDICINE, 12DD MOURSUND AVENUE, HOUSTON, TEX. Alpha-1-antitrypsin deficiency (human, hamsters).

R01HL-20073-02 (SGYB) PREDECKI, PAUL K, UNIVERSITY OF DENVER, SPACE SCIENCES BUILDING, DENVER, COLO. Blood compatible materials by fluid perfusion (human, dogs).

R01HL-20074-02 (HEM) NIEHAUS, WALTER G, JR, VA POLYTECH INST & ST UNIV, DEPT BIOCHEMISTRY & NUTRITION , BLACKSBURG, VA. Structure and function of amidinated human hemoglobin.

R01HL-20077-02 (SSS) ZOLL, PAUL M, BETH ISRAEL HOSPITAL, 33D BRDOKLINE AVENUE, BOSTON, MASS. External cardiac stimulation with microwave radiation (dogs).

R01HL-20079-02 (SGYB) SALZMAN, EDWIN W, MASSAVCHUSETTS INST OF TECH, BUILDING 168 ROOM 522, CAMBRIDGE, MASS. Thromboresistant material.

R01HL-20079-02 0001 (SGYB) MERRILL, EDWARD W. Thromboresistant material--Active and passive thromboresistant surfaces.

R01HL-20079-02 0002 (SGYB) SALZMAN, EDWIN W. Thromboresistant material--Thromboresistant materials (sheep).

R01HL-20079-02 0003 (SGYB) WAUGH, DAVID F. Thromboresistant material--Blood surface interactions (human, cattle).

R01HL-20080-02 (SGYB) BUCKBERG, GERALD D, UNIVERSITY OF CALIFORNIA, DIVISION OF THORACIC SURGERY, LOS ANGELES, CALIF. Surgically induced myocardial edema (dogs).

R01HL-20086-02 (SGYA) WITTE, MARLYS H, ARIZONA MEDICAL CENTER, 1501 NORTH CAMPBELL AVENUE, TUCSON, ARIZ. Circulatory control of splenic function (rats).

R01HL-20087-02 (CVA) HUXTABLE, RYAN J, UNIVERSITY OF ARIZONA, DEPARTMENT OF PHARMACOLOGY, TUCSON, ARIZ. Developmental processes in pulmonary hypertension (rats).

R01HL-20092-02 (HEM) MARTINEZ, JOSE, JEFFERSON MEDICAL COLLEGE 1015 WALNUT STREET, PHILADELPHIA, PA Structural and biological properties of fibrinogen (human, rabbits)

R01HL-20095-03 (SSS) JOHNSON, ROBERT L, UNIVERSITY OF CINCINNATI, 231 BETHESDA AVENUE, CINCINNATI, OHIO Role of lymphokines and monocytes in lung fibrosis (human, guinea pigs, rats)

R01HL-20104-03 (SSS) BOROS, DOV L, WAYNE STATE UNIVERSITY, 54D EAST CANFIELD, DETROIT, MICH Pulmonary granulomatous inflammations (mice)

R01HL-20105-02 (SSS) SCHERER, PETER W, UNIVERSITY OF PENNSYLVANIA, 383 TOWNE BLDG, D3, PHILADELPHIA, PA Deposition of hygroscopic aerosols in bronchi (dogs, human, models)

R01HL-20106-02 (SSS) COHEN, ISAAC, NORTHWESTERN UNIVERSITY, BIOCHEM & MOLECULAR BIO DEPT, EVANSTON, ILL Coupling of platelet contractile proteins to fibrin (human)

R01HL-20110-02 (SSS) DURNEY, CARL H, UNIVERSITY OF UTAH, DEPARTMENT OF BIOENGINEERING, SALT LAKE CITY, UTAH Microwave methods of lung water measurement (dogs, phantom models).

R01HL-20114-02 (HEM) KANG, ANDREW H, VETERANS, 103D JEFFERSON AVENUE, MEMPHIS, TENN. Collagen-platelet interaction and human aorta collagen (human).

R01HL-20116-01 (BIO) TAYLOR, KENNETH B, UNIVERSITY OF ALABAMA, UNIVERSITY STATION, BIRMINGHAM, ALA Heart lactate dehydrogenase-The complex with NAOH (pig).

R01HL-20122-02 (CVA) SANT'AMBROGIO, GIUSEPPE, UNIVERSITY OF TEXAS MEDICAL BR, DEPT OF PHYSIOLOGY & BIOPHYS, GALVESTON, TEX Operational mechanisms of airway receptors (dogs, pigs).

R01HL-20124-02 (EDC) LAUER, RONALD M, UNIVERSITY HOSPITALS, DIV OF PEDIATRIC CARDIOLOGY, IOWA CITY, IOWA Coronary risk factors (human).

R01HL-20125-02 (ALY) NICHOLS, WILLIAM K, UNIVERSITY OF UTAH, DEPT OF BIOPHARMACEUTICAL SCIS, SALT LAKE CITY, UTAH. Cyclic nucleotides and alveolar macrophage activation (rabbits).

R01HL-20132-03 (SSS) ROSENQUIST, GLENN C, UNIVERSITY OF NEBRASKA, 42ND & DEWEY AVENUE, OMAHA, NEBR. Histogenesis and biochemistry of embryonic lung (birds).

R01HL-20140-02 (HEM) MARCHESI, SALLY L, YALE UNIVERSITY, 333 CEDAR STREET, NEW HAVEN, CONN. Glycoproteins of platelet membrane and platelet function (human).

R01HL-20141-02 (HEM) HARRIS, DANIEL C, UNIVERSITY OF CALIFORNIA, DEPARTMENT OF CHEMISTRY, DAVIS, CALIF. Biochemical approaches to management of iron overload (human, sheep, dogs).

R01HL-20142-02 (HEM) JONES, RICHARD T, UNIVERSITY OF OREGON, 3181 S W SAM JACKSON PARK RD, PORTLAND, OREG. Functional studies of abnormal human hemoglobins.

R01HL-20143-02 (SGYA) NORWOOD, WILLIAM I, CHILDREN'S HOSPITAL MED CTR, 3DO LONGWOOD AVENUE, BOSTON, MASS. Hypothermic circulatory arrest--Cerebral vascular change (dogs).

R01HL-20153-02 (PHY) HOLLANDER, PHILIP B, OHIO STATE UNIVERSITY, 1645 NEIL AVENUE, COLUMBUS, OHIO. Intracellular pH and myocardial electropharmacology (dogs, guinea pigs).

R01HL-20159-03 (TEC) WARD, RICHARD H, UNIVERSITY OF WASHINGTON, CHILD DEV & MENT RETD CTR RC 8, SEATTLE, WASH. Genetic epidemiology of precursors of hypertension (human).

R01HL-20161-02 (SSS) HISKEY, RICHARD G, UNIVERSITY OF NORTH CAROLINA, CHEMISTRY DEPARTMENT, CHAPEL HILL, N C. Role of gamma-carboxyglutamic acid in blood coagulation (human, cattle).

R01HL-20163-02 (SGYA) BAHLER, ALAN S, MOUNT SINAI SCHOOL, 1DOTH STREET AND 5TH AVENUE, NEW YORK, N Y. Competitive coronary flow in native and graft vessels (dog).

R01HL-20170-02 (SGYA) DICKERSON, JOSEPH D, UNIVERSITY OF VERMONT, COLLEGE OF MEDICINE, BURLINGTON, VERMONT. Pulmonary infection in splenectomized animals (mice).

R01HL-20176-02 (GMB) RAPP, JOHN P, MEDICAL COLLEGE OF OHIO, C S 1DDD8, TOLEDO, OHIO. Biochemistry and genetics of salt hypertension (rats).

R01HL-20177-02 (CVB) JOHNSON, GEORGE, JR, UNIVERSITY OF NORTH CAROLINA, DEPARTMENT OF SURGERY, CHAPEL HILL, N C. Effects of erythrocyte deformability on tissue perfusion (rats).

R01HL-20179-02 (EDC) KULLER, LEWIS H, UNIVERSITY OF PITTSBURGH, A-435 CRABTREE HALL, PITTSBURGH, PA. Epidemiology of sudden cardiac death among women.

R01HL-20183-02 (CVB) LUMB, WILLIAM V, COLORADO STATE UNIV SURGICAL L, FT COLLINS, COLO. Portacaval shunt as treatment for hyperlipemia (pigs).

R01HL-20184-02 (CVA) AVNER, BARRY P, UNIVERSITY OF NEW MEXICO, 915 STANFDRD, N E, ALBUQUERQUE, N MEX. Desensitization of tracheal muscle to isoproterenol (rats, rabbits).

R01HL-20187-01 (AFY) HARTLEY, LOREN H, BETH ISRAEL HOSPITAL, 33D BRODKLINE AVENUE, BDSTON, MASS. Evaluation of exercise cardiac rehabilitation program (4D-55 year old men).

R01HL-20189-01 (PTHA) OVERTURF, MERRILL L, UNIVERSITY OF TEXAS, POST OFFICE BOX 2D7D8, HOUSTON, TEX. Effects of renin on atherogenesis (rabbits).

R01HL-20190-02 (CVB) BLOOR, COLIN M, UNIV OF CALIFORNIA, SAN DIEGO, SCH OF MED, MD12, LA JOLLA, CALIF. Pathogenesis of cardiac hypertrophy (dogs).

R01HL-20192-02 (CVA) VERDUGO, PEDRO, UNIVERSITY OF WASHINGTON, HEALTH SCIENCES BLDG RF-52, SEATTLE, WASH. Ciliary activity of the lung studied by laser scattering.

R01HL-20194-01 (PHRA) FREED, CURT R, UNIVERSITY OF COLORADO, 42DD EAST NINTH AVENUE, DENVER, COLO. Brain catecholamines in control of blood pressure (rats).

R01HL-20196-02 (CVA) DISALVO, JOSEPH, UNIVERSITY OF CINCINNATI, 231 BETHESDA AVENUE, CINCINNATI, OHIO. Regulation of coronary arterial smooth muscle.

R01HL-20197-02 (PTHA) GOSPODAROWICZ, DENIS J, UNIVERSITY OF CALIFORNIA, 3RD & PARNASSUS AVENUES, SAN FRANCISCO, CALIF. Maintenance and repair of vascular endothelium (human, animals).

R01HL-20199-02 (PTHA) MAROKO, PETER R, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Drug-induced alterations in infarct size in the rat.

R01HL-20201-01 (CVB) MEYER, WALTER J, III, UNIVERSITY OF TEXAS, DEPT OF PEDIATRICS, GALVESTON, TEX. Hypertension and vascular steroid receptors (rats).

R01HL-20206-02 (CV8) MALIK, KAFAIT U, UNIVERSITY OF TENNESSEE, 80D MAOISON AVENUE, MEMPHIS, TENN. Carbohydrates-nucleotides and adrenergic interactions (rabbits, cats, rats).

R01HL-20211-02 (CV8) KOCSIS, JAMES J, THOMAS JEFFERSON UNIVERSITY, 1D2D LDCUST STREET PHILADELPHIA, PA. Role of taurine in the heart (dogs, rats, mice).

R01HL-20218-02 (HEM) FLETCHER, ANTHONY P, WASHINGTON UNIVERSITY, 660 SOUTH EUCLID, ST LOUIS, MO. Fibrinogen catabolism and intravascular coagulation (human).

R01HL-20219-02 (SGYA) CRAVALHO, ERNEST G, MASSACHUSETTS INST OF TECH, BLDG 16-522, 77 MASS AVE, CAMBRIDGE, MASS. Cryopreservation of the isolated heart (rats).

R01HL-20220-03 (SSS) HUGLI, TONY E, SCRIPPS CLINIC & RESEARCH FDN, 476 PROSPECT STREET, LA JOLLA, CALIF. Anaphylatoxins as inflammatory and chemotactic agents (guinea pig, rabbit, human).

R01HL-20226-02 (SGYA) WECHSLER, ANDREW S, DUKE UNIVERSITY, BOX 3174, DURHAM, N C. Cardiac bypass and coronary collateral physiology (dogs).

R01HL-20230-02 (PHY) EISEN8ERG, ROBERT S, ST LUKE'S MEDICAL CENTER, CHICAGO, ILL, PHO. Analysis of the action potential of cardiac muscle (sheep).

R01HL-2023B-02 (CVB) SCHEINMAN, MELVIN M, SAN FRANCISCO GENERAL HOSPITAL, 1DD1 POTRERO, SAN FRANCISCO, CALIF. Prospective bundle branch block study (human).

R01HL-20241-02 (88CA) ZARKOWSKY, HAROLD S, WASHINGTON UNIVERSITY, 5DD SOUTH KINGSHIGHWAY, ST LOUIS, MO. Shear and area moduli for abnormal red cell membranes (human).

R01HL-20244-02 (TEC) HARDY, ROBERT J, 1100 HOLCOMBE BLVD ROOM 1114, HOUSTON, TEXAS. he impact of hypertension information.

R01HL-2024S-01 (TEC) APOSTOLIDES, ARISTIDE Y, UNIVERSITY OF MARYLANO, 31 SOUTH GREENE STREET, BALTIMORE, MD. The impact of hypertension information.

R01HL-20247-01 (TEC) KRAUS, JESS F, UNIVERSITY OF CALIFORNIA, OEPARTMENT OF COMMUNITY HLTH, OAVIS, CALIF. The impact of hypertension information.

R01HL-20248-01 (TEC) OBERMAN, ALBERT, UNIVERSITY OF ALABAMA, BOX 39 OBSB UNIVERSITY STAT, BIRMINGTON, ALA. The impact of hypertension information

R01HL-202S1-02 (SGYB) KIM, SUNG-WAN, UNIVERSITY OF UTAH, SKAGGS HALL, SALT LAKE CITY, UTAH. A novel approach to nonthrombogenic polymer surfaces (sheep, cattle).

R01HL-202S3-02 (AFY) BARNARD, R JAMES, UNIVERSITY OF CALIFORNIA, 1D833 LE CONTE AVENUE, LOS ANGELES, CALIF. Effects of exercise on the heart and its blood supply (dogs).

R01HL-202S4-02 (PHY) KRASNE, SALLY J, UNIVERSITY OF CALIFORNIA, PHYSIOLOGY OEPARTMENT, LOS ANGELES, CALIF. Probes of heart and nerve membranes--Fluorescent dyes.

R01HL-20262-02 (PHRA) FORTES, P A, UNIV OF CALIFORNIA, SAN OIEGO, BIOLOGY OEPARTMENT, LA JOLLA, CALIF. Cardiac glycosides and the mechanism of the sodium-potassium pump.

R01HL-20273-02 (CV8) SCHER, ALLEN M, UNIVERSITY OF WASHINGTON, SCHOOL OF MEOICINE, SEATTLE, WASH. Cardiac fiber direction and the QRS complex (dogs).

R01HL-20274-02 (RAD) CHESLER, DAVID A, MASSACHUSETTS GENERAL HOSPITAL, PHYSICS RESEARCH LABORATORY, BOSTON, MASS. Gated imaging with the MGH x-ray camera.

R01HL-2027B-02 (GMB) POISNER, ALAN M, UNIVERSITY OF KANSAS, 39TH STREET AT RAINBOW BLVO, KANSAS CITY, KANS. Cellular mechanisms of renin secretion (rats).

R01HL-20283-02 (CVB) SPATH, JAMES A, JR, JEFFERSON MEOICAL COLLEGE, 1020 LOCUST STREET, PHILAOELPHIA, PA. Maintenance of cellular integrity in ischemic hearts (cats).

R01HL-202B6-02 (CVA) JONES, CARL E, TEXAS A & M UNIVERSITY, COLLEGE OF MEOICINE, COLLEGE STATION, TEX. Interventions to improve cardiac function in ischemia (dogs).

R01HL-20300-02 (MBY) SUNG, MICHAEL T, SOUTHERN ILLINOIS UNIVERSITY, OEPARTMENT OF CHEMISTRY, CARBONOALR, ILL. Histone H5 and avian erythropoiesis (chickens, rabbits).

R01HL-20301-02 (GEN) YOSHIDA, AKIRA Y, CITY OF HOPE NATIONAL MEO CTR, 150D LAST OUARTE ROAO, OUARTE, CALIF. Genetics of glycosyltransferases in human blood.

R01HL-20303-03 (HEM) LANGE, YVONNE, UNIVERSITY HOSPITAL, 75 E NEWTON STREET, BOSTON, MASS. Cholesterol distribution in erythrocyte membrane (human, animals).

R01HL-20308-02 (MET) WENGER, JANE I, MILTON S HERSHEY MEOICAL CTR, OEPARTMENT OF PHYSIOLOGY, HERSHEY, PA. Regulation of myocardial acylcarnitine transport (rats).

R01HL-20313-02 (SGYA) RODVIEN, ROBERT, INSTITUTE OF MEOICAL SCIENCES, POST OFFICE BOX 7999, SAN FRANCISCO, CALIF. Surface-induced thrombosis--Modification of albumin variants (human, goat).

R01HL-20314-02 (BM) 8JORNSON, ANN 8, UNIVERSITY OF CINCINNATI, 231 BETHESOA AVENUE, CINCINNATI, OHIO. Host defense against S pheumoniae in sickle cell disease (human).

R01HL-20317-02 (HEM) MC COY, LOWELL E, WAYNE STATE UNIVERSITY, 540 EAST CANFIELO, OETROIT, MICH. Procoagulant lipoproteins--Biochemistry and bioactivity (goats, rabbits).

R01HL-20319-02 (B8CA) HERMANS, JAN, UNIVERSITY OF NORTH CAROLINA, OEPARTMENT OF BIOCHEMISTRY, CHAPEL HILL, N C. Assembly, structure and interactions of fibrin (human).

R01HL-2032B-01 (CVA) KATONA, PETER G, CASE WESTERN RESERVE UNIV, OEPT OF BIOMEOICAL ENGINEERING, CLEVELANO, OHIO. Noninvasive assessment of autonomic cardiac control (dogs).

R01HL-20337-02 (HED) HATHAWAY, WILLIAM E, UNIVERSITY OF COLORAOO, 420D E NINTH AVENUE, OENVER, COLO. Thromboembolic diseases (human).

R01HL-20339-02 (PHRA) LEFKOWITZ, ROBERT J, OUKE UNIVERSITY, MEOICAL SCIENCE BUILOING 1B, OURHAM, N C. Vascular alpha-adrenergic receptor molecular properties.

R01HL-20344-02 (CVA) RANNELS, D EUGENE, JR, PENNSYLVANIA STATE UNIVERSITY, OEPARTMENT OF PHYSIOLOGY, HERSHEY, PA. Regulation of protein turnover in lung tissue (rats).

R01HL-20347-02 (AFY) ULTMAN, JAMES S, PENNSYLVANIA STATE UNIVERSITY, 106 FENSKE LABORATORY, UNIVERSITY PARK, PA. Bolus-response measurement of lung function (human).

R01HL-203S0-02 (BBCB) CRAVEN, 8RYAN M, UNIVERSITY OF PITTSBURGH, OEPARTMENT OF CRYSTALLOGRAPHY , PITTSBURGH, PA. Crystal structure of lipids--Cholesterol.

R01HL-20351-02 (AFY) CLARK, JUSTIN S, PRIMARY CHILFREN'S MED CENTER, 320 TWELFTH AVENUE, SALT LAKE CITY, UTAH. A self-calibrating in vivo blood gas monitor (dogs, infants).

R01HL-203S2-02 (CVA) FANBURG, BARRY L, NEW ENGLANO MEOICAL CTR HDSP, 171 HARRISON AVENUE, BOSTON, MASS. Defenses of lung cells against oxygen toxicity (human, animals).

R01HL-203S4-02 (CVA) ZICK, GREGORY L, UNIVERSITY OF WASHINGTON, DEPT OF ELECTRICAL ENGR FT-10 , SEATTLE, WASH. Oirect determination of oxygen tension in the clinical environment (human, dogs) .

R01HL-203S6-02 (SGYA) PIERCE, WILLIAM S, PENNSYLVANIA STATE UNIVERSITY, 500 UNIVERSITY DRIVE, HERSHEY, PA. Oevelopment and evaluation of an artificial heart (calves).

R01HL-20364-01 (SSS) HERD, JAMES A, HARVARD MEDICAL SCHOOL, 25 SHATTUCK STREET, BOSTON, MASS. Episodic hypertension associated with human behavior (air traffic controllers).

R01HL-2036S-03 (PHY) GUNN, ROBERT 8, UNIVERSITY OF CHICAGO, 951 EAST 58TH STREET, CHICAGO, ILL. Molecular mechanisms of anion transport.

R01HL-20366-03 (CVA) MASSARO, DONALD J, UNIVERSITY OF MIAMI, P O BOX 520875 BISCAYNE ANNEX , MIAMI, FLA. Protein turnover and amino acid transport by lung (rats).

R01HL-20369-03 (ALC) SARDESAI, VISHWANATH M, WAYNE STATE UNIVERSITY, 54D E CANFIELO, DETROIT, MICH. The effect of alcohol on the heart (rats).

R01HL-20371-02 (CVA) GREEN, JERRY F, UNIVERSITY OF CALIFORNIA, OEPT OF HUMAN PHYSIOLOGY, DAVIS, CALIF. Intravascular redistribution of blood volume (dogs).

R01HL-20373-02 (AFY) HARRISON, WALTER K, VETERANS ADMINISTRATION HOSP, 3350 LA JOLLA VILLAGE DRIVE, SAN OIEGO, CALIF. Cardiovascular aging in young men and women.

R01HL-20374-03 (TEC) HARRISON, WALTER K, VETERANS ADMINISTRATION HOSP, 3350 LA JOLLA VILLAGE ORIVE, SAN DIEGO, CALIF. Myocardial function--Risk factors and future CHO (human).

R01HL-20381-03 (SRC) STRANDNESS, DONALD E, JR, UNIVERSITY OF WASHINGTON, DEPARTMENT OF SURGERY, RF-25, SEATTLE, WASH. Long-term study of diabetic vascular disease (human).

R01HL-203B4-09 (NEUB) SANTISTEBAN, GEORGE A, PACIFIC NORTHWEST RESEARCH FON, 1102 COLUMBIA STREET, SEATTLE, WASH. Social stimulation, RNA and cardiovascular disease (animals).

R01HL-20388-03 (SRC) MORGAN, HOWARD E, MILTON S HERSHEY MEOICAL CTR, PHYSIOLOGY OEPARTMENT, HERSHEY, PA. Regulation of protein turnover in diabetic heart (rat).

R01HL-20391-03 (SRC) FISHER, WALDO R, UNIVERSITY OF FLORIOA, BOX J-226 JHMHC, GAINESVILLE, FLA. Polydisperse LOL--Structure, metabolism and function (human).

R01HL-20393-03 (SRC) KOLER, ROBERT D, UNIVERSITY OF OREGON, 3181 S W SAM JACKSON PARK RO, PORTLANO, OREG. Postsynthetic modifications of hemoglobin in diabetics (human).

R01HL-20394-03 (SRC) PINCKARD, ROBERT N, UNIVERSITY OF TEXAS, 7703 FLOYO CURL ORIVE, SAN ANTONIO, TEX. Complement activation by heart subcellular membranes (human, dog).

R01HL-20397-03 (SRC) REAVEN, GERALD M, STANFORO UNIVERSITY, SCHOOL OF MEOICINE, STANFORO, CALIF. VLOL-TG metabolism in diabetes mellitis (human, rat).

R01HL-20399-03 (SRC) SPARKS, HARVEY V, UNIVERSITY OF MICHIGAN, PHYSIOLOGY OEPARTMENT, ANN ARBOR, MICH. Vascular control in experimental diabetes mellitus (dog).

R01HL-20400-03 (PTHA) GROVER-JOHNSON, NICOLA M, NEW YORK UNIVERSITY, 550 FIRST AVENUE, NEW YORK, N Y. Oiabetic neuropathy and peripheral vascular diseases (human, hamsters).

R01HL-20401-03 (SRC) DOWNING, S EVANS, YALE UNIVERSITY, 333 CEOAR STREET, NEW HAVEN, CONN. Relationship of insulin to catechol cardiomyopathy (rabbit, pig).

R01HL-2040B-03 (SRC) COSTILL, DAVID L, BALL STATE UNIVERSITY, HUMAN PERFORMANCE LABORATORY, MUNCIE, INO. Hyperlipidemia in diabetics during muscular training (human).

R01HL-20411-03 (SRC) HUNTLEY, THOMAS E, UNIVERSITY OF MINNESOTA, 2205 EAST 5TH STREET, OULUTH, MINN. Platelet fatty acid metabolism in diabetes (rat, rabbit, guinea pig).

R01HL-2041B-03 (SRC) HSIA, SUNG L, UNIVERSITY OF MIAMI, P O BOX 520875, BISCAYNE ANNEX, MIAMI, FLA. Serum cholesterol binding reserve in diabetes (human).

R01HL-20426-03 (SRC) SONNENBLICK, EDMUND H, ALBERT EINSTEIN COLLEGE OF MEO, 130D MORRIS PARK AVENUE, BRONX, N Y. Myocardial function in diabetes mellitus (dog, rat).

R01HL-20428-03 (SRC) SCOTT, RALPH C, UNIVERSITY OF CINCINNATI, 231 BETHESOA AVENUE, CINCINNATI, OHIO. The juvenile diabetic heart (human).

R01HL-20429-03 (SRC) REEVES, JOHN T, UNIVERSITY OF COLORAOO, 4200 EAST NINTH AVENUE, OENVER, COLO. Study of effects of diabetes reactivity (miniature pigs, rats).

R01HL-20439-02 (SRC) STEINSLAND, ODD S, UNIVERSITY OF TEXAS, PHARMACOLOGY & TOXICOLOGY OEPT, GALVESTON, TEX. Effects of insulin on neurovascular transmission (human, rats, rabbits, hamsters).

R01HL-20446-02 (SRC) GIACHETTI, ANTONIO, UNIVERSITY OF TEXAS, 5323 HARRY HINES BLVO, OALLAS, TEX. Autonomic neuropathy in diabetic mice (also rats).

R01HL-20447-03 (SRC) DI FERRANTE, NICOLA M, BAYLOR COLLEGE OF MEOICINE, 1200 MOURSUNO AVENUE, HOUSTON, TEX. Connective tissue and diabetic vascular disease (human).

R01HL-204SS-03 (SRC) PATZ, ARNALL, JOHNS HOPKINS MEOICAL INST, 601 NORTH BROAOWAY, BALTIMORE, MO. Role of systemic hypertension on diabetic retinopathy (human).

R01HL-20460-03 (SRC) HOLLIS, THEODORE M, PENNSYLVANIA STATE UNIVERSITY, 416 LIFE SCIENCE I, UNIVERSITY PARK, PA. Aortic histamine synthesis in diabetes (rat).

R01HL-20464-01 (B8CB) LEAVIS, PAUL C, 20 STANIFORO STREET, BOSTON, MASS. Regulation of cardiac and skeletal muscle contraction (mammals).

R01HL-20471-03 (SRC) GILBERT, DAVID 8, OUKE UNIVERSITY, OEPARTMENT OF MEOICINE, OURHAM, N C. Atherosclerosis and diabetes mellitus (human).

R01HL-20476-03 (SRC) MILLER, THOMAS B, JR, UNIVERSITY OF MASSACHUSETTS, 55 LAKE AVENUE NORTH, WORCESTER, MASS. Effects of diabeles on cardiac performance (rat).

R01HL-204B3-03 (SRC) PALUMBO, PASQUALE J, MAYO FOUNOATION, 200 FIRST STREET SOUTHWEST, ROCHESTER, MINN Sterol balance and cholesterol absorption in diabetics (human)

R01HL-204B4-03 (SRC) NEELY, JAMES R, MILTON S HERSHEY MEO CENTER, OE PARTMENT OF PHYSIOLOGY, HERSHEY, PA Effects of diabetes on car diac function and metabolism (rats)

R01HL-204BB-03 (SRC) SAUOEK, CHRISTOPHER O, CORNELL UNIVERSITY, 1300 YORK AVENUE, NEW YORK, N Y Cholesterol metabolism in diabetic man

R01HL-20500-02 (PTHA) MEEZAN, ELIAS, UNIVERSITY OF ARIZONA, OEPT OF PHARMACOLOGY & PATH, TUCSON, ARIZ Oiabetic human brain microvascular basement membrane (human).

R01HL-2050B-03 (SRC) OSTRANDER, LEON O, JR, UNIVERSITY OF MICHIGAN, 109 OBSERVATORY STREET, ANN ARBOR, MICH Oiabetes, hyperglycemia and cardiovascular disease (human).

R01HL-20517-03 (SRC) VANOERLAAN, WILLARO P, SCRIPPS CLINIC & RESEARCH FON, 10666 N TORREY PINES ROAO, LA JOLLA, CALIF. Oiabetes, somatotropin, factor VIII and atherosclerosis (human, animal).

R01HL-20520-03 (SRC) CERAMI, ANTHONY, ROCKEFELLER UNIVERSITY, 1230 YORK AVENUE, NEW YORK, N Y. Protein modification--The key to diabetic sequelae (human, animal).

R01HL-20522-03 (SRC) PALUMBO, PASQUALE J, MAYO FOUNOATION, 200 FIRST STREET SOUTHWEST, ROCHESTER, MINN Peripheral arterial disease in the diabetic (human).

R01HL-20533-09 (ALY) AYOUB, ELIA M, UNIVERSITY OF FLORIOA, POST OFFICE BOX 739, GAINESVILLE, FLA. Pathogenesis of rheumatic fever (human, rabbits).

R01HL-20535-02 (SRC) O'SULLIVAN, JOHN B, OIABETES ANO ARTHRITIS UNIT, 408 ATLANTIC AVENUE RM 815, BOSTON, MASS. Cardiovascular disease and evolving diabetes mellitus (human).

R01HL-20539-03 (SRC) GABBAY, KENNETH H, CHILOREN'S HOSPITAL MEO CTR, 300 LONGWOOD AVENUE, BOSTON, MASS. Blood glucose, hemoglobin A1c, and diabetic vascular disease (human).

R01HL-20542-03 (CVB) PEGRAM, BARBARA L, ALTON OSCHSNER MEO FON, 1516 JEFFERSON HIGHWAY, NEW ORLEANS, LA. Regional hemodynamics in spontaneous hypertension (rats).

R01HL-20544-02 (BIO) OLSON, MERLE S, UNIVERSITY OF TEXAS, 7703 FLOYD CURL ORIVE, SAN ANTONIO, TEX. Integrated regulation of myocardial energy metabolism (rats, guinea pigs).

R01HL-20546-02 (PBC) SANOBERG, LAWRENCE B, UNIVERSITY OF UTAH, COLLEGE OF MEOICINE, SALT LAKE CITY, UTAH. Chemical analysis of human arterial elastin.

R01HL-20547-02 (PBC) GLEW, ROBERT H, UNIVERSITY OF PITTSBURGH, OEPARTMENT OF BIOCHEMISTRY, PITTSBURGH, PA. Glycoproteins in pulmonary alveolar proteinosis (human).

R01HL-20548-02 (PTHA) EL-BERMANI, AL-WALID I, TUFTS UNIVERSITY, 136 HARRISON AVENUE, BOSTON, MASS. Innervation of the lung (rats, monkeys).

P01HL-20552-02 (HEPA) BRAUNWALO, EUGENE, 721 HUNTINGTON AVENUE, BOSTON, MASS. The development and regression of cardiac hypertrophy.

P01HL-20552-02 0001 (HEPA) BRAUNWALO, EUGENE. The development and regression of cardiac hypertrophy--Biochemical events in cardiac hypertrophy (rats).

P01HL-20552-02 0002 (HEPA) BRAUNWALD, EUGENE. The development and regression of cardiac hypertrophy--Effect of treatment on the hypertrophied left ventricle (rats).

P01HL-20552-02 0003 (HEPA) BING, OSCAR H L. The development and regression of cardiac hypertrophy--Muscle mechanics of the hypertrophied left ventricle (rats).

P01HL-20552-02 0004 (HEPA) VATNER, STEPHEN F. The development and regression of cardiac hypertrophy--Ventricular function in experimentally induced hypertrophy (hogs, sheep, baboons).

P01HL-20552-02 0010 (HEPA) INGWALL, JOANNE S. The development and regression of cardiac hypertrophy--Energy metabolism in the hypertrophied heart animals.

P01HL-20552-02 9001 (HEPA) COTRAN, RAMZI. The development and regression of cardiac hypertrophy--Core A--Pathology.

P01HL-20552-02 9002 (HEPA) MIRSKY, ISREAL. The development and regression of cardiac hypertrophy--Core B--Biomathematics.

P01HL-20552-02 9003 (HEPA) TAEGTMEYER, HEINRICH. The development and regression of cardiac hypertrophy--Core O--Amino acids analysis.

R01HL-20554-02 (SGYB) SIMON, MORRIS, BETH ISRAEL HOSPITAL, 330 BROOKLINE AVENUE, BOSTON, MASS. Memory-alloy-filters for venous emboli (dogs).

R01HL-2055B-02 (PHY) COHEN, IRA S, S U N Y -AT STONY BROOK, PHYSIOLOGY & BIOPHYSICS OEPT, STONY BROOK, N Y. Cardiac electrophysiology--Effects of ions and drugs.

R01HL-20563-02 (CVB) WIEOEMAN, MARY P, TEMPLE UNIVERSITY, 3420 NORTH BROAO STREET, PHILADELPHIA, PA. Restoring microcirculation after platelet aggregation.

R01HL-20564-02 (CVA) FRONEK, KITTY, UNIV OF CALIFORNIA, SAN OIEGO, AMES-BIOENGINEERING, M-005, LA JOLLA, CALIF. Pathogenesis of peripheral arterial disease (rats, rabbits).

R01HL-20566-02 (CVA) RHOAOES, RODNEY A, INOIANA UNIVERSITY, 1100 WEST MICHIGAN STREET, INOIANAPOLIS, INO. Lactate metabolism in the lung (rats).

R01HL-20568-03 (CVA) LAI, YIH-LOONG, VIRGINIA MASON RESEARCH CENTER, 1000 SENECA STREET, SEATTLE, WASH. Respiration during prolonged hypercapnia (rats).

R01HL-20572-02 (CVB) FROHLICH, EOWARD D, ALTON OCHSNER MEOICAL FON, 1516 JEFFERSON HIGHWAY, NEW ORLEANS, LA. Hemodynamic relations to metabolism in hypertension.

R01HL-20572-02 0001 (CVB) FROHLICH, EOWARO O. Hemodynamic relations to metabolism in hypertension--Hemodynamic and myocardial functional studies in the SHR (rat).

R01HL-20572-02 0003 (CVB) FROHLICH, EDWARD D. Hemodynamic relations to metabolism in hypertension--Cardiac output and organ blood flow in hypertension (rats).

R01HL-20572-02 0007 (CVB) FROHLICH, EOWARO O Hemodynamic relations to metabolism in hypertension Oiug effects on cardiac function and hypertropy (rats)

R01HL-20572-02 0008 (CVB) FROHLICH, EOWARO O Hemodynamic relations to metabolism in hypertension Role of nervous system in hemodynamic function

R01HL-20574-03 (CVA) ST JOHN, WALTER M, DARTMOUTH MEOICAL SCHOOL, OEPARTMENT OF PHYSIOLOGY, HANOVER, N H Brain stem integration of chemoreceptor activity (cats)

R23HL-20576-01 (YIP) JOHNSON, LARRY R, SCIENCES CENTER, 3181 S W SAM JACKSON PARK ROAO, PORTLANO, OREGON Airway turbulence and pulmonary oxygen exchange

R01HL-20577-03 (HEM) WILLINGHAM, ALLAN K, KIRKSVILLE COLL OF OSTEOPATHIC, 800 WEST JEFFERSON STREET, KIRKSVILLE, MO The mechanism of action of vitamin K

R01HL-20579-02 (MCHA) KOZIKOWSKI, ALAN P, UNIVERSITY OF PITTSBURGH, OEPARTMENT OF CHEMISTRY, PITTSBURGH, PA Synthesis of therapeutically important alkaloids.

P01HL-205B1-01 (HLBA) BEVAN, JOHN A, UNIVERSITY OF CALIFORNIA, PHARMACOLOGY OEPARTMENT, LOS ANGELES, CALIF Vascular neuroeffector mechanisms in health and disease.

P01HL-205B1-01 0001 (HLBA) BEVAN, JOHN A. Vascular neuroeffector mechanisms in health and disease-Vascular neuroeffector mechanism (rabbits).

P01HL-205B1-01 0002 (HLBA) BEVAN, ROSEMARY D. Vascular neuroeffector mechanisms in health and disease-Trophic interaction between adrenergic nerves and vascular smooth muscle.

P01HL-205B1-01 0003 (HLBA) OUCKLES, SUE P. Vascular neuroeffector mechanisms in health and disease-Cerebrovascular neuroeffector characteristics (animals).

P01HL-205B1-01 0004 (HLBA) SU, CHE. Vascular neuroeffector mechanisms in health and disease--Neuroeffector characteristics of mesenteric and pulmonary blood vessels (rabbits).

P01HL-205B1-01 0005 (HLBA) BEVAN, ROSEMARY O. Vascular neuroeffector mechanisms in health and disease--Changes in the neuroeffector mechanism in hypertension (rabbits).

P01HL-205B1-01 0006 (HLBA) OEQUATTRO, VINCENT L. Vascular neuroeffector mechanisms in health and disease--Neuroeffector mechanism in arteries and veins in hypertension (human).

P01HL-205B1-01 9001 (HLBA) BEVAN, ROSEMARY O. Vascular neuroeffector mechanisms in health and disease--Morphology core.

P01HL-205B1-01 9002 (HLBA) SU, CHE. Vascular neuroeffector mechanisms in health and disease--Biochemistry core.

P01HL-20592-02 (HEPA) FOZZARD, HARRY A, UNIVERSITY OF CHICAGO, 950 EAST 59TH STREET, BOX 423 , CHICAGO, ILL. Cell biology of cardiac and skeletal muscle.

P01HL-20592-02 0001 (HEPA) TAYLOR, EDWIN WILLIAM. Cell biology of cardiac and skeletal muscle--Molecular mechanism of muscle contraction (animals).

P01HL-20592-02 0003 (HEPA) COHEN, CHARLES J. Cell biology of cardiac and skeletal muscle--Cellular magnesium and anion activities in ion-specific microelectrodes (frogs).

P01HL-20592-02 0004 (HEPA) FOZZARO, HARRY A. Cell biology of cardiac and skeletal muscle--Excitation, conduction and contraction--Modelling in Purkinje fibers.

P01HL-20592-02 0005 (HEPA) FOZZARO, HARRY A. Cell biology of cardiac and skeletal muscle--Quantitative voltage studies.

P01HL-20592-02 0006 (HEPA) PAGE, ERNEST. Cell biology of cardiac and skeletal muscle--Permeability and ultrastructure of cardiac nexuses (rabbits, cattle, rats).

P01HL-20592-02 0010 (HEPA) PAGE, ERNEST. Cell biology of cardiac and skeletal muscle--Mitochondrial genesis during myocardial cell hypertrophy and hyperplasia (rats).

P01HL-20592-02 0011 (HEPA) RABINOWITZ, MURRAY. Cell biology of cardiac and skeletal muscle--Myosin and cytochrome oxidase messenger RNAs (chicken).

P01HL-20592-02 0012 (HEPA) FORO, LINCOLN E. Cell biology of cardiac and skeletal muscle--Contractile properties of skinned muscle fibers (frogs).

P01HL-20592-02 0013 (HEPA) FORO, LINCOLN E. Cell biology of cardiac and skeletal muscle--Sarcoplasmic reticulum in skinned muscle cells (frogs).

P01HL-20592-02 0014 (HEPA) PAGE, ERNEST. Cell biology of cardiac and skeletal muscle--Core laboratory.

R01HL-20594-02 (CVB) EROOS, ERVIN G, UNIVERSITY OF TEXAS, 5323 HARRY HINES BOULEVARO, DALLAS, TEX. Renal enzymes that regulate blood pressure (human, rats).

R01HL-20597-02 (CVB) MIRVIS, DAVIO M, OOBBS MEO RESEARCH INSTITUTE, 951 COURT AVENUE, MEMPHIS, TENN. Electrophysiologic correlates of myocardial ischemia (human, dogs, rabbits).

R01HL-2059B-03 (CVA) BACHE, ROBERT J, UNIVERSITY OF MINNESOTA, BOX 194 - MAYO MEMORIAL BLOG, MINNEAPOLIS, MINN. The coronary vascular response to ischemia (dogs, pigs).

R01HL-20604-03 (CVB) JOHNSON, EUGENE M, JR, WASHINGTON UNIVERSITY, 660 SOUTH EUCLIO, ST LOUIS, MO. Sympathectomy--Cardiovascular and molecular pharmacology (animals).

R01HL-20605-02 (PHY) BOHLEN, HAROLO G, INDIANA UNIVERSITY, 1100 WEST MICHIGAN STREET, INDIANAPOLIS, IND. Microvascular responses during intestinal absorption (rats).

R01HL-20607-02 (CVA) OSTRANDER, LEE E, RENSSELAER POLYTECHNIC INST, CTR FOR BIOMEOICAL ENGINEERING, TROY, N Y. Tissue analysis by mass spectrometer (dogs).

R01HL-20610-02 (CVB) KAYE, MICHAEL P, MAYO FOUNOATION, 200 FIRST STREET SOUTHWEST, ROCHESTER, MINN. Nerve growth factor and obstructive cardiomyopathy (dogs).

R01HL-20611-02 (CVA) OOUGLAS, JAMES S, JOHN B PIERCE FOUNOATION, 290 CONGRESS AVENUE, NEW HAVEN, CONN. Airway smooth muscle and cyclic nucleotides.

R01HL-20612-02 (CVA) CHENEY, FREOERICK W, JR, UNIVERSITY OF WASHINGTON, ANESTHESIOLOGY OEPARTMENT, SEATTLE, WASH. Chronic animal model of pulmonary vascular injury (dogs).

R01HL-20613-02 (PHY) HUNTSMAN, LEE L, UNIVERSITY OF WASHINGTON, CENTER FOR BIOENGINEERING, SEATTLE, WASH. Mechanical properties of isolated myocardium.

R01HL-20622-02 (TOX) MEHENDALE, HARIHARA M, UNIVERSITY OF MISSISSIPPI, 2500 NORTH STATE STREET, JACKSON, MISS. Pulmonary uptake and accumulation of drugs (rabbits, rats).

R01HL-20629-02 (SGYB) BOURLAND, JOE D, PURDUE UNIVERSITY, BIOMEDICAL ENGINEERING CENTER , WEST LAFAYETTE, INO. Catheter ventricular defibrillation studies (dogs).

R01HL-20630-03 (CVB) COLE, JAMES S, UNIVERSITY OF KENTUCKY, CARDIOLOGY SECTION, LEXINGTON, KY. Development of a pulsed Doppler velocity detector (human, animals).

R01HL-20632-02 (SGYB) LONGINI, RICHARD L, CARNEGIE-MELLON UNIVERSITY, 5D0D FORBES AVENUE, PITTSBURGH, PA. An optimal fetal heart monitor (human).

R01HL-20634-01 (AFY) NADEL, ETHAN R, JOHN B PIERCE FDN LABORATORY, 29D CONGRESS AVENUE, NEW HAVEN, CONN. Blood volume and venous return in thermal strain (human).

R01HL-20635-03 (HED) MINOR, RONALD R, CORNELL UNIVERSITY, DEPARTMENT OF PATHOLOGY, ITHACA, N Y. Factors in lung development (rat and chick embryo).

R01HL-20637-02 (EDC) JENKINS, C DAVID, BOSTON UNIVERSITY, 720 HARRISON AVENUE, BOSTON, MASS. Recovery after heart surgery--Bio-behavioral factors (human).

R01HL-20643-02 (CVA) SHAY, JERRY W, UNIVERSITY OF TEXAS, 5323 HARRY HINES BOULEVARD, DALLAS, TEX. Analysis of heart cell contraction (rats).

R01HL-20645-01 (CVB) PHILLIPS, GERALD B, ROOSEVELT HOSPITAL, 428 WEST 59TH STREET, NEW YORK, N Y. Etiology of myocardial infaction (human).

R01HL-2064B-01 (CVA) DOWNEY, JAMES M, UNIVERSITY OF SOUTH ALABAMA, 3D7 UNIVERSITY BOULEVARD, MDBILE, ALA. Physical factors and coronary flow (dogs).

R01HL-20652-01 (CVA) BUTLER, JOHN, UNIVERSITY OF WASHINGTON, OEPARTMENT OF MEDICINE RM-12, SEATTLE, WASH. Sites of leakage in pulmonary edema (dogs).

R01HL-2065S-02 (DBR) PRICE, KENNETH F, UNIV OF TEXAS HLTH SCIENCE CTR, 5323 HARRY HINES BOULEVARD, DALLAS, TEX. Autonomic predictors of hypertension in children.

R01HL-2065B-01 (BIO) JACOBUS, WILLIAM E, JOHNS HOPKINS SCHOOL OF MEO, 725 N WOLFE STREET, BALTIMORE, MD. Myocardial energy transport--Creative kinase (human, cattle, dog).

R01HL-20662-02 (EDC) TAYLOR, HENRY, UNIVERSITY OF MINNESOTA, STADIUM GATE 27, MINNEAPOLIS, MINN. Physical activity, fitness and epidemiology of CHO.

R01HL-20663-02 (AFY) JOHNSON, JOHN M, UNIVERSITY OF TEXAS, 7703 FLOYO CURL ORIVE, SAN ANTONIO, TEX. Regulation of skin blood flow in man.

R01HL-20666-02 (SSS) STRACHER, ALFRED, S U N Y - OOWNSTATE MEDICAL CT, 450 CLARKSON AVENUE, BROOKLYN, N Y. Cell biology of platelet preservation (human).

R01HL-20674-02 (RAD) WAGNER, HENRY N, JR, JOHNS HOPKINS UNIVERSITY, 615 NORTH WOLFE STREET, BALTIMORE, MO. Evaluation of cardiac function with radioactive tracers.

R01HL-20675-02 (PTHA) GOLDE, DAVID W, UNIVERSITY OF CALIFORNIA, OEPARTMENT OF MEOICINE, LOS ANGELES, CALIF. Alveolar macrophage function in man.

R01HL-20677-02 (RAD) JONES, ROBERT H, OUKE UNIVERSITY, P O BOX 2986, OURHAM, N C. Radionuclide studies in congenital heart disease.

R01HL-2067B-02 (AFY) ATKINS, JAMES M, UNIVERSITY OF TEXAS, 5323 HARRY HINES BOULEVARO, OALLAS, TEX. Cardiovascular adaptation to stress in disease states (dogs).

R01HL-206B5-02 (CVB) HANSON, KENNETH M, OHIO STATE UNIVERSITY, 333 WEST 1DTH AVENUE, COLUMBUS, OHIO. Pituitary-adrenergic-ovarian vasomotor interaction (dogs).

R01HL-20690-02 (CVA) BUTLER, JOHN, UNIVERSTY OF WASHINGTON, OEPARTMENT OF MEOICINE, SEATTLE, WASH. Pulmonary hemodynamics in lung edema during PEEP (dogs).

R01HL-20695-02 (SSS) WHITE, JAMES G, UNIVERSITY OF MINNESOTA, BOX 479 MAYO MEMORIAL BUILDING, MINNEAPOLIS, MINN. Stored plateletes (human).

R01HL-2070B-02 (PHY) NATHAN, RICHARD D, TEXAS TECH UNIV SCH OF MEO, POST OFFICE BOX, LUBBOCK, TEX. Voltage clamp of embryonic heart cell aggregates (rat and chick embryos).

R01HL-20711-01 (PHY) KROPP, DONNA L, NEW JERSEY MEOICAL SCHOOL, COLLEGE OF MEO & OENTISTRY, NEWARK, N J. Structure-function relationships in red cell NA-K pumps (goats).

R01HL-20712-02 (MET) KUEHL, KAREN S, UNIVERSITY OF VIRGINIA, SCHOOL OF MEOICINE, CHARLOTTESVILLE, VA. Characterization of the B proteins of serum lipoproteins (human).

R01HL-20716-02 (SSS) POPOVIC, VOJIN P, EMORY UNIVERSITY, OEPARTMENT OF PHYSIOLOGY, ATLANTA, GA. Freezing and electromagnetic thawing of platelets (rats).

R01HL-2071B-02 (SSS) PUSZKIN, SAUL, MOUNT SINAI SCH OF MEOICINE, 1DOTH STREET & FIFTH AVENUE, NEW YORK, N Y. Microstructural integrity of stored human platelets.

R01HL-20719-02 (CVA) WILL, DONALD H, COLORAOO STATE UNIVERSITY, OEPT OF PHYSIOLOGY & BIOPHYSIC, FORT COLLINS, COLO. Cold induced pulmonary hypertension (cattle).

R01HL-20720-02 (SGYB) WEINTRAUB, RONALD M, BETH ISRAEK HOSPITAL, 33D BROOKLINE AVENUE, BOSTON, MASS. Myocardial protection during cardiopulmonary bypass (dogs).

R01HL-20724-01 (EDC) SHAPIRO, ALVIN P, UNIVERSIYT OF PITTSBURGH, 3811 O'HARA STREET, PITTSBURTH, PA. Behavioral consequences of hypertension (human).

R01HL-20725-02 (PHY) GUNN, ROBERT B, THE UNIVERSITY OF CHICAGO, 951 EAST 58TH STREET, CHICAGO, ILL. Mechanisms and cellular functions of ion transport.

R01HL-20749-01 (CVB) ANDERSON, PAGE A, OUKE UNIVERSITY, BOX 3218, OURHAM, N C. Oeveloping heart--Biophysical aspects (sheep).

R01HL-20750-01 (HEM) ASAKURA, TOSHIO, CHILORN'S HOSPITAL, 34TH STREET & CIVIC CTR BLVO, PHILAOELPHIA, PA. Studies in sickle cell disease (human).

R01HL-20751-01 (MCHB) REGNIER, FRED E, PUROUE UNIVERSITY, OEPARTMENT OF BIOCHEMISTRY, W LAFAYETTE, INO. High speed liquid chromatography of hemoglobins (human).

R01HL-20754-02 (SGYA) SU, JUDY Y, UNIVERSITY OF WASHINGTON, RN-1D BB 1469, SEATTLE, WASH. Anesthetic-induced myocardial depression (rabbits).

R01HL-20761-02 (RAD) HILAL, SADEK K, NEUROLOGICAL INSTITUTE, 710 WEST 168TH STREET, NEW YORK, N Y. Study of cerebral blood flow with stable xenon and computerized tomography.

R01HL-20764-02 (PBC) GALLOP, PAUL M, CHILDREN'S HOSPITAL, 30D LONGWOOD AVENUE, BOSTON, MASS. Elastin and calcification in pulmonary and vascular disease (human, mammals).

R13HL-20765-01 (NSS) NELSON, ERLAND R, UNIVERSITY OF MARYLANO, SCHOOL OF MEOICINE, BALTIMORE, MD. Eleventh Princeton Conference on Cerebrovascular Disease (new Jersey).

R01HL-20766-02 (AFY) PROPPE, DUANE W, UNIVERSITY OF TEXAS, 7703 FLOYO CURL DRIVE, SAN ANTONIO, TEX. Control of circulation in heat stress (baboons).

R01HL-2076B-02 (CVB) SCHMID, PHILLIP G, UNIVERSITY OF IOWA, DEPT OF INTERNAL MEOICINE, IOWA CITY, IOWA. Mechanisms of circulatory regulation in heart failure (guinea pigs).

R01HL-20773-02 (AFY) HILDEBRANDT, JACOB, VIRGINIA MASON RESEARCH CTR, 1DDO SENECA STREET, SEATTLE, WASH. Surfactant, pulmonary edema, and lung mechanics (rabbits).

R01HL-207B2-01 (CVB) OLSSON, RAY A, USF COLLEGE OF MEDICINE, 129D1 NORTH 3DTH STREET, TAMPA, FLA. Coronary flow regulation by adenosine (rats, dogs).

R01HL-207B3-02 (PHRA) DOUGLAS, JAMES S, JOHN B PIERCE FOUNDATION, 290 CONGRESS AVENUE, NEW HAVEN, CONN. Airway reactivity--B-adrenoceptors and prostaglandins (guinea pigs).

R01HL-207B7-02 (PHRA) NEEDLEMAN, PHILIP, WASHINGTON UNIVERSITY, 660 SOUTH EUCLID, ST LOUIS, MO. Thromboxanes and prostaglandins--Biochemical pharmacology (rabbits, human).

R01HL-207BB-02 (SSS) PERSIDSKY, MAXIM D, INSTITUTES OF MEOICAL SCIENCES, POST OFFICE BOX 7999, SAN FRANCISCO, CALIF. Preservation of human platelets for transfusion.

R01HL-20793-02 (PHRA) SHIDEMAN, FREDERICK E, UNIVERSITY OF MINNESOTA, 105 MILLARD HALL, MINNEAPOLIS, MINN. Phospholipids and cardiac receptor function.

R01HL-20794-02 (PC) ROTH, GERALD J, UNIVERSITY OF CONNECTICUT, DEPARTMENT OF MEOICINE, FARMINGTON, CONN. Prostaglandin synthesis in human platelets (also in sheep, rabbit).

R01HL-20B00-17 (NEUB) COHEN, MORTON I, ALBERT EINSTEIN COLLEGE OF MEO, 13D0 MORRIS PARK AVENUE, BRONX, N Y. Neural basis of respiratory and vasomotor activity (cats).

R01HL-20B03-02 (SGYB) KOLFF, WILLIAM J, UNIVERSITY OF UTAH, BUILOING 518, SALT LAKE CITY, UTAH. Intra-aortic balloon pumping (dogs, lambs, cats).

R01HL-20B07-02 (MET) FOGELMAN, ALAN M, UNIVERSITY OF CALIFORNIA, OEPARTMENT OF MEOICINE, LOS ANGELES, CALIF. Detection of familial hypercholesterolemia (human).

R01HL-20B15-02 (CVA) DEMPSEY, JEROME A, UNIVERSITY OF WISCONSIN, DEPT OF PREVENTIVE MEOICINE, MAOISON, WIS. Validation of indirect tests of small airways function (human, dogs, ponies).

R01HL-20B1B-02 (SSS) MURPHY, SCOTT, THOMAS JEFFERSON UNIVERSITY, 1015 WALNUT STREET, PHILAOELPHIA, PA. Platelet storage at 22 degrees C (human).

R01HL-20B26-02 (HEM) NAKEFF, ALEXANDER, WASHINGTON UNIVERSITY, 510 SOUTH KINGSHIGHWAY, ST LOUIS, MO. Megakaryocyte proliferation and its control (mice).

R01HL-20B27-02 (CVB) MARCUS, MELVIN L, UNIVERSITY OF IOWA, OEPT OF INTERNAL MEOICINE, IOWA CITY, IOWA. Effects of hypertrophy on the coronary circulation (dogs).

R01HL-20B29-02 (SGYB) FALSETTI, HERMAN L, UNIVERSITY HOSPITALS, OEPARTMENT OF INTERNAL MEO, IOWA CITY, IOWA. Fluid mechanics of heart valve prostheses (dogs, human).

R01HL-20B35-02 (SGYB) GIDDENS, DON P, GEORGIA INSTITUTE OF TECH, AEROSPACE ENGINEERING, ATLANTA, GA. Signal analysis of turbulence study in blood.

R01HL-20B46-02 (HEM) RADCLIFFE, ROBERT D, OKLAHOMA MEOICAL RESEARCH FON, 825 N E 13TH, OKLAHOMA CITY, OKLA. Purification of bovine plasminogen proactivator.

R01HL-20B47-02 (CVA) CHERNIACK, NEIL S, VETERANS AOMINISTRATION HOSP, 10701 EAST BOULEVARO, CLEVELANO, OHIO. Respiratory neurochemical control (human, goats).

R01HL-20B56-02 (SSS) CONRAD, MARCEL E, UNIVERSITY OF ALABAMA, UNIVERSITY STATION, BIRMINGHAM, ALA. Platelet transfusions--Usage and complications (human).

R01HL-20B59-02 (PHRA) BILEZIKIAN, JOHN P, COLUMBIA UNIVERSITY, 630 WEST 168TH STREET, NEW YORK, N Y. Beta adrenergic catecholamine receptor.

R01HL-20B61-01 (EXP) CORSON, SAMUEL A, OHIO STATE UNIVERSITY, 473 WEST 12TH AVENUE, COLUMBUS, OHIO. Cardio-respiratory-renal stress reactions (dogs).

R01HL-20B64-01 (CVB) GOOTMAN, PHYLLIS M, S U N Y - AT BROOKLYN, 45D CLARKSON AVENUE, BROOKLYN, N Y. Postnatal maturation of cardiovascular regulatory system (minipig).

R01HL-20B6B-02 (PBC) MENDICINO, JOSEPH F, UNIVERSITY OF GEORGIA, OEPARTMENT OF BIOCHEMISTRY, ATHENS, GA. Regulation of glycoprotein biosynthesis in lung (swine).

R01HL-20B69-01 (RAD) FRANKLIN, THOMAS D, JR, INOIANA UNIVERSITY, 11OD WEST MICHIGAN STREET, INOIANAPOLIS, INO. Microvascular responses to ultrasound.

R01HL-20B72-02 (RAD) MILLER, NORMAN B, PENNSYLVANIA STATE UNIVERSITY, POST OFFICE BOX 30, STATE COLLEGE, PA. Multidimensional echo imaging of the ischemic heart.

R01HL-20875-02 (PTHA) MILLER, R DREW, MAYO FOUNOATION, 200 FIRST STREET SOUTHWEST, ROCHESTER, MINN. Chronic obstructive pulmonary disease--Familial/genetic (human).

R01HL-20B7B-02 (PTHA) SAYEED, MOHAMMED M, LOYOLA UNIVERSITY, 2160 SOUTH FIRST AVENUE, MAYWOOO, ILL. Cellular aspects of lung injury (rats, rabbits).

R01HL-20BB2-02 (BBCB) HARMONY, JUDITH A, INDIANA UNIVERSITY, CHEMISTRY OEPARTMENT, BLOOMINGTON, INO. Interactions of plasma lipoproteins with erythrocytes (Rhesus, human).

R01HL-20BB3-02 (CVB) STREETER, DANIEL D, JR, CHILOREN'S ORTHOPEOIC HOSPITAL, P O BOXC-5371, CAROIOLOGY, SEATTLE, WASH. Fiber geometry in hypertrophy and cardiomyopathy (human).

R01HL-20895-03 (SGYB) ABRAMS, HERBERT L, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Cineangiographic studies of cardiovascular system.

R01HL-20895-03 0001 (SGYB) HESSEL, S J. Cineangiographic studies of cardiovascular system-Videodensitometry and valvular regurgitation (human, dogs).

R01HL-20B95-03 0002 (SGYB) HOLMAN, B L. Cineangiographic studies of cardiovascular system-Coronary disease-Regional myocardial blood flow (human, dog).

R01HL-20B95-03 0003 (SGYB) AOAMS, O F. Cineangiographic studies of cardiovascular system-Oensitometry in coronary stenosis (human).

R01HL-20B95-03 0004 (SGYB) HESSEL, S J. Cineangiographic studies of cardiovascular system-Cineangiography-Coronary lesions and ventricular function (human).

R01HL-20B95-03 0005 (SGYB) AOAMS, O F. Cineangiographic studies of cardiovascular system--Computerized axial tomography-Cardiac wall motion and infarction (dogs).

R01HL-20B95-03 0006 (SGYB) SERUR, J R. Cineangiographic studies of cardiovascular system--Cardiomyopathy--Hemodynamic, radiologic, morphologic abnormalities (dog, rabbit).

R01HL-20B95-03 0007 (SGYB) ABRAMS, HERBERT L. Cineangiographic studies of cardiovascular system--Oeterminants of collateral formation (dogs, hamsters).

R01HL-20B95-03 000B (SGYB) LEVIN, O C. Cineangiographic studies of cardiovascular system--Intercoronary anastomotic circulation--Stenosis and occlusion (dogs).

R01HL-20B95-03 0009 (SGYB) HESSEL, S J. Cineangiographic studies of cardiovascular system--Aortic changes in atheromatosis (rabbits).

R01HL-20B95-03 0010 (SGYB) HOLLENBERG, NORMAN K. Cineangiographic studies of cardiovascular system--Cortical necrosis and acute renal failure (human, dogs, rats, rabbits).

R01HL-20B95-03 0011 (SGYB) ABRAMS, HERBERT L. Cineangiographic studies of cardiovascular system--Ventricular hypertrophy and preouttlow contraction (human, dogs).

R01HL-20B9B-02 (SSS) STRANONESS, OONALO E, JR, UNIVERSITY OF WASHINGTON, OEPARTMENT OF SURGERY, SEATTLE, WASH. Ultrasonic evaluation in direct arterial surgery (models, cattle, human).

R01HL-20B99-02 (SSS) STAMATOYANNOPOULOS, GEORGE, UNIVERSITY OF WASHINGTON, DEPARTMENT OF MEOICINE RG-20, SEATTLE, WASH. Cellular mechanisms of hemoglobin F regulation (human).

R01HL-20902-02 (CBY) COHEN, WILLIAM O, HUNTER COLLEGE, 695 PARK AVE, BOX 243, NEW YORK, N Y. Studies on marginal band system of erythrocytes (amphibians, reptiles, fish).

R01HL-20905-02 (SSS) WEATHERALL, OAVIO J, RAOCLIFFE INFIRMARY, NUFFIELO OEPT OF CLINICAL MEO , OXFORO OX2 LHE ENGLANO. Synthesis of fetal hemoglobin in erythroid cells (sheep, human).

R01HL-20909-02 (BIO) LAZAROW, PAUL B, ROCKEFELLER UNIVERSITY, 1230 YORK AVENUE, NEW YORK, N Y. Clofibrate-enhanced lipid oxidation by peroxisomes (rats).

R01HL-20910-02 (SSS) CONNOR, WILLIAM E, UNIVERSITY OF OREGON, 3181 S W SAM JACKSON PARK ROAO, PORTLANO, OREG. The alternative diet for coronary disease prevention (human).

R01HL-20912-02 (SSS) POPP, RAYMONO A, OAK RIOGE NATIONAL LABORATORY, POST OFFICE BOX Y, BIOLOGY OIV, OAK RIOGE, TENN. Control on non-alpha chain synthesis in thassemic mice.

R01HL-20913-02 (SSS) OGAWA, MAKIO, MEO UNIV OF SOUTH CAROLINA, 80 BARRE STREET, CHARLESTON, S C. Cell culture studies of hemoglobinopathies (human).

R01HL-20920-01 (HEM) OE SIMONE, JOSEPH, UNIVERSITY OF ILLINOIS, 1853 WEST POLK STREET, CHICAGO, ILL. Control of hemoglobin synthesis (baboon).

R01HL-20922-02 (SSS) FORGET, BERNARO G, YALE UNIVERSITY, 333 CEOAR STREET, NEW HAVEN, CONN. Control ot human fetal hemoglobin synthesis.

R01HL-20924-02 (CVB) ROBERTSON, ABEL L, CASE WESTERN RESERVE UNIV, 2085 AOELBERT ROAD, CLEVELAND, OHIO. Atherosclerosis and arterial cell functions (human, rabbits).

R01HL-20925-01 (HEM) BUNN, H FRANKLIN, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. The acetylation of fetal hemoglobin (human).

R01HL-20939-02 (SSS) LEE, JOHN C, UNIVERSITY OF TEXAS, 7703 FLOYO CURL ORIVE, SAN ANTONIO, TEX. Regulation of fetal hemoglobin in humans.

R01HL-20943-02 (RAO) HARELL, GEORGE S, STANFORD UNIVERSITY, OIAGNOSTIC RAOIOLOGY, STANFORO, CALIF. Comparision of microsphere and RBC behavior in vivo.

P01HL-2094B-02 (HEPB) BROWN, MICHAEL S, UNIVERSITY OF TEXAS, 5323 HARRY HINES BOULEVARO, OALLAS, TEX. Molecular basis of cholesterol metabolism.

P01HL-2094B-02 0001 (HEPB) BROWN, MICHAEL S. Molecular basis of cholesterol metabolism--Biochemical and ultrastructural characterization of LDL in human fibroblasts.

P01HL-2094B-02 0002 (HEPB) BROWN, MICHAEL S. Molecular basis ot cholesterol metabolism--LOL pathway in cell lines with informative properties other than fibroblasts.

P01HL-2094B-02 0003 (HEPB) BROWN, MICHAEL S. Molecular basis of cholesterol metabolism--LOL pathway in vivo (human, rats, guinea pigs).

P01HL-2094B-02 0004 (HEPB) GOLOSTEIN, JOSEPH L. Molecular basis of cholesterol metabolism--Genetic analysis of the LOL pathway (human).

P01HL-2094B-02 9001 (HEPB) GOLOSTEIN, JOSEPH L. Molecular basis of cholesterol metabolism--Tissue culture core laboratory.

P01HL-2094B-02 9002 (HEPB) ANOERSON, RICHARO G W. Molecular basis of cholesterol metabolism--Microscopy core laboratory.

R01HL-20954-02 (MET) ROHEIM, PAUL S, LOUISIANA STATE UNIVERSITY, 1100 FLORIOA AVENUE, NEW ORLEANS, LA. Hyperlipoproteinemia (rats, human).

R01HL-20956-02 (PHRA) STEER, MICHAEL L, BETH ISRAEL HOSPITAL, 330 BROOKLINE AVENUE, BOSTON, MASS. Early events following stimulation of human platelets.

R01HL-20961-02 (GEN) NUTE, PETER E, UNIVERSITY OF WASHINGTON, OEPT OF ANTHROPOLOGY, OH-05, SEATTLE, WASH. Hemoglobin Y-chain genes--Evolution and inducibility (monkeys, human).

R01HL-20963-01 (PTHA) THAOEPALLI, HARAGOPAL, 12021 SOUTH WILMINGTON AVENUE, LOS ANGELES, CALIF. Experimental lung abscess (rabbits).

R23HL-20968-02 (CVA) SAUNOERS, NICHOLAS A, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Respiratory failure-Control and muscle dysfunction (human).

R01HL-20971-10 (HEM) JAMIESON, GRAHAM A, AMERICAN NATIONAL RED CROSS, 9312 OLO GEORGETOWN ROAO, BETHESOA, MD. Membrane glycoproteins of platelets and leukocytes (human).

R01HL-20979-02 (SGYB) RAOER, ROLANO O, UNIV OF SOUTHERN CALIFORNIA, 815 WEST 37TH STREET, LOS ANGELES, CALIF. A novel pulsed Doppler flowmeter (dogs).

P01HL-209B4-02 (HEPA) MORKIN, EUGENE, UNIVERSITY OF ARIZONA, INTERNAL MEOICINE OEPT, TUCSON, ARIZ. Cellular mechanisms in cardiac hypertrophy.

P01HL-209B4-02 0001 (HEPA) MORKIN, EUGENE. Cellular mechanisms in cardiac hypertrophy-Contractile proteins in cardiac hypertrophy (rabbits, calves).

P01HL-209B4-02 0002 (HEPA) RUPLEY, JOHN A. Cellular mechanisms in cardiac hypertrophy--Thermodynamic, fluorescence, chemical modification of hypertrophied heart myosin.

P01HL-209B4-02 0003 (HEPA) CUSANOVICH, MICHAEL A. Cellular mechanisms in cardiac hypertrophy-Fast kinetics of myosin ATPase from normal and hypertrophied heart (rabbits).

P01HL-209B4-02 0004 (HEPA) GOLL, OARREL E. Cellular mechanisms in cardiac hypertrophy-Myofibril accumulation in cardiac and vascular muscle cells in hypertrophy.

P01HL-209B4-02 0005 (HEPA) ROESKE, WILLIAM R. Cellular mechanisms in cardiac hypertrophy-Neurohumoral receptors in cardiac growth and compensatory hypertrophy (animals).

P01HL-209B4-02 0006 (HEPA) RUSSELL, OIANE H. Cellular mechanisms in cardiac hypertrophy--Early biochemical aspects of cardiac hypertrophy (rats).

P01HL-209B4-02 9001 (HEPA) MORKIN, EUGENE. Cellular mechanisms in cardiac hypertrophy--Animal models and preparation of contractile proteins.

P01HL-209B4-02 9002 (HEPA) ROESKE, WILLIAM R. Cellular mechanisms in cardiac hypertrophy--The heart in organ culture.

P60HL-209B5-01 (SRC) MENTZER, WILLIAM C, JR, SAN FRANCISCO GENERAL HOSPITAL, 1001 POTRERO AVENUE, SAN FRANCISCO, CALIF. Northern California sickle cell center.

P60HL-209B5-01 0001 (SRC) TEMPLE, PATRICIA C. Northern California sickle cell center--Sickle cell anemia quality assurance program.

P60HL-209B5-01 0002 (SRC) AMMANN, ARTHUR J. Northern California sickle cell center--Immunization with polyvalent pneumococcal polysaccharide vaccine (human).

P60HL-209B5-01 0003 (SRC) BRAOLEY, THOMAS B. Northern California sickle cell center--Kinetics of sickling and clinical manifestations in sickling disorders (human).

P60HL-209B5-01 0004 (SRC) CLARK, MARGARET R. Northern California sickle cell center--Characterization of irreversibly sickled cells (human).

P60HL-209B5-01 0005 (SRC) KAN, YUET WAI. Northern California sickle cell center--Molecular mechanism of alpha thalassemia--Relation to sickle cell anemia (human).

P60HL-209B5-01 0006 (SRC) MENTZER, WILLIAM C. Northern California sickle cell center--Antisickling properties of imidoesters (human, rats).

P60HL-209B5-01 0007 (SRC) PETZ, LAWRENCE O. Northern California sickle cell center--Immunohematologic abnormalities in sickle cell anemia (human).

P60HL-209B5-01 000B (SRC) PERSON, RONALO. Northern California sickle cell center--Oemonstration community program--Patient ambudsman.

P60HL-209B5-01 0009 (SRC) MENTZER, WILLIAM C. Northern California sickle cell center--Patient services (children, adults).

P60HL-209B5-01 0010 (SRC) KAN, YUET WAI. Northern California sickle cell center--Prenatal diagnosis of sickle cell anemia.

P60HL-209B5-01 0011 (SRC) WEOLOW, PEGGY. Northern California sickle cell center--SNMA community education program.

R01HL-209B9-01 (CVA) WANNER, AOAM, MOUNT SINAI MEDICAL CENTER, 4300 ALTON ROAO, MIAMI BEACH, FLA. Pathophysiology ot bronchial asthma (sheep, dogs).

P01HL-20993-02 (HEPB) THOMAS, WILBUR A, ALBANY MEDICAL COLLEGE, 47 NEW SCOTLANO AVENUE, ALBANY, N Y. Population dynamics of arterial cells in atherogenesis.

P01HL-20993-02 0001 (HEPB) THOMAS, WILBUR A. Population dynamics of arterial cells in atherogenesis--Arterial SMC population dynamics in atherogenesis (swine).

P01HL-20993-02 0002 (HEPB) SCOTT, R FOSTER. Population dynamics of arterial cells in atherogenesis--Arterial endothelial dynamics in atherogenesis (swine).

P01HL-20993-02 0003 (HEPB) THOMAS, WILBUR A. Population dynamics of arterial cells in atherogenesis--Clonal phenomena in atherogenesis (human, hares).

P01HL-20993-02 0004 (HEPB) KIM, OONG N. Population dynamics of arterial cells in atherogenesis--Moditications of cholesterol balance related to arterial cell divisions (swine).

P01HL-20993-02 0005 (HEPB) LEE, KYU T. Population dynamics of arterial cells in atherogenesis--Drugs other than hypolipidemic drugs affecting atherosclerosis (swine, rabbits).

P01HL-20993-02 0006 (HEPB) OAOUO, ASSAO S. Population dynamics of arterial cells in atherogenesis--Mechanism of regression of atherosclerosis by diet and injury (swine).

P01HL-20993-02 0007 (HEPB) FRITZ, KATHERINE E. Population dynamics of arterial cells in atherogenesis--Interaction of lipoproteins in hypercholesteremia (human, swine).

P01HL-20993-02 000B (HEPB) IMAI, HIOESHIGE. Population dynamics of arterial cells in atherogenesis--Angiotoxicity of cholesterol oxidation in atherogenesis (rabbits).

P01HL-20993-02 0009 (HEPB) REINER, JOHN M. Population dynamics of arterial cells in atherogenesis--Mathematical biology--Core.

P01HL-20993-02 0010 (HEPB) LEE, KYU T. Population dynamics ot arterial cells in atherogenesis--Animal care and development and standardization of animal models--Core.

P01HL-20993-02 0011 (HEPB) FLORENTIN, ROOOLFO A. Population dynamics of arterial cells in atherogenesis--Light and electron microscopy laboratories--Core.

P01HL-20993-02 0012 (HEPB) KLM, OONG N. Population dynamics of arterial cells in atherogenesis--Chemistry laboratory--Core.

P01HL-20993-02 0013 (HEPB) THOMAS, WILBUR A. Population dynamics of arterial cells in atherogenesis--Administration--Core.

P01HL-20994-02 (HEPA) KIMBEL, PHILIP, ALBERT EINSTEIN MEDICAL CENTER, YORK & TABOR ROADS, PHILADELPHIA, PA. Dynamics of neutrophil elastase in the lung.

P01HL-20994-02 0001 (HEPA) COHEN, ALLAN B. Dynamics of neutrophil elastase in the lung--Dynamics of neutrophil elastase in normal animals (dogs, rabbits).

P01HL-20994-02 0002 (HEPA) RODMAN, THEODORE. Dynamics of neutrophil elastase in the lung--Neutrophil and neutrophilic elastase in human lungs.

P01HL-20994-02 0003 (HEPA) WEINBAUM, GEORGE. Dynamics of neutrophil elastase in the lung--Neutrophil elastase flux in models of lung disease (dogs).

P01HL-20994-02 0004 (HEPA) COHEN, ALLAN B. Dynamics of neutrophil elastase in the lung--Mechanism of enzyme inhibition by alpha-1 antitrypsin (cattle).

P01HL-20994-02 0005 (HEPA) KUEPPERS, FRIEDRICH. Dynamics of neutrophil elastase in the lung--Protease inhibitors in pulmonary inflammation and emphysema (rabbits).

P01HL-20994-02 0006 (HEPA) KUEPPERS, FRIEDRICH. Dynamics of neutrophil elastase in the lung--Protease inhibitors in human bronchial mucus.

P01HL-20994-02 0007 (HEPA) WEINBAUM, GEORGE. Dynamics of neutrophil elastase in the lung--The etiology of experimental emphysema (dogs).

P01HL-20994-02 000B (HEPA) KIMBEL, PHILIP. Dynamics of neutrophil elastase in the lung--Structure-function correlation in experimental emphysema (human, dogs).

P01HL-20994-02 0009 (HEPA) ROSENBLOOM, JOEL. Dynamics of neutrophil elastase in the lung--Biosynthesis and degradation of elastin in emphysema (human, hamsters).

P01HL-20994-02 9001 (HEPA) JAMES, HAROLD. Dynamics of neutrophil elastase in the lung--Biochemistry and immunology core.

P01HL-20994-02 9002 (HEPA) DAMIANO, VICTOR V. Dynamics of neutrophil elastase in the lung--Ultrastructural core.

P01HL-20994-02 9003 (HEPA) PETERSEN, ROBERT O. Dynamics of neutrophil elastase in the lung--Autoradiography--Histology core.

R01HL-20996-02 (MCHB) GOEDKEN, VIRGIL L, FLORIDA STATE UNIVERSITY, DEPARTMENT OF CHEMISTRY, TALLAHASSEE, FLA. Structural and reactivity of iron and cobalt complexes.

R01HL-21001-01 (SGYB) COOPER, STUART L, UNIVERSITY OF WISCONSIN, DEPT OF CHEMICAL ENGINEERING, MADISON, WISC. Protein and thrombus deposition on vascular grafts.

P50HL-21006-02 (HLBA) GOODMAN, DE WITT S, COLUMBIA UNIVERSITY, 630 WEST 168TH STREET, NEW YORK, N Y. Specialized center of research in arteriosclerosis.

P50HL-21006-02 0001 (HLBA) GOODMAN, DEWITT S. Specialized center of research in arteriosclerosis--Clinic and core program.

P50HL-21006-02 0002 (HLBA) SMITH, FRANK R. Specialized center of research in arteriosclerosis--Turnover and metabolism of cholesterol in man.

P50HL-21006-02 0003 (HLBA) GOODMAN, DEWITT S. Specialized center of research in arteriosclerosis--Transport of vitamin A in plasma (human, rat).

P50HL-21006-02 0004 (HLBA) GOODMAN, DEWITT S. Specialized center of research in arteriosclerosis--Regulation of growth of human arterial smooth muscle cells by platelets.

P50HL-21006-02 0005 (HLBA) CANNON, PAUL S. Specialized center of research in arteriosclerosis--Regional myocardial perfusion in patient with coronary artery disease (also dogs).

P50HL-21006-02 0006 (HLBA) NOSSEL, HYMIE L. Specialized center of research in arteriosclerosis--Intravascular coagulation and thrombosis in hyperlipidemia (human).

R01HL-2100B-02 (TOX) CHAPPLE, PAUL J, W ALTON JONES CELL SCI CTR, OLD BARN ROAD, LAKE PLACID, N Y. Effect of pollutants on organotypic lung cultures (rats).

R01HL-21009-02 (TOX) SMITH, JAMES R, W ALTON JONES CELL SCI CENTER, OLD BARN ROAD, LAKE PLACID, N Y. Effects of air pollutants on lung cells in culture (rats).

R01HL-21010-02 (SSS) STAMLER, JEREMIAH, NORTHWESTERN UNIVERSITY, 303 EAST CHICAGO AVENUE, CHICAGO, ILL. Glycemia, other traits and CV death in 40,000 persons.

R01HL-21014-01 (PHRA) LEE, KWANG S, S U N Y - DOWNSTATE MED CTR, 450 CLARKSON AVENUE, BROOKLYN, N Y. Mechanism of the inotropic action of cardiac glycosides.

P01HL-21016-02 (HEPB) NAGEL, RONALD L, ALBERT EINSTEIN COLLEGE OF MED, 1300 MORRIS PARK AVENUE, BRONX, N Y. Sickle cell anemia and other hemoglobinopathies.

P01HL-21016-02 0001 (HEPB) NAGEL, RONALD L. Sickle cell anemia and other hemoglobinopathies--Supramolecular models of Hb S--Mutational and EM approach.

P01HL-21016-02 0002 (HEPB) ELBAUM, DANEK. Sickle cell anemia and other hemoglobinopathies--Molecular events proceeding gelation of Hb S.

P01HL-21016-02 0003 (HEPB) BOOKCHIN, ROBERT M. Sickle cell anemia and other hemoglobinopathies--Role of non-S hemoglobin in gelation and sickling.

P01HL-21016-02 0004 (HEPB) HARRINGTON, JOHN. Sickle cell anemia and other hemoglobinopathies--Kinetics of sickling.

P01HL-21016-02 0005 (HEPB) WITTENBERG, JONATHAN. Sickle cell anemia and other hemoglobinopathies--Ligand kinetics in normal and Hb S containing erythrocytes (human).

P01HL-21016-02 0006 (HEPB) BOOKCHIN, ROBERT M. Sickle cell anemia and other hemoglobinopathies--Analysis of the oxygen dissociation curve of Hb S-containing red cells.

P01HL-21016-02 0007 (HEPB) BOOKCHIN, ROBERT M. Sickle cell anemia and other hemoglobinopathies--Cellular determinants of red cell sickling.

P01HL-21016-02 000B (HEPB) ROTH, EUGENE F, JR. Sickle cell anemia and other hemoglobinopathies--The clinical variations of sickle cell anemia.

P01HL-21016-02 0009 (HEPB) ROTH, EUGENE F, JR. Sickle cell anemia and other hemoglobinopathies--Nitrogen mustards and their potential use as antisickling agent.

P01HL-21016-02 0010 (HEPB) ELBAUM, DANEK. Sickle cell anemia and other hemoglobinopathies--Alkylureas as potential anti-sickling agents.

P01HL-21016-02 0011 (HEPB) NAGEL, RONALD L. Sickle cell anemia and other hemoglobinopathies--Metabolic effects of anti-sickling agents (hamsters).

P01HL-21016-02 0012 (HEPB) SKOULTCHI, ARTHUR. Sickle cell anemia and other hemoglobinopathies--Stimulation of Hb F synthesis in a permanent cell line.

P01HL-21016-02 0013 (HEPB) BAEZ, SILVIO. Sickle cell anemia and other hemoglobinopathies--Microcirculatory response to sickle cell treated with anti-sickling agents (rats).

P01HL-21016-02 0014 (HEPB) NAGEL, RONALD L. Sickle cell anemia and other hemoglobinopathies--Human hemoglobin mutants with abnormal oxygen binding.

P01HL-21016-02 001S (HEPB) PEISACH, JACK. Sickle cell anemia and other hemoglobinopathies--EPR study of ND derivatives of Hb Beth Israel (human).

P01HL-21016-02 0016 (HEPB) NADEL, ALFRED J. Sickle cell anemia and other hemoglobinopathies--The treatment of sickle cell retinopathy (human).

P01HL-21016-02 0017 (HEPB) NAGEL, RONALD L. Sickle cell anemia and other hemoglobinopathies--The hereditary clinic core.

P01HL-21016-02 001B (HEPB) TELLEZ-NAGEL, ISABEL. Sickle cell anemia and other hemoglobinopathies--Scanning and transmission electron microscopy.

P01HL-21016-02 0019 (HEPB) NAGEL, RONALD L. Sickle cell anemia and other hemoglobinopathies--Administration core.

R01HL-21030-01 (CVB) JANIS, RONALD A, NORTHWESTERN UNIVERSITY, 303 EAST CHICAGO AVENUE, CHICAGO, ILL. Calcium regulation and hypertension (rats).

R01HL-21032-02 (CVA) CRAWFORD, DONALD W, UNIV OF SOUTHERN CALIFORNIA, 2025 ZONAL AVENUE, LOS ANGELES, CALIF. Injury, wall thickness, and arterial wall oxygenation (dogs, rabbits).

R01HL-21034-01 (CVA) CONRAD, MARGARET C, EASTERN VIRGINIA MEDICAL SCH, POST OFFICE BOX 1980, NORFOLK, VA. Compensatory responses to arterial occlusion (dogs).

R01HL-2103B-01 (CVA) JONES, JANICE L, CASE WESTERN RESERVE UNIV, 2119 ABINGTON ROAD, CLEVELAND, OHIO. Electrically induced cardiac EM-histochemical changes (animals).

R01HL-21039-02 (EDC) WEST, KELLY M, UNIVERSITY OF OKLAHOMA, POST OFFICE BOX 26901, OKLAHOMA CITY, OKLA. Vascular lesions of diabetes in Oklahoma Indians.

R23HL-21042-01 (CVA) KOSTREVA, DAVID R, VETERNAS ADMINISTRATION CENTER, RESEARCH SERVICE 151, WOOD, WIS. Cardiopulmonary reflexes and their anatomical basis (dogs).

R01HL-21047-01 (EVR) GAUNTT, CHARLES J, UNIVERISYT OF TEXAS, 7703 FLOYD CURL DRIVE, SAN ANTONIO, TEX. Studies of coxsackievirus-induced myocarditis in mice.

R23HL-210S0-02 (CVA) PAVLIN, DOROTHY J, UNIVERSITY OF WASHINGTON, BB1469 HEALTH SCIENCES BLDG, SEATTLE, WASH. Mechanisms of reexpansion pulmonary edema (rabbits).

R23HL-210S1-02 (PHRA) LIMBIRD, LEE E, DUKE UNIVERSITY, BOX 3297, DURHAM, N C. Adrenergic receptors and the adenylate cyclase system (frog RBC).

R01HL-210S2-01 (PHRA) GORRY, G ANTHONY, BAYLOR COLLEGE OF MEDICINE, 1200 MOURSUND AVENUE, HOUSTON, TEX. Evaluation of a digitalis therapy advisor.

R23HL-21066-02 (CVB) CAMPBELL, WILLIAM B, UNIVERSITY OF TEXAS, 5323 HARRY HINES BOULEVARD, DALLAS, TEX. Angiotensin and prostaglandin control of aldosterone (rats).

R01HL-21071-02 (SGYB) BONCHEK, LAWRENCE I, MEDICAL COLLEGE OF WISCONSIN, 8700 WEST WISCONSIN AVENUE, MILWAUKEE, WIS. Mechanisms of hypertension in coarctation of the aorta (dog).

R01HL-21076-02 (SGYA) DEMLING, ROBERT H, UNIVERSITY OF WISCONSIN, 1300 UNIVERSITY AVENUE, MADISON, WIS. Lung fluid, protein exchange after hemorrhagic shock (sheep).

R23HL-21083-02 (PHRA) CASTLE, MANFORD C, EASTERN VIRGINIA MED SCHOOL, POST OFFICE BOX 1980, NORFOLK, VA. Pharmacokinetics of digoxin and digitoxin in humans (rats).

R01HL-210BB-02 (EDC) WILLIAMS, ROGER R, UNIVERSITY OF UTAH, DEPT OF INTERNAL MEDICINE, SALT LAKE CITY, UTAH. Genetic patterns in deaths from MI and stroke in Utah.

R23HL-210B9-02 (IMS) LEWIS, ROBERT A, ROBERT B BRIGHAM HOSPITAL, 125 PARKER HILL AVENUE, BOSTON, MASS. Localization of mediators in dispersed lung cells (guinea pigs, human).

R01HL-21092-02 (CVB) CARRETERO, OSCAR A, HENRY FORD HOSPITAL, 2799 W GRAND BLVD, DETROIT, MICH. Factors other than renin in renal hypertension (rats).

R01HL-21094-01 (CVB) BOND, GARY C, MEDICAL COLLEGE OF GEORGIA, DEPT OF PHYSIOLOGY, AUGUSTA, GA. Arterial baroreceptors and renal function (dogs).

R01HL-21095-02 (PBC) GLEISNER, JOHN M, VIRGINIA MASON RESEARCH CENTER, 1000 SENECA STREET, SEATTLE, WASH. Enzymes of M tuberculosis and obstructive lung disease (human, rodents).

R01HL-21096-02 (CTY) WISE, GARY E, UNIVERSITY OF MIAMI, P O BOX 520875, MIAMI, FLA. Sickle cell crisis--Role of the erythrocyte membrane (human).

R01HL-21099-02 (CVA) RHO, JOON H, UNIV OF SOUTHERN CALIFORNIA, 1985 ZONAL AVENUE, LOS ANGELES, CALIF. Subcellular changes of blood vessels in hypertension (rats).

R01HL-21103-01 (CVB) PRICE, JOEL M, UNIVERSITY OF SOUTH FLORIDA, 1290 NORTH 30 STREET, TAMPA, FLA. Parametric mechanical studies of hypertensive arteries (dogs, rats).

R01HL-21105-02 (PHRA) ORLOWSKI, MARIAN, MOUNT SINAI SCHOOL OF MEDICINE, 100TH STREET & FIFTH AVENUE, NEW YORK, N Y. Organ specific drugs--Cardiovascular and renal effects (dogs).

R01HL-21112-02 (CVB) HORTON, RICHARD, UNIV OF SOUTHERN CALIFORNIA, 2025 ZONAL AVENUE, LOS ANGELES, CALIF. Aldosterone binding, clearance, and secretion in man.

R01HL-21113-01 (HEM) JESTY, JOLYON, S U N Y - AT STONY BROOK, DEPT OF MEDICINE-HEMATOLOGY, STONY BROOK, N Y. Control mechanisms in coagulation (cattle).

R01HL-2111S-01 (TOX) BLOCK, EDWARD R, J HILLIS MILLER HEALTH CENTER, BOX J-225, GAINESVILLE, FLA. Prevention of O2 toxicity with superoxide dismutase (rats).

R23HL-21116-02 (PTHA) FRANSON, RICHARD C, VIRGINIA COMMONWEALTH UNIV, BOX 877, RICHMOND, VA. Mechanisms of membrane and tissue damage in lung (dogs, rabbits).

R01HL-21117-01 (AFY) GRAHAM, WILLIAM G, MARY FLETCHER UNIT, MEDICAL CENTER HOSPITAL OF VT , BURLINGTON, VT. Altitude adaptation in chronic lung disease (human).

R01HL-21120-02 (PTHA) KAPLAN, JERRY, UNIVERSITY OF CONNECTICUT, DEPARTMENT OF PHYSIOLOGY, FARMINGTON, CONN Membrane dynamics in alveolar macrophages (rabbits).

R01HL-21126-02 (PTHA) WEISER, PHILIP C, NATIONAL ASTHMA CENTER, 1999 JULIAN STREET, OENVER, COLO. Exercise induced bronchospasm in children.

R23HL-2112B-02 (HEM) DANIEL, JAMES L, TEMPLE UNIVERSITY, 34D0 NORTH BROAD STREET, PHILAOELPHIA, PA. ATP utilization in platelet contractile mechanisms (human, rabbits)

R23HL-21129-02 (HEM) CHAO, TESSA L, LANKENAU HOSPITAL, CITY LINE & LANCASTER AVE, PHILADELPHIA, PA The antisickling effects of imidoesters.

R23HL-21134-02 (PTHA) DAUBER, JAMES H, UNIVERSITY OF PENNSYLVANIA, 3600 SPRUCE STREET, PHILADELPHIA, PA. Immune function and fibrogenesis in silicosis (guinea pigs).

R01HL-21136-02 (PHY) LEE, CHIN O, CORNELL UNIVERSITY, 13D0 YORK AVENUE, NEW YORK, N Y. Ion activities and transport in cardiac muscle cells (sheep).

R01HL-21139-02 (HEM) MC DONAGH, JAN M, UNIVERSITY OF NORTH CAROLINA, SCHOOL OF MEDICINE, CHAPEL HILL, N C. Molecular biology of factor XIII (human).

R01HL-21140-01 (CVA) WOODSIDE, KENNETH H, UNIVERSITY OF MIAMI, P O BOX 520875 BISCAYNE ANNEX , MIAMI, FLA. Studies of pulmonay alveolar macrophage function (rabbits).

R01HL-2114S-02 (CVB) ROBERTS, LOU A, TEXAS TECH UNIV SCH OF MEO, POST OFFICE BOX 4569, LUBBOCK, TEX. Response of atria to hyperosmolality Mechanisms (rabbits).

R23HL-2115O-02 (PHY) DAVIS, BRIAN, UNIVERSITY OF CALIFORNIA, 1315 MOFFITT HOSPITAL, SAN FRANCISCO, CALIF. Regulation of airway mucous glands and ion transport (dogs, ascaris).

R23HL-2115I-02 (PHRA) PATTERSON, RANDOLPH E, MOUNT SINAI SCHOOL OF MEOICINE, 5TH AVENUE & 100TH STREET, NEW YORK, N Y. Ischemic myocardium--Oelivery of blood flow and drugs (dogs).

R01HL-21156-02 (PTHA) LIEBERMAN, JACK, VETERANS ADMINISTRATION HOSP, 16111 PLUMMER STREET, SEPULVEOA, CALIF. Antitrypsin and other causes of chronic lung disease.

R01HL-2115B-02 (CVA) THAMES, MARC D, UNIVERSITY OF IOWA, DEPARTMENT OF INTERNAL MED, IOWA CITY, IOWA. Cardiac receptors with vagal C-fiber afferents (cats).

R01HL-2115S-02 (AFY) OU, LO-CHANG, OARTMOUTH MEDICAL SCHOOL, DEPARTMENT OF PHYSIOLOGY, HANOVER, N H. Pathophysiological effects of hypoxia (rats).

R23HL-21167-02 (CVB) ARONSON, RONALD S, ALBERT EINSTEIN COLL OF MED, 13D0 MORRIS PARK AVENUE, BRONX, N Y. The electrophysiology of cardiac hypertrophy (rats).

R23HL-2116B-01 (CVA) FRIEDMAN, MITCHELL, UNIVERSITY OF NORTH CARDLINA, DIV OF PULMONARY DISEASES, CHAPEL HILL, N C. Hypoxemic respiratory failure--Physiologic evaluation (human, dogs).

R01HL-21170-01 (BBCB) SUDDATH, FRED L, UNIVERSITY OF ALABAMA, UNIVERSITY STATION, BIRMINGHAM, ALA. Molecular structure of human serum transferrin.

R01HL-21172-02 (PHY) WEISS, HARVEY R, RUTGERS MEOICAL SCHOOL, POST OFFICE BOX 101, PISCATAWAY, N J. Regional oxygen consumption of heart and other organs (animals).

R01HL-21176-02 (CVA) LUMB, ROGER H, WESTERN CAROLINA UNIVERSITY, BOX 374B, CULLOWHEE, N C. Phospholipid exchange proteins in lung tissue (lambs).

R01HL-21179-01 (PHY) CALA, PETER M, UNIVERSITY OF CALIFORNIA, OEPT OF HUMAN PHYSIDLOGY, OAVIS, CALIF. Volume regulation--Role of the membrane potential (amphiuma).

R01HL-211B2-02 (CVB) HAMRELL, BURT B, UNIVERSITY DF VERMONT, GIVEN BUILDING, BURLINGTON, VT. Active tension and shortening in cardiac hypertrophy (rabbits).

R01HL-211B7-01 (CVB) HENRY, PHILIP D, WASHINGTON UNIVERSITY, 660 SOUTH EUCLID AVENUE, ST LOUIS, MO. Potassium, norepinephrine, and coronary arterial tone (dogs).

R01HL-211BB-02 (SGYB) BLACKSHEAR, PERRY L, JR, UNIVERSITY OF MINNESOTA, MECHANICAL ENGINEERING DEPT, MINNEAPOLIS, MINN. Pulsatory water flux and endothelial cell desquamation.

R23HL-211B9-01 (CTY) MAKARSKI, JOSEPH S, BOSTON UNIVERSITY, 8D EAST CONCORD STREET, BOSTON, MASS. Regulation of pulmonary endothelial cell activities (human, cattle).

R01HL-21194-02 (SGYB) WILSON, JOSEPH E, BISHOP COLLEGE, 3837 SIMPSON - STUART RD, DALLAS, TEX. Development of antithrombogenic plastic biomaterials.

R01HL-2119S-02 (PHY) HARTZELL, HARRISON C, JR, EMORY UNIVERSITY, ANATOMY DEPARTMENT, ATLANTA, GA. Innervation of the heart--Acetylcholine receptors (frogs).

R23HL-21196-02 (PHRA) RHEE, HEE M, MEDICAL COLLEGE OF OHIO, C S 1DDD8, TOLEOD, OHIO. Digitalis induced arrhythmia and NAD K0-atpase activity (dogs).

R23HL-21197-02 (CVA) MEIER, GEORGE D, TEMPLE UNIVERSITY, 342D NORTH BROAD STREET, PHILADELPHIA, PA. Right ventricular contraction and relaxation (dogs).

R23HL-21199-02 (AFY) RICE, DAVID A, DHIO STATE UNIVERSITY, VETERINARY PHYSIO & PHARM DEPT, COLUMBUS, OHIO. Sound transmission in lung (dog).

R23HL-21203-02 (PHRA) SYNHORST, DAVID P, UNIVERSITY OF UTAH, DEPARTMENT OF PEDIATRICS, SALT LAKE CITY, UTAH Effect of vasoactive agents on left-to-right shunts (lambs).

R23HL-2120B-02 (HEM) SWITZER, MARY E, DUKE UNIVERSITY, BOX 3705, OURHAM, N C Structure-function relationships of human factor VIII.

R01HL-21209-02 (CVA) LIEDTKE, A JAMES, PENNSYLVANIA STATE UNIVERSITY, MILTON S HERSHEY MED CENTER, HERSHEY, PA. Alterations of metabolism in ischemic myocardium (swine).

R01HL-21210-01 (SGYB) HILBERMAN, MARK, STANFORD UNIVERSITY, OEPARTMENT OF ANESTHESIA, STANFORD, CALIF. Acute renal failure following cardiac surgery (human).

R23HL-21212-02 (BM) HARVATH, LIANA, V A WEST SIDE HOSPITAL, 820 SOUTH OAMEN AVENUE, CHICAGO, ILL. Alveolar macrophage function in Pseudomonas infection (dgs).

R23HL-21213-01 (PHY) STOUT, MARGUERITE A, NEW JERSEY MEOICAL SCHOOL, 100 BERGEN STREET, NEWARK, N J. A model for calcium homeostasis in excitable tissue (marine worms).

R01HL-21217-01 (CTY) RUDNICK, GARY W, YALE UNIVERSITY, DEPARTMENT OF PHARMACOLOGY, NEW HAVEN, CONN Ion and 5-hydroxytryptamine transport by platelets

R01HL-21221-02 (PHRA) HARRISON, DONALD C, STANFORD UNIVERSITY, CARDIOLOGY DIVISION, STANFORD, CALIF Clinical antiarrhythmic and pharmacodynamic studies

R23HL-21225-02 (PBC) MECHAM, ROBERT P, WASHINGTON UNIVERSITY, 66D SOUTH EUCLID, ST LOUIS, MO Connective tissue precursor molecules in the lung (rabbits, hamsters)

R23HL-21234-02 (CVB) BOUCEK, ROBERT J, JR, VANDERBILT UNIVERSITY, DIV OF PEDIATRIC CARDIOLOGY, NASHVILLE, TENN The regulation of cardiac hypertrophy (rabbits)

R01HL-21239-02 (PHRA) SMITH, J BRYAN, THOMAS JEFFERSON UNIVERSITY, 1015 WALNUT STREET, PHILADELPHIA, PA. Isolation and mechanism of action of thromboxane A2 (human, rabbits)

R01HL-21245-02 (AFY) TIPTON, CHARLES M, UNIVERSITY OF IOWA, OEPT/PHYSIOLOGY AND BIOPHYSICS, IOWA CITY, IOWA Influence of chronic exercise on hypertension (rats, primates).

R01HL-21246-02 (PC) CHANG, TA-YUAN, DARTMOUTH MEOICAL SCHOOL, DEPARTMENT OF BIOCHEMISTRY, HANOVER, N H. Roles of cholesterol and its metabolic regulation (CHO cell mutants).

R23HL-21247-02 (PC) SLATER, EVE E, MASSACHUSETTS GENERAL HOSPITAL, 32 FRUIT STREET, BOSTON, MASS Purification of renal renin (human)

R23HL-21251-01 (PC) SMITH, FRED, NEW YORK MEDICAL COLLEGE, DEPARTMENT OF PATHOLOGY, VALHALLA, N Y Metabolism of neutral lipids in the pulmonary alveolus (rabbits).

R23HL-21253-01 (COM) BALLARD, DANA H, UNIVERSITY OF ROCHESTER, OEPARTMENT OF COMPUTER SCIENCE, ROCHESTER, N Y Anatomical models in computer-aided image analysis.

R01HL-21257-02 (PHY) OREM, JOHN M, TEXAS TECH UNIV SCH OF MEO, POST OFFICE BOX 4569, LUBBOCK, TEX. Breathing in sleep--Airway control and blood gases (cats).

R01HL-21260-02 (CVB) RUDEL, LAWRENCE L, WAKE FOREST UNIVERSITY, BOWMAN GRAY SCHOOL OF MEDICINE, WINSTON-SALEM, N C. Risk factor relationships of atherosclerosis (monkeys).

R23HL-21262-02 (CVB) SUTKO, JOHN L, UNIVERSITY OF TEXAS, 5323 HARRY HINES BOULEVARD, OALLAS, TEX. Sodium-calcium interactions in mammalian myocardium (rabbits, cats).

R01HL-21270-01 (SGYB) FRIEDMAN, MORTON H, THE JOHNS HOPKINS UNIVERSITY, JOHN HOPKINS ROAO, LAUREL, MARYLAND. Correlation of arterial hemodynamics and morphology (human).

R23HL-21271-02 (SGYB) KARIC, LUCIJA STANCIC, PACIFIC MEDICAL CENTER, POST OFFICE BOX 7999, SAN FRANCISCO, CALIF. Extracorporeal circulation and protein denaturation (human).

R01HL-21272-02 (CVB) KIRSCHENBAUM, MICHAEL A, UNIVERSITY OF CALIFORNIA, OEPARTMENT OF MEOICINE, LOS ANGELES, CALIF. Sodium homeostasis and renal prostaglandins (dogs).

R01HL-21273-02 (RAD) HARWIG, JOHN F, UNIV OF SOUTHERN CALIFORNIA, 1985 ZONAL AVENUE, LOS ANGELES, CALIF. Fibrinogen fabeling with radiometals.

R01HL-21274-01 (CVB) SEALEY, JEAN E, CORNELL UNIVERSITY, 13OD YORK AVENUE, NEW YORK, N Y. Prorenin--Physiological and biochemical analysis (human).

R01HL-21276-02 (RAD) DEUTSCH, EDWARD A, UNIVERSITY OF CINCINNATI, DEPARTMENT OF CHEMISTRY, CINCINNATI, OHIO. Development of 99-mTc myocardial imaging agents.

R01HL-2127B-01 (CVA) POPP, RICHARD L, STANFORD UNIVERSITY, CAROIOLOGY OIVISION, STANFORD, CALIF. Abnormal cardiac wall motion viewed ultrasonically (human, dogs, phantoms).

R23HL-21279-02 (RAD) BARNDT, ROBERT, JR, UNIV OF SOUTHERN CALIFORNIA, 2025 ZONAL AVENUE, LOS ANGELES, CALIF. Angiographic estimation of atherosclerotic wall thickness.

R01HL-212B2-01 (SSS) SENAY, LEO C, JR, ST LOUIS UNIVERSITY, 14D2 SOUTH GRAND, ST LOUIS, MD. Oynamics of interstitial space in whole animals (rats).

R01HL-212B3-02 (CVB) GESELOWITZ, DAVID B, PENNSYLVANIA STATE UNIVERSITY, 328 HAMMOND BUILDING, UNIVERSITY PARK, PA. Simulation studies of the ECG in acute ischemia (and human).

R23HL-21291-02 (CVB) TAN, SIANG Y, MEDICAL COLLEGE OF OHIO, OEPARTMENT OF MEOICINE, TOLEDO, OHIO. Renin-mineralocorticoid axis in hypertensive diabetics (human).

R23HL-21292-01 (CVB) HOROWITZ, LEONARD N, UNIVERSITY OF PENNSYLVANIA, 34D0 SPRUCE STREET, PHILADELPHIA, PA. Human ventricular activation--Patterns and mechanisms (human).

R01HL-21293-02 (SGYB) KLOSTER, FRANK E, UNIVERSITY OF OREGON, 3181 S W SAM JACKSON PARK ROAD, PORTLAND, OREG. Randomized study of coronary bypass surgery (human).

R01HL-21294-02 (PHY) SACHS, FREDERICK, S U N Y - SCHOOL DF MEDICINE, 127 FARBER HALL, BUFFALO, N Y. Voltage clamp of isolated cardiac Purkinje cells (dogs).

R23HL-2129B-02 (CVA) SCHWARTZ, JEFFREY S, UNIVERSITY OF MINNESOTA, BOX 194 MAYO MEMORIAL BLDG, MINNEAPOLIS, MINN. Coronary vasomotion (dogs, pigs).

R01HL-21303-02 (PBC) LAYMAN, DON L, UNIVERSITY OF OREGON, RESEARCH BUILDING ROOM 416, PORTLAND, OREG. Collagen synthesis by cultured human vascular cells.

R01HL-21307-01 (AFY) CROW, RICHARD S, UNIVERSITY OF MINNESOTA, LAB OF PHYSIOLOGICAL HYGIENE, MINNEAPOLIS, MINN. Risk reduction and exercise fitness in a population.

R01HL-2130B-01 (CVB) NIES, ALAN S, UNIVERSITY OF COLORADO, DIV OF CLINICAL PHARMACOLOGY, OENVER, COLO. Prostaglandins and local control of the circulation (rats, dogs).

R01HL-21312-01 (PHY) MAUGHAN, DAVID W, UNIVERSITY OF VERMONT, PHY & BIOPHYSICS OEPARTMENT, BURLINGTON, VT. Sarcomere mechanics in disrupted ventricular muscle (guinea pigs).

R01HL-21314-02 (CVA) MARIN, MATTHEW G, UNIVERSITY OF ROCHESTER, 6D1 ELMWOOD AVENUE, ROCHESTER, N Y. Respiratory tract secretion of ions, water and mucus (human, dogs).

R01HL-2131B-02 (SSS) MIKLICH, DONALD R, NATIONAL ASTHMA CENTER, 1999 JULIAN STREET, OENVER, COLO. Mechanisms of emotions' asthma triggering effect (human).

R01HL-21319-02 (SSS) VAN EGEREN, LAWRENCE F, MICHIGAN STATE UNIVERSITY, A 227C EAST FEE HALL, EAST LANSING, MICH. Interpersonal stress and coronary-prone behavior (human).

R23HL-21320-02 (PHRA) NEMECEK, GEORGINA M, UNIV OF MASSACHUSETTS, 55 LAKE AVENUE NORTH, WORCHESTER, MASS. Cyclic nucleotide metabolism in vascular endothelium.

R01HL-21323-02 (SSS) TAUB, EDWARD, INSTITUTE/BEHAVIORAL RESEARCH, 2429 LINDEN LANE, SILVER SPRING, MD. Raynaud's disease and temperature self-regulation (human).

R23HL-21325-02 (CVB) KRUEGER, JOHN W, ALBERT EINSTEIN COLLEGE OF MEO, 1300 MORRIS PARK AVENUE, BRONX, N Y. Sarcomere kinematics in cardiac contraction (rats, rabbits).

R23HL-21327-02 (PTHA) BOOR, PAUL J, UNIVERSITY OF TEXAS, PATHOLOGY OEPARTMENT, GALVESTON, TEX. Molecular mechanisms of chemical myocardiopathies (rats).

R23HL-21328-02 (PBC) OPPENHEIM, JOEL D, NEW YORK UNIVERSITY, DEPARTMENT OF MICROBIOLOGY, NEW YORK, N Y. The I blood group antigen of human erythrocyte membrane.

R01HL-21329-02 (PHRA) VENTER, J CRAIG, S U N Y - AT BUFFALO, 122 CAPEN HALL, BUFFALO, N Y. Beta-receptor regulation and cardiac sites of drug action (cat, guinea pig, rat) .

R23HL-21332-02 (CVB) LA LONE, BRIAN J, ARIZONA HEALTH SCIENCES CENTER, PHYSIOLOGY OEPARTMENT, TUCSON, ARIZ. Pulsatile regulation of flow in the microcirculation (cats).

R01HL-21342-02 (CVA) BARR, LLOYD, UNIVERSITY OF ILLINOIS, 524 BURRILL HALL, URBANA, ILL. Isolation and analysis of sodium channel from heart (frogs).

R23HL-21347-02 (SGYB) PRITCHETT, EDWARD L, OUKE UNIVERSITY, BOX 3477, DURHAM, N C. Accessory pathways and supraventricular tachycardia.

R01HL-21351-02 (CVB) WEEMS, WILLIAM A, UNIVERSITY OF TEXAS, POST OFFICE BOX 2D708, HOUSTON, TEX. Renal and vascular control by sympathetic ganglia (animals).

R01HL-21352-02 (EDC) BOUHUYS, AREND, YALE UNIVERSITY, 333 CEOAR STREET, NEW HAVEN, CONN. Community studies of obstructive lung disease (human).

R01HL-21367-02 (MCHA) IRELAND, ROBERT E, CALIFORNIA INST OF TECHNOLOGY, OIV OF CHEM & CHEM ENG 164-3D , PASAOENA, CALIF. Polyether ionophores--Synthesis of X537A and analogs.

R23HL-21368-02 (CVA) DANILO, PETER, JR, COLL OF PHYSICIANS & SURGEONS, DEPARTMENT OF PHARMACOLOGY, NEW YORK, N Y. Perinatal cardiac electrophysiology (dogs).

R23HL-21369-02 (PTHA) CLARK, JEFFREY N, OAK RIDGE NATIONAL LABORATORY, POST OFFICE BOX Y, OAK RIDGE, TENN. Tracheal mucin synthesis in experimental bronchitis (rats).

R01HL-21371-02 (MCHB) JOHNSON, DALE E, UNIVERSITY OF WASHINGTON, CENTER FOR BIOENGINEERING, SEATTLE, WASH. Energy loss microanalysis of myocardial cations.

R01HL-21376-02 (CVA) WANGENSTEEN, O DOUGLAS, UNIVERSITY OF MINNESOTA, 435 OELAWARE ST, S E, MINNEAPOLIS, MINN. Blood-gas barrier solute and water transport (rabbits).

R01HL-21379-01 (HEM) MARDER, VICTOR J, UNIVERSITY OF ROCHESTER, 601 ELMWOOO AVENUE, ROCHESTER, N Y. Structure of factor VIII-Von Willebrand protein (human).

R01HL-21381-02 (MET) TAEGTMEYER, HEINRICH, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Amino acid metabolism in normal and hypoxic myocardium (rabbits).

R23HL-21382-02 (CVB) GOTSHALL, ROBERT W, WRIGHT STATE UNIVERSITY, BOX 927, OAYTON, OHIO. Effect of pressure on renal blood flow and function (dogs).

R23HL-21393-01 (CVA) WHITMAN, VICTOR, PENNSYLVANIA STATE UNIVERSITY, MILTON S HERSHEY MEOICAL CTR, HERSHEY, PA. Cardiac adaptation to aging and stress (rats).

R01HL-21394-02 (PC) SOFFER, RICHARD L, CORNELL UNIVERSITY, OEPT OF MEOICINE & BIOCHEM, NEW YORK, N Y. Pulmonary angiotensin-converting enzyme (rabbits).

R23HL-21396-02 (PTHA) PICCIANO, PAUL T, ALBERT EINSTEIN COLLEGE OF MEO, OEPT, BRONX, NY. Isolation, growth and metabolism of type 1 pneumocytes (rabbits).

R01HL-21403-02 (HEM) SHUMAN, MARC A, UNIVERSITY OF CALIFORNIA, 1282 MOFFITT HOSPITAL, SAN FRANCISCO, CALIF. Blood clotting kinetics studied by radioimmunoassay (human).

R01HL-21404-01 (BBCB) KAUFFMAN, JOHN W, NORTHWESTERN UNIVERSITY, THE TECHNOLOGICAL INSTITUTE, EVANSTON, ILL. Raman spectroscopy of erythrocyte and model membranes (human).

R23HL-21405-01 (HED) STARK, ANN R, BOSTON HOSPITAL FOR WOMEN, 221 LONGWOOD AVENUE, BOSTON, MASS. Respiratory muscles in regulation of infant breathing (human).

R23HL-21409-02 (HED) CLYMAN, RONALD I, UNIVERSITY OF CALIFORNIA, PARNASSUS AVENUE, SAN FRANCISCO, CALIF. Perinatal control of the ductus arteriosus (sheep).

R23HL-21411-02 (PBC) SCHLESINGER, PAUL H, WASHINGTON UNIVERSITY, 660 SOUTH EUCLIO, ST LOUIS, MO. Control of extracellular lysosomal hydrolase levels (rats).

R23HL-21413-02 (PBC) MC GOWAN, ELEANOR B, S U N Y OOWNSTATE MEOICAL CTR, 450 CLARKSON AVENUE, BROOKLYN, N Y. Structure and function of platelet calcium-binding protein (human).

R01HL-21416-02 (PTHA) HUNT, CHARLES, UNIVERSITY OF ALABAMA, UNIVERSITY STATION, BIRMINGHAM, ALA. Atherosclerosis in new modles of diabetes mellitus.

R01HL-21418-02 (CVB) WEXLER, BERNARD C, MAY INSTITUTE FOR MEOICAL RES, 421 RIOGEWAY AVENUE, CINCINNATI, OHIO. Experimental myocardial infarction (rats).

R23HL-21421-01 (BIO) WEBER, HERBERT, ALBERT EINSTEIN COLL OF MEO, 1300 MORRIS PARK AVENUE, BRONX, N Y Myocardial and vascular contractility and cyclic nucleotides (cattle, rats)

R01HL-21425-02 (CVB) MC MAHON, THOMAS A, HARVARO UNIVERSITY, 29 OXFORO STREET, CAMBRIOGE, MASS. Servo-simulated compliance changes--A reversible MI (dogs).

R01HL-21426-02 (SSS) ERICKSON, JAMES R, UNIVERSITY OF TEXAS, OEPARTMENT OF PSYCHOLOGY, ARLINGTON, TEX. Learned heart rate control (human).

R01HL-21427-02 (SSS) FRIEDMAN, MEYER, POST OFFICE BOX 7921, SAN FRANCISCO, CALIF. Behavioral changes in post infarction patients.

R23HL-21428-02 (HEM) ORKIN, STUART H, CHILOREN'S HOSPITAL MEO CENTER, 300 LONGWOOO AVENUE, BOSTON, MASS. Expression of human globin in thalassemia (human).

R01HL-21429-02 (PTHA) COLTON, CLARK K, MASSACHUSETTS INST OF TECH, OEPT OF CHEMICAL ENGINEERING, CAMBRIDGE, MASS. Transport of LDL in arterial wall (human, mammals).

R01HL-21431-02 (HEM) CORRIGAN, JAMES J, JR, UNIVERSITY OF ARIZONA, DEPARTMENT OF PEOIATRICS, TUCSON, ARIZ. Factor II antigen and coagulant activity (human, animals).

R23HL-21434-02 (PHY) STOWE, DAVID F, MEDICAL COLL OF WISCONSIN, 561 NORTH 15TH STREET, MILWAUKEE, WIS. Intrinsic control of coronary blood flow by chemicals (guinea pigs).

R01HL-21435-02 (CVB) YOUNG, DAVID B, UNIVERSITY OF MISSISSIPPI, 25DD NORTH STATE STREET, JACKSON, MISS. Control, cardiovascular and renal effects of potassium (dogs).

R01HL-21436-02 (CVB) WEAVER, LYNNE C, MICHIGAN STATE UNIVERSITY, OEPARTMENT OF PHYSIOLOGY, EAST LANSING, MICH. Autonomic control of renal function (cats).

R01HL-21438-02 (PTHA) GERRITY, ROSS G, CLEVELANO CLINIC FOUNDATION, 95DD EUCLIO AVENUE, CLEVELAND, OHIO. Structure and permeability of arterial endothelium (pigs).

R01HL-21444-02 (CVA) MOTOYAMA, ETSURO K, YALE UNIVERSITY, 333 CEDAR STREET, NEW HAVEN, CONN. Pulmonary mechanics during postnatal development (human).

R01HL-21451-01 (AFY) PROPPE, DUANE W, UNIVERSITY OF TEXAS, 7703 FLOYD CURL ORIVE, SAN ANTONIO, TEX. Control of circulation during heat stress and fever (baboon).

R01HL-21452-02 (CVA) SPATH, JAMES A, JR, JEFFERSON MEOICAL COLLEGE, 102D LOCUST STREET, PHILADELPHIA, PA. Pulmonary capillary filtration in myocardial ishemia (dogs).

R01HL-21457-01 (SSS) FULLERTON, DWIGHT S, OREGON STATE UNIVERSITY, SCHOOL OF PHARMACY, CORVALLIS, OREG. C(17)-side group geometry and cardenolide activity (cats, guinea pigs).

R01HL-21460-02 (SSS) LEES, ROBERT S, MASSACHUSETTS INST OF TECH, 4D AMES STREET, CAMBRIDGE, MASS. Lipoproteins, hemostasis and atherosclerosis (human, rabbits).

R01HL-21461-01 (MCHB) MC LENDON, GEORGE L, UNIVERSITY OF ROCHESTER, OEPARTMENT OF CHEMISTRY, ROCHESTER, N Y. Heme group protein interactions in hemoproteins.

R23HL-21462-02 (CVB) CAMPBELL, KENNETH B, WASHINGTON STATE UNIVERSITY, COLLEGE OF VETERINARY MEDICINE, PULLMAN, WASH. Mechanical interactions between ventricle arteries (dogs).

R01HL-21469-01 (HEM) LEE, KWANG S, S U N Y AT OOWNSTATE, 450 CLARKSON AVENUE, BROOKLYN, N Y. Active transport and effect of CA00 in sickle cell (human).

R01HL-21471-02 (PC) ELZINGA, MARSHALL, BROOKHAVEN NATL LABORATORY, BIOLOGY OEPARTMENT, UPTON, N Y. Structure-function studies on actin and myosin (human, protozoa, rabbits, cattle).

R01HL-21476-02 (PHRA) FELDMAN, STUART, UNIVERSITY OF HOUSTON, 48D0 CALHOUN BLVO, HOUSTON, TEX. Anticoagulant drug absorption interactions (rats).

R01HL-21480-01 (PBC) LYNN, WILLIAM S, OUKE UNIVERSITY, POST OFFICE BOX 3711, OURHAM, N C. Structure, source and functions of alveolar glycoproteins (human, rabbits).

R01HL-21482-01 (CVA) SCHEUER, JAMES, MONTEFIORE HOSP & MEO CENTER, 111 EAST 210TH STREET, BRONX, N Y. Cardiac function and metabolism in diabetes (rats).

R01HL-21483-01 (BBCA) SZABO, ATTILA, INOIANA UNIVERSITY, OEPARTMENT OF CHEMISTRY, BLOOMINGTON, INO. Electronic, thermodynamic and kinetics of hemoglobin.

R01HL-21487-01 (HEM) PHILLIPS, DAVID R, ST JUOE CHILOREN'S RES HOSP, 332 N LAUOEROALE, MEMPHIS, TENN. Molecular characterization of Glanzmann's thrombasthenia (human).

R23HL-21488-01 (PBC) STAFFORD, WALTER F, III, BRANOEIS UNIVERSITY, SOUTH STREET, WALTHAM, MASS. Myosin-linked regulation in vertebrate smooth muscle (calf aorta).

R23HL-21490-02 (HEM) SILK, SUSAN T, N Y HOSP-CORNELL MEOICAL CTR, 525 EAST 68TH STREET, NEW YORK, N Y. Studies of enzymes in human platelet membranes.

R01HL-21493-02 (CVB) PANG, DAVID C, VIRGINIA COMMONWEALTH UNIV, MEOICAL COLLEGE OF VIRGINIA, RICHMONO, VA. Contractility in cardiac failure (hamsters).

R01HL-21498-02 (CVB) GRANGER, HARRIS J, TEXAS A & M UNIVERSITY, OEPARTMENT OF PHYSIOLOGY, COLLEGE STATION, TEX. Pathophysiology of edema (rats, cats).

R01HL-21500-02 (CVA) ROCHESTER, DUDLEY F, UNIVERSITY OF VIRGINIA, SCHOOL OF MEOICINE, CHARLOTTESVILLE, VA. Performance of respiratory muscles under stress (dogs).

R23HL-21504-02 (PBC) KELLEY, JASON, UNIVERSITY OF VERMONT, COLLEGE OF MEOICINE, BURLINGTON, VT. Collagen synthesis in pulmonary fibrosis cells (human).

R01HL-21513-02 (NTN) HOLMAN, RALPH T, UNIVERSITY OF MINNESOTA, 8D1 16TH AVENUE N E, AUSTIN, MINN. Metabolism of trans fatty acids (human, rats, swine).

R01HL-21518-01 (CVA) MITCHELL, RICHARD R, INSTITUTES OF MEOICAL SCIS, POST OFFICE BOX 7999, SAN FRANCISCO, CALIF. Improvement in regional ventilation-perfusion resolution (human).

R01HL-21523-01 (CVB) SULLIVAN, JAY M, 951 COURT AVENUE, MEMPHIS, TENN. Hemodynamic effects of dietary sodium in man.

R01HL-21525-02 (CVB) HADDY, FRANCIS J, UNIFORMED SERVS UNIV/HLTH SCIS, 4301 JONES BRIOGE ROAO, BETHESOA, MO. Effect of cations, anions and water upon blood vessels (dogs, rats).

R01HL-21527-01 (EDC) RAHIMTOOLA, SHAHBUDIN H, UNIVERSITY OF OREGON, 3181 SW SAM JACKSON PARK ROAO , PORTLANO, OREG. Prospective study of bundle branch block (human).

R01HL-21532-02 (SSS) MILLER, NEAL E, ROCKEFELLER UNIVERSITY, 1230 YORK AVENUE, NEW YORK, N Y. Cardiovascular homeostasis and learning (frogs, rats, human).

R01HL-21533-02 (SGYB) CHESEBRO, JAMES H, MAYO FOUNOATION, 2DD FIRST STREET SOUTHWEST, ROCHESTER, MINN. Platelet inhibitor drug in coronary surgery (human).

R23HL-21539-02 (CVA) EVANS, JOHN N, UNIVERSITY OF VERMONT, PHYSIOLOGY & BIOPHYSICS OEPT, BURLINGTON, VT. Mechanical properties of isolated small bronchioles (rabbits).

R01HL-21540-02 (PC) GERATZ, J DIETER, UNIVERSITY OF NORTH CAROLINA, OEPARTMENT OF PATHOLOGY, CHAPEL HILL, N C. Specific inhibitors of coagulation and fibrinolysis (rats, rabbits, dogs).

R01HL-21543-02 (HEM) FURIE, BRUCE, NEW ENGLAND MEDICAL CTR HOSP, 171 HARRISON AVENUE, BOSTON, MASS. Structure-function relation of blood clotting proteins (rabbits).

R01HL-21544-02 (HEM) GRIFFIN, JOHN H, SCRIPPS CLINIC & RESEARCH FDN, 10666 NORTH TORREY PINES ROAD , LA JOLLA, CALIF Proteins of coagulation and Hageman factor pathways (human, goats).

R01HL-21548-01 (PTHA) GUREWICH, VICTOR, ST ELIZABETH'S HOSPITAL, 736 CAMBRIDGE STREET, BOSTON, MASS. Pathogenesis of pulmonary thromboembolic disease (human, mammals).

R23HL-21559-01 (CVA) SCHNEIDERMAN, GARY, MASSACHUSETTS INST OF TECH, 77 MASSACHUSETTS AVENUE, CAMBRIDGE, MASS. Oxygen supply and blood flow through aortic vasa vasorum (dogs).

R01HL-21565-02 (PTHA) HENSON, PETER M, NATIONAL JEWISH HOSPITAL, 3800 E COLFAX AVENUE, DENVER, COLO. Pathogenesis of inflammatory lung injury (rats, rabbits).

R01HL-21568-02 (CVA) RYAN, UNA S, UNIVERSITY OF MIAMI, P O BOX 520875, BISCAYNE ANNEX, MIAMI, FLA. Cell biology of the alveolar-capillary unit (animals).

R01HL-21570-01 (CVA) COOPER, GEORGE, IV, UNIVERSITY OF IOWA, DEPT OF INTERNAL MEDICINE, IOWA CITY, IOWA. The mechanical basis of myocardial energetics (cats).

R01HL-21572-01 (SGYB) STRANDNESS, DONALD E, JR, UNIVERSITY OF WASHINGTON, DEPARTMENT OF SURGERY, SEATTLE, WASH. Natural history of the postphlebitic syndrome.

R01HL-21574-01 (CVB) TSE, WARREN W, UNIVERSITY OF HEALTH SCIENCES, 2020 WEST OGDEN STREET, CHICAGO, ILL. Automaticity of AV node and its adjacent tissues (dogs).

R01HL-21578-01 (AFY) GOLDRING, DAVID, ST LOUIS CHILDREN'S HOSPITAL, 500 S KINGSHIGHWAY BOULEVARD, ST LOUIS, MO. Effect of exercise upon the hypertensive adolescent.

P01HL-21584-02 (HLBA) HYATT, ROBERT E, MAYO FOUNDATION, 200 FIRST STREET SOUTHWEST, ROCHESTER, MINN. Respiratory mechanics in normal and abnormal states.

P01HL-21584-02 0001 (HL8A) WILSON, THEODORE A. Respiratory mechanics in normal and abnormal states--Engineering analysis of lung deformation (human, animals).

P01HL-21584-02 0002 (HLBA) RODARATE, JOSEPH R. Respiratory mechanics in normal and abnormal states--Lung mechanics--Regional deformation and ventilation (dogs).

P01HL-21584-02 0003 (HLBA) REHDER, KAI. Respiratory mechanics in normal and abnormal states--Effects of anesthesia on ventilation and respiratory mechanics in man.

P01HL-21584-02 0004 (HLBA) HYATT, ROBERT E. Respiratory mechanics in normal and abnormal states--Effects of anesthesia on respiratory mechanics (dogs).

P01HL-21584-02 0005 (HL8A) RUSSELL, JAMES A. Respiratory mechanics in normal and abnormal states--Regulation, and behavior of airway smooth muscle (human, animals).

P01HL-21584-02 0006 (HL8A) HYATT, ROBERT E. Respiratory mechanics in normal and abnormal states--Respiratory mechanics in health and disease (human, pigs).

P01HL-21584-02 9001 (HLBA) LAI-FOOK, STEPHEN J. Respiratory mechanics in normal and abnormal states--Technical and equipment core.

P01HL-21584-02 9002 (HLBA) CHEVALIER, PETER A. Respiratory mechanics in normal and abnormal states--Computational and statistical core facility.

R01HL-21589-01 (RAD) ALS, ANN V, HARVARD MEDICAL SCHOOL, 330 BROOKLINE AVENUE, BOSTON, MA. Radiographic contrast toxicity in ischemic heart.

R01HL-21592-01 (PTHA) KOTTKE, BRUCE A, MAYO FOUNDATION, 200 FIRST STREET, S W, ROCHESTER, MINN. Lipoproteins and coagulation factors in atherosclerosis (pigeons).

R01HL-21612-02 (SRC) DEGEMA, THEODORE R, UNIVERSITY OF MINNESOTA, 412 UNION STREET SOUTHEAST, MINNEAPOLIS, MINN. Biochemistry of lung proteoglycans (human, rabbits).

R01HL-21615-01 (PBC) WEISSMANN, BERNARD, UNIVERSITY OF ILLINOIS, 835 SOUTH WOLCOTT STREET, CHICAGO, ILL. Structural studies of lung heparinoid polysaccharides (cattle).

R01HL-21617-02 (SRC) EHRLICH, KENNETH C, GULF SOUTH RESEARCH INSTITUTE, POST OFFICE BOX 26500, NEW ORLEANS, LA. Biochemistry of lung proteoglycans (rabbits, cattle).

R01HL-21622-02 (SRC) BLACKWELL, JOHN, CASE WESTERN RESERVE UNIV, DEPT OF MACROMOLECULAR SCIENCE, CLEVELAND, OHIO. Structure and interactions of lung proteoglycans (cattle).

R01HL-21626-01 (SRC) PEDRINI, VITTORIO A, UNIVERSITY OF IOWA, DEPARTMENT OF ORTHOPAEDIC SURG, IOWA CITY, IOWA. Proteoglycans of animal lung parenchyma (cattle, pigs, rabbits).

R01HL-21628-02 (PC) FAIRCLOUGH, GORDON F, JR, CORNELL UNIVERSITY, 1300 YORK AVENUE, NEW YORK, N Y. Biosynthesis of lung surfactant lipid (rabbit).

R01HL-21632-02 (SGYA) BRUESCHKE, ERICH E, RUSH-PRESBY-ST LUKE'S MED CTR, WEST CONGRESS PARKWAY, CHICAGO, IL. Development of a transcutaneous power transfer system (cattle).

R01HL-21641-02 (SRC) MASHBURN, THOMPSON A, JR, UNIVERSITY OF TENNESSEE, 894 UNION AVENUE, MEMPHIS, TENN. Structural studies of lung proteoglycans (pigs, cattle, rabbits).

R01HL-21644-01 (PBC) MOSHER, DEANE F, JR, UNIVERSITY OF WISCONSIN, 1300 UNIVERSITY AVENUE, MADISON, WIS. Fibronectin and related glycoproteins (human, rodents).

R01HL-21646-02 (SRC) O'BRIEN, JOHN F, UNIVERSITY OF WISCONSIN, 2605 MARSH LANE, MADISON, WI Biosynthesis of fractionated proteoglycans of lung (rabbits)

R01HL-21649-01 (SRC) RADHAKRISHNAMURTHY, BHANDARU, LOUISIANA STATE UNIVERSITY, 1542 TULANE AVENUE, NEW ORLEANS, LA. Biochemistry of lung proteoglycans (mammals).

R01HL-21654-01 (CVB) CORR, PETER B, WASHINGTON UNIVERSITY, 660 SOUTH EUCLID, ST LOUIS, MO Autonomic determinants of arrhythmia due to ischemia (cats).

R01HL-21657-01 (CVA) DOWNEY, H FRED, METHODIST HOSPITAL, POST OFFICE BOX 5999, DALLAS, TEX. Regional non-ischemic myocardial hypoxia (dogs).

R23HL-21663-01 (PBC) PAWLOWSKI, PHILIP J, WESLEYAN UNIVERSITY, DEPARTMENT OF BIOLOGY, MIDDLETOWN, CONN. Regulation of collagen biosynthesis (chick, embryo).

R01HL-21665-01 (PBC) MAYNE, RICHARD, UNIVERSITY OF ALABAMA, UNIVERSITY STATION, BIRMINGHAM, ALA Collagen polymorphism and arterial structure (monkeys, guinea pigs)

R01HL-21670-01 (PHRA) RAHWAN, RALF G, OHIO STATE UNIVERSITY, 500 W 12TH AVENUE, COLUMBUS, OHIO Antiarrhythmic studies on 2 substituted aminoindenes (dogs)

R01HL-21672-01 (PHRA) HONDEGHEM, LUC M, UNIVERSITY OF CALIFORNIA, DEPARTMENT OF PHARMACOLOGY, SAN FRANCISCO, CA Antiarrhythmic drug action on VMAZ of cardiac cells.

R01HL-21673-01 (CVB) SIMON, GEZA, VETERANS ADMINISTRATION HOSP, 54TH STREET AND 48TH AVENUE S , MINNEAPOLIS, MINN Pathophysiology of venous changes in hypertension (rats, rabbits, human, dogs)

R01HL-21674-01 (SGYB) SCHUDER, JOHN C, UNIVERSITY OF MISSOURI, DEPARTMENT OF SURGERY, COLUMBIA, MO. Development of automatic implanted defibrillator (dogs, cattle).

R01HL-21676-02 (SRC) GOLDWASSER, EUGENE, CUMMINGS LIFE SCIENCE CENTER, 920 EAST 58TH STREET, CHICAGO, ILL. Purification and properties of erythropoietin (human).

R01HL-21683-02 (SRC) LEE-HUANG, SYLVIA, NEW YORK UNIVERSITY MED CTR, 550 FIRST AVENUE, NEW YORK, N Y. Purification of erythropoietin (human).

R01HL-21684-02 (SRC) ALONSO, DANIEL R, CORNELL UNIVERSITY, 1300 YORK AVENUE, NEW YORK, N Y Radionuclide infarct sizing and therapy evaluation.

R01HL-21684-02 0001 (SRC) JACOBSTEIN, JEROME G. Radionuclide infarct sizing and therapy evaluation--Evaluating preservation of ischemic myocardium by radioisotope methods (dog).

R01HL-21684-02 0002 (SRC) ALONSO, DANIEL R. Radionuclide infarct sizing and therapy evaluation--Evaluating myocardial imaging agents in global and regional ischemia (rabbits).

R01HL-21684-02 0003 (SRC) ALONSO, DANIEL R. Radionuclide infarct sizing and therapy evaluation--Core pathology laboratory (dogs, human).

R01HL-21684-02 0004 (SRC) CAHILL, PATRICK T. Radionuclide infarct sizing and therapy evaluation--Image analysis--Kinetics of infarction, ventricular function (human, animal).

R01HL-21684-02 0005 (SRC) SCHEIDT, STEPHEN. Radionuclide infarct sizing and therapy evaluation--Clinical evaluation of radioisotope imaging methods for quantifying infarct size.

R01HL-21686-02 (SRC) DIXON, JONATHAN S, UNIVERSITY OF CALIFORNIA, LAWRENCE BERKELEY LABORATORY, BERKELEY, CALIF. Purification of erythropoietin (human).

R01HL-21690-02 (SRC) ZARET, BARRY L, YALE UNIVERSITY, 333 CEDAR STREET, 87 LMP, NEW HAVEN, CONN. Sequential multinuclide study of acute infarction (human, dogs).

R01HL-21692-02 (SRC) SPIVAK, JERRY L, JOHNS HOPKINS UNIVERSITY, 720 RUTLAND AVENUE, BALTIMORE, MD. Purification of erythropoietin (human).

R01HL-21697-01 (SRC) BUDINGER, THOMAS F, UNIVERSITY OF CALIFORNIA, LAWRENCE BERKELEY LABORATORY, BERKELEY, CALIF. Myocardium infarct sizing by 82Rb emission tomography (dogs, human).

R01HL-21701-02 (SRC) FISHER, JAMES W, TULANE UNIVERSITY, 1430 TULANE AVENUE, NEW ORLEANS, LA. Purification of erythropoietin (human).

R01HL-21706-02 (SRC) KAPLAN, JEROME I, INDIANA UNIVERSITY, 1201 EAST 38TH STREET, INDIANAPOLIS, IND. Nuclear magnetic resonance and myocardial ischemia (rats).

R01HL-21707-01 (SRC) KEYES, JOHN W, JR, UNIVERSITY HOSPITAL, 1405 E ANN STREET, ANN ARBOR, MICH. Quantification of infarct size by emission tomography (human, dogs).

R01HL-21710-01 (SRC) BURGESS, MARY J, UNIVERSITY OF UTAH, INTERNAL MEDICINE DEPARTMENT, SALT LAKE CITY, UTAH. Electrocardiographic methods of quantifying infarct size (human, dogs).

R01HL-21719-01 (SRC) ADAMS, DOUGLASS F, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Computed cardiac tomography in infarct sizing (dogs, human).

R23HL-21730-01 (HEM) MONTGOMERY, ROBERT R, JR, UNIVERSITY OF COLORADO, 4200 EAST NINTH AVENUE, DENVER, COLO. vWagII--A new vWD deficient antigen (human).

R01HL-21735-01 (CVA) MYERBURG, ROBERT J, UNIVERSITY OF MIAMI, POB 520875, BISCAYNE ANNEX, MIAMI, FLA. Electrophysiology after healed myocardial infarction (cats).

R01HL-21742-01 (PHRA) COURTNEY, KENNETH R, STANFORD RESEARCH INSTITUTE, 333 RAVENSWOOD AVENUE, MENLO PARK, CALIF. Frequency-dependent drug actions in cardiac muscle (rabbits).

R01HL-21750-02 (SRC) REICHENBACH, DENNIS D, UNIVERSITY OF WASHINGTON, DEPARTMENT OF PATHOLOGY, SEATTLE, WASH. Electrocardiographic quantification of infarct size (dogs, human).

R01HL-21751-02 (SRC) POHOST, GERALD M, MASSACHUSETTS GENERAL HOSPITAL, CARDIAC UNIT 32 FRUIT STREET, BOSTON, MASS. Thallium and antimyosin in ischemia and infarction.

R01HL-21751-02 0001 (SRC) INGWALL, JOANNE S. Thallium and antimyosin in ischemia and infarction--In vitro models of ischemia and infarction (rats, mice).

R01HL-21751-02 0002 (SRC) BELLER, GEORGE A. Thallium and antimyosin in ischemia and infarction--Canine models of ischemia and infarction.

R01HL-21751-02 0003 (SRC) POHOST, GERALD M. Thallium and antimyosin in ischemia and infarction--Human studies--Ischemia and infarction.

R01HL-21756-11 (PTHA) GOLDFISCHER, SIDNEY L, ALBERT EINSTEIN COLLEGE OF MED, 1300 MORRIS PARK AVENUE, BRONX, N Y. Vascular disease--Cytochemistry and ultrastructure (human, rats, mice, hamsters) .

R01HL-21757-01 (BBCB) ENGLANDER, S WALTER, UNIVERSITY OF PENNSYLVANIA, BIOCHEMISTRY & BIOPHYSICS DEPT, PHILADELPHIA, PA Elastin structure--DNA breathing--Hemoglobin S gelation.

R01HL-21763-09 (PBC) CONRAD, H EDWARD, UNIVERSITY OF ILLINOIS, BIOCHEMISTRY DEPARTMENT, URBANA, ILL. Heparin and heparan sulfate--Structure and activity (beef, hog).

R01HL-21764-01 (MCHB) PRIVETT, ORVILLE S, UNIVERSITY OF MINNESOTA, 801 16TH AVENUE N E, AUSTIN, TEX. Ultramicroanalysis of prostaglandins and related compounds (rats).

R01HL-21769-01 (MCHA) LEE, WILLIAM W, STANFORD RESEARCH INSTITUTE, 333 RAVENSWOOD AVENUE, MENLO, PARK CALIF. Blood compatible benzamidine containing polymers.

R01HL-21779-01 (CVB) GOMEZ-SANCHEZ, CELSO E, DEPT OF INTERNAL MEDICINE, 5323 HARRY HINES BLVD, DALLAS, TEX. Steroids in adrenal regeneration hypertension (rats).

R23HL-217B3-01 (CVA) RAU, ERIC E, UNIVERSITY OF CALIFORNIA, CTR/HEALTH SCIENCES, LOS ANGELES, CALIF. Ionic control of contractility in anoxic myocardium (rabbits, rats).

R01HL-217BS-01 (COM) CLAYTON, PAUL O, LOS HOSPITAL, 325 8TH AVENUE, SALT LAKE CITY, UTAH. Left ventricular wall motion analysis.

R01HL-21786-01 (SGY8) COHN, LAWRENCE H, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Long-term effects of myocardial protection (dogs, rats).

R01HL-21791-01 (BBCA) INGHAM, KENNETH C, AMERICAN NATIDNAL RED CROSS, 9312 OLD GEORGETOWN ROAD, BETHESOA, MO. Precipitation of proteins with poly (ethylene glycol) (human).

R01HL-21793-02 (SRC) PARMLEY, WILLIAM W, UNIVERSITY OF CALIFORNIA, 1186-MOFFITT HOSPITAL, SAN FRANCISCO, CALIF. Functional infarct size by gated radioangiography (human, dogs).

R01HL-21796-01 (SGY8) LOGERFO, FRANK W, UNIVERSITY HOSPITAL, 75 EAST NEWTON STREET, D517, BOSTON, MASS. Applied pulsatile hemodynamics in vascular surgery (dogs).

R01HL-21799-01 (PHRA) SIMPSON, JOHN 8, UNIVERSITY OF WASHINGTON, PSYCHOLOGY DEPARTMENT, SEATTLE, WASH. Circumventricular sites of pressor action of angiotensin II (rats).

R01HL-21B00-01 (PHRA) SIMPSON, JOHN B, UNIVERSITY OF WASHINGTON, OEPT DF PSYCHOLOGY NI-25, SEATTLE, WASH. Angiotensin effects on water intake and excretion.

R23HL-21805-01 (SGYB) ROSEN, JONATHAN J, UNIVERSITY OF WASHINGTON, DEPT OF CHEM ENGR, BF-10, SEATTLE, WASH. Tissue cell interactions with vascular prostheses (human, rats, mice).

R01HL-21B12-02 (CVA) KATZ, ARNOLD M, UNIVERSITY OF CONNECTICUT, FARMINGTON, CONN. Actions of drugs and ions on cardiac membranes (rabbits, guinea pigs).

R01HL-21817-01 (PHRA) ZIEGLER, MICHAEL G, UNIVERSITY OF TEXAS, PHARM & TOX DEPARTMENT, GALVESTON, TEX. Catecholamines, blood pressure and circulation.

R01HL-21B20-01 (CV8) MASON, OEAN T, UNIVERSITY OF CALIFORNIA, SCHOOL OF MEDICINE, DAVIS, CALIF. Regulatory role of myosin in cardiac hypertrophy (dogs).

R01HL-21829-01 (PTHA) OGRA, PEARAY L, CHILDREN'S HOSPITAL, 219 BRYANT STREET, BUFFALO, N Y. Etiology of obstructive airway disease in children (also monkeys).

R01HL-21831-0S (PC) SALSER, WINSTON A, UNIVERSITY OF CALIFORNIA, 405 HILGARD AVENUE, LOS ANGELES, CALIF. Oetermining sequences from hemoglobin messenger RNA (mice, chickens, rabbits).

R23HL-21842-01 (CVA) WHITFIELD, CAROL F, MILTON S HERSHEY MED CENTER, 5D0 UNIVERSITY DRIVE, HERSHEY, PA. Control of sugar entry in normal and diabetic heart (rats).

R01HL-21843-01 (CV8) OEGIROLAMI, UMBERTO, UNIVERSITY OF MASSACHUSETTS, 55 LAKE AVENUE NORTH, WORCESTER, MASS. Ischemia, diabetes and the microcirculation (rats, cats, hamsters).

R01HL-21B4S-01 (CTY) YU, JOHN C, SCRIPPS CLINIC & RES FON, 10666 NORTH TORREY PINES ROAO , LA JOLLA, CALIF. Human red cell membrane--Structure and function.

R01HL-21846-01 (SSS) REVESZ, GEORGE, TEMPLE UNIVERSITY, 3400 NORTH BROAO STREET, PHILAOELPHIA, PA. Cardiac failure detection by radiography and optics (monkeys).

R01HL-21849-02 (GMB) AL-AWQATI, QAIS, COLUMBIA UNIVERSITY, OEPARTMENT OF MEOICINE, NEW YORK, N Y. Control of sodium transport and cellular respiration (toad bladder).

R01HL-21B50-01 (CVB) LIMAS, CONSTANTINOS J, UNIVERSITY OF MINNESOTA, BOX 83 - MAYO MEMORIAL BLDG, MINNEAPOLIS, MINN. Calcium transport in the hypertrophied myocardium (rats, animals).

R01HL-218S1-01 (CVB) KONTOS, HERMES A, MEOICAL COLLEGE OF VIRGINIA, OEPARTMENT OF MEOICINE, RICHMONO, VA. Cerebral microcirculation in experimental hypertension (cats, rabbits).

R23HL-218S3-01 (CVA) YOUNG, STEPHEN L, OUKE UNIVERSITY, DURHAM, N C. Lung metabolism and alveolo-capillary permeability (rats).

R23HL-218S5-01 (COM) FELDMAN, HENRY A, HARVARO UNIVERSITY, 665 HUNTINGTON AVENUE, BOSTON, MASS. Mathematical models of branching in the human lung.

R01HL-21859-01 (SGY8) OEWEY, C FORBES, JR, MASSACHUSETTS INST OF TECH, ROOM 3-25D, CAMBRIOGE, MASS. Unsteady flow in arterial bifurcations (human).

R01HL-21860-1B (PHRA) FURCHGOTT, ROBERT F, S U N Y - OOWNSTATE MEO CENTER, 45D CLARKSON AVENUE, BROOKLYN, N Y. Factors influencing responses to adrenergic drugs (guinea pigs, rats, cats).

R01HL-21B72-01 (CVA) BACHE, ROBERT J, UNIVERSITYO F MINNESOTA, BOX 338, MAYO BUILOING, MINNEAPOLIS, MINN. Myocardial perfusion in the hypertrophied heart (dogs).

R01HL-21B74-01 (ALY) JAKSCHIK, SISTER 8ARBARA A, WASHINGTON UNIVERSITY, 66D SOUTH EUCLID, ST LOUIS, MO. SRS-A--Its biosynthesis and action.

R01HL-21877-01 (CV8) BARRETT, JACK O, VETERANS AOMINISTRATION HOSP, 16111 PLUMMER STREET, SEPULVEOA, CALIF. Iso-renins in the hypertensive rat.

R01HL-21B93-01 (CVB) JULIUS, STEVO, UNIVERSITY OF MICHIGAN, R 6669 KRESGE MEO RES BLOG, ANN ARBOR, MICH. Blood volume distribution in hypertension (human).

R23HL-21B94-01 (PC) ROHRBACH, MICHAEL S, MAYO FOUNOATION, 2DO FIRST STREET SOUTHWEST, ROCHESTER, MN. Pulmonary angiotensin converting enzyme (cattle).

R23HL-21901-01 (CVB) WIEGMAN, DAVIO L, UNIVERSITY OF MISSOURI, OALTON RESEARCCH CENTER, COLUMBIA, MO. Hypertension, microvascular control and exercise (rats)

R1BHL-21906-01 (SRC) FARQUHAR, JOHN W, STANFORO UNIVERSITY, OEPARTMENT OF MEOICINE, STANFORO, CALIF Stanford five city multifactor risk reduction study

R01HL-21912-01 (PC) SHIH, JASON C H, NORTH CAROLINA STATE UNIV, P O BOX 53D7, SCOTT HALL, RALEIGH, N C. Biosynthesis of lipoic acid and atherosclerosis (birds, chick embryos).

R23HL-21914-01 (CVB) JEW, JEAN Y, UNIVERSITY OF IOWA, OEPARTMENT ANATOMY, IOWA CITY, IOWA Studies of vasomotor control (rats).

R23HL-21917-01 (CVB) GUTHRIE, GOROON P, JR, UNIVERSITY OF KENTUCKY, OEPARTMENT OF MEOICINE, LEXINGTON, KY. Adrenal steroids in adolescent and adult hypertension.

R23HL-21918-01 (PTHA) ROSKA, A KAY, MARQUETTE UNIVERSITY, 530 NORTH 15TH STREET, MILWAUKEE, WIS. Hypersensitivity pneumonitis in guinea pigs.

R01HL-21922-01 (PHY) KASS, ROBERT S, UNIVERSITY OF ROCHESTER, OEPT OF PHYSIOLOGY, BOX 642, ROCHESTER, N Y. Transient currents induced by strophanthidin in the heart.

R23HL-21943-01 (PTHA) MAZZONE, ROBERT W, UNIV OF CALIFORNIA, SAN DIEGO, ROOM 504D BASIC SCIENCES BLDG , LA JOLLA, CALIF. Capillary morphology in pulmonary edema (dogs).

R01HL-21948-01 (PTHA) MORRIS, ALAN H, LATTER, DAY SAINTS HOSPITAL, 325 8TH AVENUE, SALT LAKE CITY, UTAH. Capillary, tissue volume and lymph flow in lung edema (sheep, cattle).

R23HL-21950-01 (PTHA) WALL, ROBERT T, HARBORVIEW MEDICAL CENTER, 325 NINTH AVENUE, SEATTLE, WASH. Endothelial cell mechanisms in vascular disease (human).

R23HL-21954-01 (AFY) ORENSTEIN, OAVID M, RAINVOW BAVIES & CHLDRN'S HOSP, 2101 ADELBERT ROAD, CLEVELAND, OHIO. Exercise conditioning in patients with cystic fibrosis.

R01HL-21969-01 (SGYB) SWAN, HENRY, COLORADO STATE UNIVERSITY, DEPT OF CLINICAL SCIENCES, FORT COLLINS, COLO. Prevention of myocardial hypoxia during by-pass (rats, mice, squirrels).

R01HL-21970-01 (CTY) ETLINGER, JOSEPH D, STATE UNIVERSITY OF NEW YORK, 450 CLARKSON AVENUE, BROOKLYN, N Y. Myofibrillar assembly and breakdown in cardiac muscle (rats).

R01HL-21971-01 (EOC) FRIEOMAN, GARY D, MED METHOOS RES OEPARTMENT, 37DD BROAOWAY, OAKLAND, CALIF. Atherosclerotic disease and risk factors in twins (human).

R23HL-21973-01 (CVA) ATKINS, FLOYD L, UNIVERSITY OF KANSAS, 39D0 RAINBOW BLVO, KANSAS CITY, KANS. Catecholamine metabolism and the heart (human, guinea pigs).

R01HL-21975-01 (HEM) ROBERTS, HAROLO R, UNIVERSITY OF NORTH CAROLINA, BUILOING 229-H, CHAPEL HILL, N C. Studies on normal and abnormal factor IX (human, dogs, cows).

R01HL-2198S-01 (RAD) GRAHAM, THOMAS P, JR, VANDERBILT UNIVERSITY, NASHVILLE, TENN. Videoroentgenography in congenital heart disease.

R01HL-219BB-01 (HEM) LOWENHAUPT, ROSALIN W, UNIVERSITY OF CONCINNATI, DEPARTMENT OF PHYSIOLOGY, CINCINNATI, OHIO. Biochemistry of human platelet chemotaxis.

R23HL-21990-01 (AFY) LEWIS, STEVEN M, UNIV OF SOUTHERN CALIFORNIA, BIOMEDICAL ENGINEERING, LOS ANGELES, CALIF. Accuracy of the ventilatory response to exercise (dogs).

R01HL-21993-01 (CV8) SONNENBLICK, EOMUNO H, ALBERT EINSTEIN COLL OF MED, 1300 MORRIS PARK AVENUE, BRONX, N Y. Hypertensive hypertrophy--Effects of cardiac mechanics (rats).

R01HL-21994-01 (PTHA) AUSPRUNK, DIANNA H, CHILDREN'S HOSPITAL MED CTR, 3DD LONGWOOO AVENUE, BOSTON, MASS. Structure and development of regenerating capillaries (rabbits, chick embryo).

R01HL-2199S-01 (PHRA) RUOOLPH, STEPHEN A, CASE WESTERN RESERVE UNIV, OEPT OF PHARMACOLOGY, CLEVELANO, OHIO. Protein phosphorylation and adrenergic effects.

R01HL-21996-01 (PHRA) LAGE, GARY L, UNIVERSITY OF WISCONSIN, 425 N CHARTER, MAOISON, WIS. Alteration of digitalis and aldosterone disposition (rats, rabbits, mice, dogs).

R23HL-21997-01 (PTHA) PENNINGTON, JAMES E, PETER BENT BRIGHAM HOSPITAL, OEPARTMENT OF MEOICINE, BOSTON, MASS. Pulmonary immunopathology in the compromised host (guinea pigs).

R23HL-22004-01 (CV8) KRONENBERG, MARVIN W, VANDERBILT UNIVERSITY HOSPITAL, OIVISION OF CAROIOLOGY, NASHVILLE, TENN. Imaging and ECG studies in acute and chronic IHO (human).

R01HL-2200S-01 (SGY8) KOROENAT, R KARL, WRIGHT STATE UNIVERSITY, 3525 SOUTHERN BOULEVARO, OAYTON, OHIO. Intermittent retroperfusion of ischemic myocardium (dogs).

R01HL-22008-01 (CV8) KIR8Y, AL8ERT C, CASE WESTERN RESERVE UNIV, OEPARTMENT OF PHYSIOLOGY, CLEVELANO, OHIO. Left ventrivular calcium content and contractility (rats).

R23HL-22011-01 (CVA) LESLIE, CRYSTAL A, BOSTON UNIVERSITY, 80 EAST CONCORO STREET, BOSTON, MASS. Adrenergic receptor cyclase system in sensitized lung (rats, guinea pigs).

R01HL-22021-01 (DBR) RENNE, CHARLES M, NATIONAL ASTHMA CENTER, 1999 JULIAN, OENVER, COLO. Asthma in families-- Behavior analysis of family interaction pattern.

R01HL-22022-01 (CVA) ROCHESTER, OUDLEY F, UNIVERSITY OF VIRGINIA, BOX 225, CHARLOTTESVILLE, VA. Respiratory muscle dysfunction in respiratory failure (human).

R01HL-22026-01 (PHRA) MORRIS, HELEN G, NATIONAL JEWISH HOSP & RES CTR, 3800 EAST COLFAX AVENUE, OENVER, COLO. Endogenous prostaglandins in asthma.

R01HL-22029-02 (BM) JAKAB, GEORGE J, JOHNS HOPKINS UNIVERSITY, 615 NORTH WOLFE STREET, BALTIMORE, MO. Bronchopulmonary resistance to bacterial infection (mice).

R01HL-22032-01 (CVA) GOLDBERG, ALAN D, CLEVELANO METRO GENERAL HOSP, 3395 SCRANTON ROAO, CLEVELANO, OHIO. Cardiovascular events in hypertensives (human).

R01HL-22035-01 (HEM) TENG, LIN-NAR L, UNIVERSITY OF WASHINGTON, OEPT OF LAB MEOICINE, SB-1D, SEATTLE, WASH. Molecular modification of heparin by chemical means (sheep).

R01HL-22039-02 (PHRA) SCHWARTZ, ARNOLD, UNIVERSITY OF CINCINNATI, PHARMACOLOGY & THERAPEUTICS, CINCINNATI, OHIO. Ion transport in cardiac muscle (dogs, rodents, cattle).

R01HL-22040-01 (CVB) 8OUCEK, ROBERT J, JR, UNIVERSITY OF MIAMI, OEPARTMENT OF MEDICINE, MIAMI, FLA. Regulation of lysyl-cross-linking in vascular tissue (rats, turkeys).

R01HL-220S0-01 (8BCB) CAPALDI, RODERICK A, UNIVERSITY OF OREGON, INSTITUTE/MOLECULAR BIOLOGY, EUGENE, OREG. Organization of succinic oxidase in heart.

R01HL-220S1-01 (GMB) STREETEN, OAVIO H, S U N Y - UPSTATE MEOICAL CTR, 75D EAST AOAMS STREET, SYRACUSE, N Y. Role of angiotensin II in vasopressin release (human).

R01HL-220S2-01 (BBCA) 8ITTMAN, ROBERT, QUEENS COLLEGE - C U N Y, 65-30 KISSENA BLVO, FLUSHING, N Y. Organization of free cholesterol in serum lipoproteins (human, dogs).

R01HL-220S3-02 (SRC) STEIN8ERG, OANIEL, UNIV OF CALIFORNIA, SAN OIEGO, OEPT OF MEOICINE, M0130, LA JOLLA, CALIF. The disordered lipid metabolism of diabetes mellitus (chickens, mammals, human).

R01HL-22064-02 (SRC) INGEBRETSEN, WILLIAM R, JR, UNIVERSITY OF SOUTH CAROLINA, OEPT PHYSIOLOGY & PHARMACOLOGY, COLUMBIA, S C. Glycogen metabolism in anoxic diabetic myocardium (rats).

R01HL-22065-01 (OBR) DAHLEM, NANCY W, NATIONAL JEWISH HOSP & RES CTR, 3800 EAST COLFAX AVENUE, DENVER, COLO Intractability, medication, and coping styles in asthma (human)

R13HL-22068-01 (NSS) ROBIN, EUGENE D, STANFORD UNIVERSITY, DEPARTMENT OF MEDICINE C 352, STANFORD, CALIF Conference on 'The Internal Environment' (California)

R01HL-22069-02 (SGYA) MAXWELL, MORTON H, CEDARS-SINAI MEDICAL CENTER, 8700 BEVERLY BOULEVARD, LOS ANGELES, CALIF Experimental renal arterial hypertension (dogs).

R23HL-22075-01 (PC) WONG, PATRICK Y, UNIVERSITY OF TENNESSEE, 800 MADISON AVENUE, MEMPHIS, TENN Metabolism of arachidonic acid in blood vessels (chickens, mammals).

R01HL-22077-01 (CVA) ROTH, JEROME A, S U N Y AT BUFFALO, 127 FARBER HALL, BUFFALO, N Y Vasoactive amine disposition in cultured endothelium (rabbits).

R01HL-22079-01 (CVA) STUMPF, WALTER E, UNIV OF NORTH CAROLINA, ANATOMY DEPARTMENT, CHAPEL HILL, N C Heart receptor sites for digitalis and steroid hormones (animals).

R01HL-22080-01 (CVA) HOLLIS, DONALD P, JOHN HOPKINS SCH OF MEDICINE, 725 N WOLFE STREET, BALTIMORE, MD. Phosphorus NMR studies on cardiac tissue (rats, rabbits)

R01HL-22081-20 (BBCB) BENSUSAN, HOWARD B, CASE WESTERN RESERVE UNIV, 2119 ABINGTON ROAD, CLEVELAND, OHIO 44106. The mechanism of collagen formation (human, cattle).

R01HL-22087-02 (SSS) RYAN, JAMES W, UNIVERSITY OF MIAMI, P O BOX 520875, BISCAYNE ANNEX, MIAMI, FLA Humoral mediators of pulmonary inflammation (guinea pigs).

R01HL-22088-02 (SRC) GOLDSTEIN, GARY W, UNIVERSITY OF CALIFORNIA, NEUROLOGY DEPARTMENT, SAN FRANCISCO, CALIF. Metabolic basis for diabetic microangiopathy (cattle).

R01HL-22098-01 (SGYB) SNIDERMAN, ALLAN D, ROYAL VICTORIA HOSPITAL, 687 PINE AVENUE WEST, QUEBEC H3A 1A1, CANADA. Is postoperative infarction due to reperfusion injury? (human, dogs).

R01HL-22101-02 (SRC) BAGBY, GREGORY JOHN, LOUISIANA STATE UNIVERSITY, 1542 TULANE AVENUE, NEW ORLEANS, LA. Hormone-substrate interaction in diabetic myocyte (dogs, rats).

R01HL-22106-02 (SRC) TORNHEIM, PATRICIA A, UNIVERSITY OF CINCINNATI, ANATOMY DEPARTMENT, CINCINNATI, OHIO. Diabetic cerebral vascular structure and function.

R01HL-22110-02 (SGYB) MOORE, WESLEY S, UNIVERSITY OF ARIZONA, SURGERY DEPARTMENT, TUCSON, ARIZ. Healing complications in vascular grafting (dogs).

R01HL-22113-02 (SRC) WAGNER, F WILLIAM, JR, RANCHO LOS AMIGOS HOSPITAL, 7413 COLONDRINAS STREET, DOWNEY, CALIF. Micro/macrovasculature in healing of foot lesions (human).

R01HL-22115-02 (SRC) WELLS, IBERT C, CREIGHTON UNIVERSITY, 2500 CALIFORNIA STREET, OMAHA, NEBR. Lipid-mobilization and diabetic atherosclerosis (human).

R01HL-22118-02 (SRC) ZWEIFACH, BENJAMIN W, UNIV OF CALIFORNIA, SAN DIEGO, AMES-BIOENGINEERING, M-005, LA JOLLA, CALIF. Microcirculation in patients with diabetes mellitus.

R01HL-22119-01 (HEM) DEUEL, THOMAS F, JEWISH HOSPITAL, 216 KINGSHIGHWAY, ST LOUIS, MO. Biochemistry of platelet function in thrombosis and cell growth (rabbits).

R01HL-22121-02 (SRC) SABESIN, SEYMOUR M, UNIVERSITY OF TENNESSEE, 951 COURT AVENUE, ROOM 335M, MEMPHIS, TENN. Dyslipoproteinemia in diabetes and vascular disease (human)

R01HL-22123-02 (SRC) RANO, PETER W, MAINE MEDICAL CENTER, 22 BRAMHALL STREET, PORTLAND, MAINE The role of the red cell in diabetic atherosclerosis (human)

R01HL-22135-01 (SRC) KATZ, ARNOLD M, UNIVERSITY OF CONNECTICUT, FARMINGTON CONN Control of calcium fluxes across cardiac membranes (dogs rabbits guinea pigs)

R01HL-22136-02 (PHRA) JOHNSON, CARL L, UNIVERSITY OF CINCINNATI, 231 BETHESDA AVENUE CINCINNATI, OHIO Histamine and cardiac adenyl cyclase

R01HL-22137-02 (CVA) BLOOM, SHERMAN, GEORGE WASHINGTON UNIVERSITY, 2300 I STREET N W WASHINGTON D C Structure function pathology of isolated heart cells (mice, rats)

R01HL-22149-01 (PTHA) HART, MICHAEL N, UNIVERSITY OF IOWA, DEPT OF PATHOLOGY IOWA CITY IOWA Morphologic examination of brain parenchymal vessels (cats)

R01HL-22152-02 (SGYA) ANDERSON, ROBERT W, UNIVERSITY OF MINNESOTA, BOX 118 MAYO MEMORIAL BLDG MINNEAPOLIS, MINN Ventricular dysfunction and cardiac surgery (dogs)

R01HL-22154-01 (AFY) STONE, HUBERT L, UNIVERSITY OF OKLAHOMA, POST OFFICE BOX 26901, OKLAHOMA CITY, OKLA Cardiac adaptation to physical training (dog)

R13HL-22159-01 (NSS) MASSARO, DONALD J, UNIVERSITY OF MIAMI, P O BOX 520875, BISCAYNE ANNEX, MIAMI, FLA Conference on non ventilatory functions of the lungs (New Hampshire).

P01HL-22163-01 (HLBB) HOFFMAN, ALLAN S, UNIVERSITY OF WASHINGTON, CTR FOR BIOENGINEERING, FL-20 , SEATTLE, WASH. Surface thrombogenesis--Mechanisms and prevention.

P01HL-22163-01 0001 (HLBB) HORBETT, THOMAS A. Surface thrombogenesis--Mechanisms and prevention--Initial blood protein and platelet interactions with biomaterials (baboons).

P01HL-22163-01 0002 (HLBB) ISHIMARU, AKIRA. Surface thrombogenesis--Mechanisms and prevention--Laser-scattering detection of microemboli in blood flow (baboons).

P01HL-22163-01 0003 (HLBB) HARKER, LAURENCE. Surface thrombogenesis--Mechanisms and prevention--In vivo mechanisms of biomaterial thrombogenesis and its prevention (baboons).

P01HL-22163-01 9001 (HLBB) RABNER, BUDDY D. Surface thrombogenesis--Mechanisms and prevention--Polymers for studing blood-material interactions core.

R01HL-22170-01 (PHRA) KIRPEKAR, S M, S U N Y - DOWNSTATE MED CTR, 450 CLARKSON AVENUE, BROOKLYN, N Y. Factors influencing transmission at adrenergic synpases.

R01HL-22172-01 (CVB) LEVINSKY, NORMAN G, UNIVERSITY HOSPITAL, 75 EAST NEWTON STREET, BOSTON, MASS. Hypotension, renal ischemia and effect of mannitol (dogs, rats).

R01HL-22174-01 (MBY) TZAGOLOFF, ALEXANDER A, COLUMBIA UNIVERSITY, BIOLOGICAL SCIENCES DEPARTMENT, NEW YORK, N Y. Assembly of membranes in heart and yeast mitochondria.

R01HL-22177-02 (CVA) GREENBERG, STANLEY, UNIV OF SOUTH ALABAMA, DEPT OF PHARMACOLOGY, MOBILE, ALA Mechanisms of control of pulmonary smooth muscle (dogs)

R01HL-22178-01 (RAD) JACKSON, ANDREW C, CHILDREN'S HOSPITAL 300 LONGWOOD AVENUE, BOSTON, MASS Lung airway properties by acoustic impulse reflection

R01HL-22194-02 (BBCB) MALIK, MAZHAR N, INST FOR BASIC RES/MNTL RETARD, 1050 FOREST HILL ROAD, STATEN ISLAND, N Y Allosteric function of platelet contractile proteins (human)

R01HL-22201-01 (TOX) FUHRMAN, FREDERICK A, HOPKINS MARINE STATION, STANFORD UNIVERSITY, PACIFIC GROVE, CALIF Pharmacology and chemistry of nudibranch toxins (guinea pigs, rats, mice)

R01HL-22208-02 (BBCB) FOSTER, JUDITH A, UNIVERSITY OF GEORGIA, DEPARTMENT OF BIOCHEMISTRY, ATHENS, GA Elastin structure, fibrogenesis and disease (chickens, rabbits)

R01HL-22212-01 (SRC) STROUD, FLORENCE M, 2134 GROVE, BERKELEY, CALIF Alameda county high blood pressure control program

R01HL-22215-01 (AFY) HOLLOSZY, JOHN O, WASHINGTON UNIVERSITY, 4566 SCOTT AVENUE, ST LOUIS, MO Effects of exercise-training in ischemic heart disease (human).

R01HL-22216-02 (CVB) GREENBERG, STANLEY, UNIVERSITY OF SOUTH ALABAMA, COLLEGE OF MEDICINE, MOBILE, ALA. Vascular mechanisms in renal hypertension (dogs).

R01HL-22219-01 (MCHA) PORTER, NED A, DUKE UNIVERSITY, DEPARTMENT OF CHEMISTRY, DURHAM, N C. Prostacyclin and peroxides in blood and membrane disease.

R01HL-22223-01 (CVA) MELBIN, JULIUS, UNIVERSITY OF PENNSYLVANIA, 3800 SPRUCE STREET, PHILADELPHIA, PA. The cardio-pulmonary junction (dogs, models).

R01HL-22225-01 (CVB) TERRAGNO, NORBERTO A, UNIVERSITY OF TENNESSEE, 800 MADISON AVENUE, MEMPHIS, TENN. Hormonal regulation of blood pressure and blood flow (human, animals).

R01HL-22226-01 (HED) PAPKA, RAYMOND E, UNIVERSITY OF KENTUCKY, 800 ROSE STREET, LEXINGTON, KY. Autonomic nervous elements in the developing heart (rabbits).

R01HL-22227-01 (HEM) STENT, GUNTHER S, UNIVERSITY OF CALIFORNIA, VIRUS LABORATORY, BERKELEY, CALIF. A new source of hyaluronidase and anticoagulants (leeches).

R01HL-22231-02 (PHY) SOLARO, R JOHN, UNIVERSITY OF CINCINNATI, 231 BETHESDA AVENUE, CINCINNATI, OHIO. Modulation of calcium control of cardiac myofibrils (rats).

R01HL-22233-01 (SGYB) APFEL, ROBERT E, YALE UNIVERSITY, ENGINEERING & APPLIED SCI DEPT, NEW HAVEN, CONN. Characterization of bio-materials by elastic property.

R01HL-22235-01 (CVA) POLLACK, GERALD H, UNIVERSITY OF WASHINGTON, DEPT OF ANESTHESIOLOGY RN-10, SEATTLE, WASH. Mechanism of cardiac pacemaking (rabbits).

R01HL-22239-01 (PHY) CATTERALL, WILLIAM A, UNIVERSITY OF WASHINGTON, SEATTLE, WASH. The molecular basis of electrical excitability (chick embryos, rats).

R01HL-22242-01 (PBC) WILSON, IRWIN B, UNIVERSITY OF COLORADO, CHEMISTRY DEPARTMENT, BOULDER, COLO. The converting enzyme of lung (cattle, human).

R01HL-22244-01 (SGYB) HAMMOND, GRAEME L, YALE UNIVERSITY, 333 CEDAR STREET, NEW HAVEN, CONN. Cardiopulmonary bypass and the vascular endothelium (dogs).

R23HL-22245-02 (CVB) SAUM, WILLIAM R, GEORGETOWN UNIVERSITY, 37TH AND O STREETS, N W, WASHINGTON, D C. Functional characteristics of atrial receptors (rats).

R01HL-22252-01 (BMT) SMITH, KEVIN M, UNIVERSITY OF CALIFORNIA, CHEMISTRY DEPARTMENT, DAVIS, CALIF. Synthesis of labeled hemes for protein NMR studies.

R01HL-22255-01 (EOC) CRIQUI, MICHAEL H, UNIV OF CALIFORNIA, SAN DIEGO, COMMUNITY MEDICINE DEPT, LA JOLLA, CALIF. The etiology/prevalence of peripheral arterial disease (human).

R01HL-22257-01 (BM) MADERAZO, EUFRONIO G, HARTFORD HOSPITAL, DEPARTMENT OF MEDICINE, HARTFORD, CONN. Leukokinesis enhancing factor and lung infections (human, rats).

R01HL-22258-01 (PHY) MAREN, THOMAS H, UNIVERSITY OF FLORIDA, BOX J-267 JHM HEALTH CENTER, GAINESVILLE, FLA New aspects of pharmacology related to carbonic anhydrase.

R01HL-22259-01 (TOX) CLARK, JAMES M, UNIVERSITY OF PENNSYLVANIA, INST/ENVIRONMENTAL MEDICINE, PHILADELPHIA, PA. Modification of susceptibility to oxygen poisoning (rats)

R01HL-22261-01 (CVB) TRIPPODO, NICK C, ALTON OCHSNER MEDICAL FOU, 1516 JEFFERSON HIGHWAY, NEW ORLEANS, LA Compliance of fluid spaces in advancing hypertension (rats)

R01HL-22264-01 (PHY) CHACKO, SAMUEL K, UNIVERSITY OF PENNSYLVANIA, 3800 SPRUCE, PHILADELPHIA, PA 19104 Regulation of contraction in vascular smooth muscle (dogs)

R01HL-22265-02 (BIO) MARTINEZ-CARRION, MARINO, MEDICAL COLLEGE OF VIRGINIA, P O BOX 727, MCV STATION, RICHMOND, VA Isozymes of heart glutamate aspartate transaminase (swine, ducks).

R01HL-22266-01 (SSS) RIFKIN, DANIEL B, NEW YORK MEDICAL SCHOOL, 550 FIRST AVENUE, NEW YORK, N Y. Production of proteases by lung cells in culture (human, rodents, rabbits, sheep).

R01HL-22269-01 (CVA) PARSONS, ROONEY L, UNIVERSITY OF VERMONT, GIVEN MEDICAL BUILDING, BURLINGTON, VT. Excitation-contraction coupling in enlarged hearts (rabbits).

R01HL-22270-01 (BBCA) SLAYTER, HENRY S, SIDNEY FARBER CANCER INST, 44 BINNEY STREET, BOSTON, MASS. Platelet glycoprotein (human).

R01HL-22273-01 (PHRA) FUNG, HO-LEUNG, S U N Y - AT BUFFALO, DEPT OF PHARMACEUTICS, AMHERST, N Y. Oral and lung absorption of nitroglycerin (rats).

R01HL-22274-01 (SGYB) MOSKOWITZ, MITCHELL S, SINAI HOSPITAL, 6767 WEST OUTER DRIVE, DETROIT, MICH. Quantitating in series effects in cardiac arrhythmias (dogs).

R01HL-22281-01 (CVB) MERGNER, WOLFGANG J, UNIVERSITY OF MARYLAND, 22 SOUTH GREENE STREET, BALTIMORE, MD. Microprobe analysis and metabolite levels of ischemic myocardium (dogs).

R01HL-22288-01 (PC) INAGAMI, TADASHI, VANDERBILT UNIVERSITY, BIOCHEMISTRY DEPARTMENT, NASHVILLE, TENN. Renin and precursors--Structure and function (mice).

R01HL-222B9-01 (HEM) LOSKUTOFF, OAVID J, SCRIPPS CLINIC & RES FON, 10666 NORTH TORREY PINES ROAD , LA JOLLA, CALIF. Endothelial cell mediated fibrinolysis (rabbits).

R01HL-22290-01 (BIO) INGWALL, JOANNE S, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Cardiac energy metabolism and protein synthesis (mice).

R01HL-22296-01 (CVB) ECKBERG, OWAIN L, VIRGINIA COMMONWEALTH UNIV, 12DO EAST BROAD STREET, RICHMOND, VA. Autonomic mechanisms in man.

R01HL-2229B-02 (TEC) KASS, EOWARD H, CHANNING LABORARTORY, 180 LONGWOOD AVENUE, BOSTON, MASS. Origins of hypertension (human).

R01HL-22301-01 (IMS) MOORE, VERNON L, VETERANS ADMINISTRATION HOSP, 50DO WEST NATIONAL AVENUE, WOOO, WIS. Immunogenetics of chronic pulmonary inflammation (mice).

R01HL-22302-01 (PTHA) REYNOLDS, HERBERT Y, YALE UNIVERSITY, 333 CEOAR STREET, NEW HAVEN, CONN. Immune responses in the human lung (also rabbits, monkeys).

R01HL-22306-01 (CVB) CAREY, ROBERT M, UNIVERSITY OF VIRGINIA, BOX 146, CHARLOTTESVILLE, VA. Renal catecholamines-- Pathophysiology of hypertension (dogs).

R23HL-22309-01 (PHRA) ORISCOLL, DAVID J, TEXAS CHILDRENS'S HOSPITAL, HOUSTON, TEX. Cardiovascular pharmacodynamics in immature dogs.

R01HL-22313-01 (CVA) MARTIN, CARROLL J, VIRGINIA MASON RESEARCH CTR, 1DDO SENECA STREET, SEATTLE, WASH. Lung elastic recoil--Age and disease (human).

R01HL-2231S-01 (SGYB) HARKEN, ALDEN H, OEPT OF CAROIOTHORACIC SURGERY, 3400 SPRUCE STREET, PHILAOELPHIA, PA. Intraoperative cardiac oxygen supply-demand (dogs, rabbits, rats).

R01HL-22321-01 (SGYB) BOURLANO, JOE O, PUROUE UNIVERSITY, BIOMEDICAL ENGINEERING CENTER , WEST LAFAYETTE, IND. Cardiac output from the pneumocardiogram (dogs).

R01HL-2232S-01 (BBCA) GILL, STANLEY J, OEPARTMENT OF CHIMSITRY, UNIVERSITY OF COLORADO, BOULOER, COLO. Thermodynamics in respiratory protein binding (human, trout).

R01HL-22326-01 (SGYB) HISTANO, MICHAEL B, DEPARTMENT OF MECHANICAL ENGR, COLORADO STATE UNIVERSITY, FORT COLLINS, COLO. Noninvasive measurement of cardiac output (dogs).

R01HL-22327-01 (SGYB) QUINN, JOHN A, 311-A TOWNE BUILDING/03, UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PA. Transport of arterial blood gases through skin (swine).

R01HL-22329-01 (SGYB) KANTROWITZ, ADRIAN, SINAI HOSPITAL OF OETROIT, 6767 WEST OUTER ORIVE, OETROIT, MICH. Active prosthetic myocardium--Effects on LV function (dogs).

R01HL-22333-01 (CVA) MASSARO, GLORIA O, UNIVERSITY OF MIAMI, POST OFFICE BOX 52D875, MIAMI, FLA. Cellular basis of small airways function (rats).

R01HL-2233B-01 (SGYB) RICHAROSON, PETER D, BROWN UNIVERSITY, BARUS ANO HOLLEY BUILOING, PROVIOENCE, R I. Platelet adhesion and aggregation in a flow chamber (human).

R01HL-22341-01 (PTHA) KOLETSKY, SIMON, INSTITUTE PATHOLOGY, 2D85 AOELBERT ROAO, CLEVELANO, OHIO. Pathogenesis of atherosclerosis in rats.

R23HL-22345-02 (SSS) BROWNELL, KELLY O, UNIVERSITY OF PENNSYLVANIA, 205 PIERSOL BUILOING, PHILAOELPHIA, PA. Behavioral cardiovascular compliance strategies.

R23HL-22345-02 0001 (SSS) BROWNELL, KELLY O. Behavioral cardiovascular compliance strategies--Long term modification of dietary patterns (human).

R23HL-22345-02 0002 (SSS) BROWNELL, KELLY O. Behavioral cardiovascular compliance strategies--Compliance with antihypertensive medication regimens (human).

R23HL-22346-01 (SGYB) AODONIZIO, V PAUL, UNIVERSITY OF PENNSYLVANIA, HARRISION OEPT SURGICAL RES, PHILAOELPHIA, PA. Hematological injury and pulmonary dysfunction (human, mammals).

R01HL-223S4-01 (CVA) KRUGER, FRED A, OHIO STATE UNIVERSITY, PHYSIOLOGICAL CHEMISTRY OEPT, COLUMBUS, OHIO. Alpha-adrenergic effects on heart metabolism (rats).

R01HL-2235S-01 (HEM) WEINSTEIN, MARK J, BOSTON VA HOSPITAL, 15D SOUTH HUNTINGTON AVENUE, BOSTON, MASS. Purification, structure and function of factor VIII (human).

R01HL-22361-01 (AFY) BALOWIN, KENNETH M, UNIVERSITY OF CALIFORNIA, OEPARTMENT OF PHYSIOLOGY, IRVINE, CALIF. Regulation of cardiac adaptation to exercise (rats).

R01HL-22367-01 (CTY) HARDIN, JAMES, BAYLOR COLLEGE OF MEOICINE, 1200 MOURSUNO AVENUE, HOUSTON, TEX. Estrogen receptors in very low density lipoproteins (chicken livers).

R01HL-22371-01 (RAD) BIGLER, ROONEY E, SLOAN-KETTERING INSTIUTE, 410 EAST 68TH STREET, NEW YORK, N Y. Vascular changes in lung exposed to radiation.

R01HL-2237B-01 (EDC) LEITCH, CYNTHIA J, UNIVERSITY OF WASHINGTON, CMNTY HLTH CARE SYSTEMS OEPT, SEATTLE, WASH. Psyco-somatic predictors of CHO in adolescence (human).

R01HL-223BO-01 (SRC) GOOLEY, ALEGRO J, HERMAN KEIFER HLTH COMPLEX, 1151 TAYLOR, OETROIT, MICH. Oetroit hypertension control program.

R23HL-223B3-01 (BIO) HANCE, ALLAN J, STANFORO UNIVERSITY, OEPT OF RESPIRATORY MEOICINE, STANFORO, CALIF. Biosynthesis--Response to oxygen depletion (human, primates, rats).

R01HL-223B7-01 (BMT) RIORDAN, JAMES F, BIOPHYSICS RESEARCH LABORATORY, 721 HUNTINGTON AVE, BOSTON, MASS. Metalloenzymes and disease.

R01HL-22390-01 (CVB) KOTCHEN, THEOOORE A, UNIVERSITY OF KENTUCKY, OEPARTMENT OF MEOICINE, LEXINGTON, KY. Effect of chloride on renin (rats, dogs).

R01HL-22401-01 (PBC) PEMRICK, SUZANNE M, S U N Y -OOWNSTATE MEO CTR, OEPT OF BIOCHEMISTRY, BROOKLYN, N Y. Regulation of tension and active state in the heart.

R01HL-22402-01 (SSS) WEST, SEYMOUR S, UNIVERSITY OF ALABAMA, UNIVERSITY STATION, BIRMINGHAM, ALA. Heparin-biophysical, chemical and biological aspects (mice, human).

R01HL-22406-01 (AFY) O'AOUST, BRIAN G, VIRGINIA MASON RESEARCH CENTER, 1000 SENECA STREET, SEATTLE, WASH. Isobaric vascular bubbles and decompression sickness (goats, models).

R01HL-22411-01 (CVB) MORRIS, MARIANA, BOWMAN GRAY SCHOOL OF MEOICINE, 300 S HAWTHORNE RO, WINSTON-SALEM, N C. Neuroendocrine involvement in hypertension (rats).

R01HL-22413-01 (SGYB) O'AQUST, BRIAN G, VIRGINIA MASON RESEARCH CENTER, 1DDO SENECA STREET, SEATTLE, WASH. Enhanced detection of bubbles in Ooppler flow signals (human).

R01HL-22415-01 (CVA) BROOKS, STUART M, UNIVERSITY OF CINCINNATI, 231 BETHESDA AVENUE, CINCINNATI, OHIO. Mechanisms responsible for disease severity in asthma (human).

R01HL-22417-01 (SGYB) KOIVO, ANTTI J, SCHOOL OF ELECTRICAL ENGR, PUROUE UNIVERSITY, WEST LAFAYETTE, IND. Microprocessors in medical applications (dogs).

R01HL-2241B-01 (CVA) HARPER, RONALD M, CENTER FOR THE HEALTH SCIENCES, UNIVERSITY OF CALIFORNIA, LOS ANGELES, CALIF. Neural control of cardio-respiratory function (cats).

R01HL-22426-01 (PHY) GILES, WAYNE R, UNIVERSITY OF WASHINGTON, CENTER/BIOENGINEERING RF-52, SEATTLE, WASH. Initiation of the heartbeat--A voltage-clamp study (bullfrogs, rabbits).

R01HL-22432-01 (BBCB) FUNG, LESLIE W, WAYNE STATE UNIVERSITY, OEPARTMETNT OF CHEMISTRY, DETROIT, MICH. Molecular studies of human erythrocyte membranes.

R01HL-2243S-02 (CVA) GLAUSER, FREDERICK L, MEOICAL COLLEGE OF VIRGINIA, BOX 93 12DO E BROAD STREET, RICHMONO, VA. Pulmonary alveolar-capillary permeability characteristic (dogs).

R23HL-22437-01 (PTHB) KREUTZER, OONALO L, UNIVERSITY OF CONNECTICUT, OEPARTMENT OF PATHOLOGY, FARMINGTON, CONN. Leukotactic mediators in lung inflammatory reactions (rats, rabbits, human).

R23HL-2243B-01 (CVB) REINECK, HENRY J, UNIVERSITY OF TEXAS, 7703 FLOYO CURL ORIVE, SAN ANTONIO, TEX. The etiology of genetic hypertension (rats).

R01HL-22444-01 (PTHA) REID, LYNNE M, CHILOREN'S HOSPITAL MEO CENTER, 3DO LONGWOOO AVENUE, BOSTON, MASS. Bronchial mucus production in organ culture (human).

R01HL-22445-01 (SGYB) KAYE, MICHAEL P, MAYO FOUNDATION, 20D FIRST STREET SOUTHWEST, MINNEPOLIS, MINN. Platelet inhibitors--Effect on coronary bypass grafts (dogs).

R01HL-22446-01 (CVA) SANDBERG, LAWRENCE B, UNIVERSITY OF UTAH, DEPARTMENT OF PATHOLOGY, SALT LAKE CITY, UTAH. Chemical and functional studies of low copper in lung (pigs).

R23HL-2244B-01 (SGYA) NOWYGROO, ROMAN, COLUMBIA-PRESBYTERIAN MED CTR, OEPARTMENT OF SURGERY, NEW YORK, N Y. Modulation of heart graft antigenicity by perfusion (rats).

R01HL-22455-01 (SGYB) ECKSTEIN, EUGENE C, UNIVERSITY OF MIAMI, P O BOX 248294, CORAL GABLES, FLA. Platelet concentration in the marginal layer (dogs, human).

R01HL-224S6-01 (IMS) MORSE, JANE H, COLUMBIA COLLEGE, OEPARTMENT OF MEOICINE, NEW YORK, N Y. Lipoproteins in bioregulation of the immune response (mice, human).

R01HL-22461-01 (BBCB) LEHRER, SHERWIN S, BOSTON BIOMEOICAL RES INST, 20 STANIFORO STREET, BOSTON, MASS. Cardiac tropomyosin and tropomyosin-action interactions (rabbit).

R01HL-22463-02 (CVA) GIL, JOAN, HOSP OF UNIV OF PENNSYLVANIA, 874 MALONEY BLOG HUP/G1, PHILAOELPHIA, PA. Pinocytotic vesicles and pulmonary edema (rats).

R01HL-22470-01 (CVA) CARIOE, VICENTE J, YALE UNIVERSITY, 333 CEOAR STREET, NEW HAVEN, CONN. Liposome myocardial uptake in infarct and ischemia (dogs, rats, mice).

R01HL-22471-01 (HEM) OWEN, WHYTE G, UNIVERSITY OF IOWA, OEPARTMENT OF PATHOLOGY, IOWA CITY, IOWA. Biochemistry of prothrombin quick (human).

R01HL-22472-01 (EDC) FISHER, EOWIN B, JR, WASHINGTON UNIVERSITY, OEPARTMENT OF PSYCHOLOGY, ST LOUIS, MO. Smoking risk-factor reduction--Maintenance strategies (human).

R01HL-22474-01 (MET) FOGELMAN, ALAN M, UNIVERSITY OF CALIFORNIA, 10833 LE CONTE AVENUE, LOS ANGELES, CALIF. Cholesterol metabolism and atherosclerosis (rats, human, rabbits).

R01HL-224B2-01 (CVB) HUMPHREYS, MICHAEL H, SAN FRANCISCO GENERAL HOSPITAL, ROOM 350 BUILOING 100, SAN FRANCISCO, CALIF. Circulatory hemodynamics and sodium excretion (dogs).

R01HL-224B4-01 (CVA) MARTIN, PAUL J, MT SINAI HOSPITAL, 1800 E 105 STREET, CLEVELANO, OHIO. Neural control of cardiac conduction and excitation (dogs).

R01HL-224B6-01 (BIO) SLAKEY, LINOA L, UNIVERSITY OF MASSACHUSETTS, BIOCHEMISTRY OEPARTMENT, AMHERST, MASS. Enzyme regulation in cultured arterial cells (swine).

R23HL-22490-01 (PHRA) HAROEN, T KENDALL, UNIVERSITY OF NORTH CAROLINA, PHARMACOLOGY OEPARTMENT, CHAPEL HILL, N C. Neurotransmitter receptors of cultured heart cells.

R01HL-22S00-01 (HEO) ZACHMAN, RICHARD D, UNIVERSITY OF WISCONSIN, 202 SOUTH PARK STREET, MAOISON, WIS. Conversion of choline to phosphatidylcholine in lung (rabbits, pigs).

R01HL-22S02-01 (HEM) RITTENHOUSE-SIMMONS, SUSAN, VETERANS AOMINISTRATION HOSP, 150 SOUTH HUNTINGTON AVENUE, BOSTON, MASS. Role of phosphoinositides in human platelet secretion.

R01HL-2250S-01 (HEM) MC DONAGH, RICHARO P, JR, UNIVERSITY OF NORTH CAROLINA, OEPT OF PATHOLOGY, 228-H, CHAPEL HILL, N C 27514. Molecular pathology of fibrinogen and factor XIII (human, animals).

R01HL-22506-01 (CVB) FROHLICH, EOWARO O, ALTON OCHSNER MEOICAL FON, 1516 JEFFERSON HIGHWAY, NEW ORLEANS, LA. Hemodynamics of the clinical hypertensions.

R01HL-22512-01 (RAD) HARTLEY, CRAIG J, THE METHOOIST HOSPITAL, 6516 BERTNER, HOUSTON, TEX. Ultrasonic instrumentation for cardiovascular studies.

R01HL-22S14-01 (EDC) GLASS, OAVID C, C U N Y - AT NEW YORK, 33 WEST 42 STREET, NEW YORK, N Y. Behavior patterns, stress, and catecholamines.

R01HL-22517-01 (SGYB) MC CARTNEY, MICHAEL L, WASHINGTON UNIVERSITY, BOX 11270ELECTRICAL ENGR OEPT , ST LOUIS, MO. Engineering development of an ultrasonic ventilometer (human).

R01HL-22S20-01 (PTHA) STAHLMAN, MILOREO T, VANOERBILT UNIVERSITY, OEPARTMENT OF PEOIATRICS, NASHVILLE, TENN. Pulmonary vascular response to group B Streptococci (human, mammals).

R01HL-22522-01 (PHRA) RZESZOTARSKI, WACLAW J, GEORGE WASHINGTON UNIVERSITY, 2300 EYE STREET N W, WASHINGTON, O C. Cardioselectivity of beta-adrenoceptor antagonists.

R13HL-22525-01 (NSS) ROCHESTER, OUDLEY F, PULMONARY OIVISION - BOX 225, UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VA. International symposium on the diaphragm (Virginia).

R01HL-22527-01 (CVB) BAILEY, JOHN M, GEORGE WASHINGTON UNIVERSITY, 2300 EYE STREET N W, WASHINGTON, D C Prostacyclin thromboxanes in the cardiovascular system (human, rabbits)

R01HL-22528-02 (EOC) TAGER, IRA B, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS Early risk predictors for chronic pulmonary disease (human)

R01HL-22530-01 (SSS) POWERS, JAMES C, SCHOOL OF CHEMISTRY, GEORGIA INST OF TECHNOLOGY, ATLANTA, GA Active site studies on blood proteases (human)

R01HL-22532-01 (MET) SCHROEPFER, GEORGE J, JR, RICE UNIVERSITY, DEPARTMENT OF BIOCHEMISTRY, HOUSTON, TEX Inhibitors of cholesterol biosynthesis (rats, mice, yeast).

R01HL-22538-01 (BIO) IYENGAR, MELKOTE R, UNIVERSITY OF PENNSYLVANIA, 38DD SPRUCE STREET, PHILADELPHIA, PA Myosin as a multi-enzyme complex (dogs, rabbits).

R01HL-22546-02 (CVA) ECKBERG, OWAIN L, MEDICAL COLLEGE OF VIRGINIA, DEPARTMENT OF MEDICINE, RICHMOND, VA. Baroreceptor reflex mechanisms in man.

R01HL-22547-01 (EOC) SURWIT, RICHARD S, DUKE UNIVERSITY, BOX 3416, DURHAM, N C. Behavioral treatment of Raynaud's disease (human).

R01HL-22549-02 (CVA) TAYLOR, AUBREY E, COLLEGE OF MEDICINE, UNIVERSITY OF SOUTH ALABAMA, MOBILE, ALA Transport across alveolar capillary membrane (dogs)

R01HL-22550-02 (CTY) LEMANSKI, LARRY F, UNIVERSITY OF WISCONSIN, 1255 LINDEN DRIVE, MADISON, WIS. Genetic cardiomyopathies in salamanders and hamsters.

R01HL-22552-02 (PTHA) EGAN, EDMUND A, CHILDRENS HOSPITAL, 219 BRYANT STREET, BUFFALO, N Y. Abnormal alveolar permeability and lung disease (sheep).

R01HL-22555-01 (SSS) PINCKARD, ROBERT N, UNIVERSITY OF TEXAS, 7703 FLOYD CURL DRIVE, SAN ANTONIO, TEX. Structure and function of platelet activating factor (rabbits, human).

R01HL-22560-02 (CBY) SATIR, PETER, ALBERT EINSTEIN COLLEGE OF MED, 1300 MORRIS PARK, BRONX, N Y. Structure and motion of cilia (Tetrahymena, mussels).

R01HL-22561-01 (PHY) FARA, JOHN W, JOHNS HOPKINS HOSPITAL, 601 NORTH BROADWAY, BALTIMORE, MD. Hormonal control of mesenteric circulation (cats).

R01HL-22562-02 (PHY) JOYNER, RONALD W, UNIVERSITY OF IOWA, DEPT OF PHYSIOLOGY & BIOPHYSIC, IOWA CITY, IOWA. Mechanism of cardiac action potential propagation (tunicates).

R01HL-22563-02 (CVB) DUNN, MICHAEL J, CASE WESTERN RESERVE UNIV, MEDICINE DEPARTMENT, CLEVELAND, OHIO. Prostaglandins, the kidney and hypertension (rats).

R01HL-22566-01 (MCHA) ROGERS, MICHAEL E, VIRGINIA COMMONWEALTH UNIV, MCB STATION - BOX 666, RICHMOND, VA. Mesoionic purinones as phosphodiesterase inhibitors.

R01HL-22567-01 (MET) SAMUEL, PAUL, ROCKEFELLER UNIVERSITY, 1230 YORK AVENUE, NEW YORK, N Y. Validation of a cholesterol absorption method in man.

R01HL-22568-01 (PHRA) MC CALL, DAVID, UNIVERSITY OF CONNECTICUT, HEALTH CENTER, FRAMINGTON, CONN. pH effect in heart cells--Influence of cardiac drugs (tissue culture, rats).

R01HL-22569-02 (PHY) TAYLOR, AUBREY E, UNIVERSITY OF SOUTH ALABAMA, DEPARTMENT OF PHYSIOLOGY, MOBILE, ALA. Intestinal secretion--Capillary and tissue forces (dogs, cats).

R01HL-22570-01 (NSS) REYNOLDS, JACQUELINE A, DUKE UNIVERSITY, BIOCHEMISTRY DEPARTMENT, DURHAM, N C. Interactions of sterols in biological systems (human).

R01HL-22573-01 (SGYB) ZERVAS, NICHOLAS T, MASSACHUSETTS GENERAL HOSPITAL, FRUIT STREET, BOSTON, MASS. Treatment of post surgical vasoconstriction (dogs, monkeys, human, rats).

R23HL-22575-01 (PHRA) TAUBERT, KATHRYN A, UNIVERSITY OF CALIFORNIA, PROGRAM IN BIOMEDICAL SCIENCES, RIVERSIDE, CALIF. Factors modifying cardiac digoxin effects and content (dogs, cats).

R01HL-22581-02 (SRC) ECKBERG, DWAIN L, VIRGINIA COMMONWEALTH UNIV, 1200 EAST BROAD STREET, RICHMOND, VA. Neurocirculatory control in diabetes mellitus (human).

R01HL-22582-01 (IMS) HALONEN, MARILYN J, UNIVERSITY OF ARIZONA, DEPARTMENT OF MICROBIOLOGY, TUCSON, ARIZ. Pulmonary and circulatory alterations induced by IGE.

R01HL-22583-02 (PTHA) MASON, REGINALD G, JR, UNIVERSITY OF SOUTH FLORIDA, MDC BOX 11, TAMPA, FLA. Ultrastructural study of endothelium in thrombosis (human).

R01HL-22585-01 (SGYB) CHUANG, HANSON Y, UNIVERSITY OF SOUTH FLORIDA, DEPT OF PATHOLOGY, TAMPA, FLA. Plasma proteins adsorbed to artificial organs (human, rabbits).

R01HL-22594-01 (CVB) ZUCKER, IRVING H, UNIVERSITY OF NEBRASKA, 42ND & DEWEY AVENUE, OMAHA, NEBR. Reflex control of the circulation in heart failure (dogs).

P01HL-22602-01 (HLBB) COTRAN, RAMZI S, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Pathophysiology of the endothelium.

P01HL-22602-01 0001 (HLBB) GIMBRONE, MICHAEL A, JR. Pathophysiology of the endothelium--Platelet-endothelial interactions in vitro (human, cattle).

P01HL-22602-01 0002 (HLBB) VENKATACHALAM, MANJERI A. Pathophysiology of the endothelium--Molecular charge and endothelial permeability (rats, mice).

P01HL-22602-01 0003 (HLBB) COTRAN, RAMZI S. Pathophysiology of the endothelium--Mechanisms of endothelial proliferation (human, animals).

P01HL-22602-01 0004 (HLBB) STEMERMAN, MICHAEL. Pathophysiology of the endothelium--Endothelium, platelets smooth muscle and atherosclerosis (rabbits).

P01HL-22602-01 9001 (HLBB) VENKATACHALAM, MANJERI A. Pathophysiology of the endothelium--Morphology core.

P01HL-22602-01 9002 (HLBB) GIMBRONE, MICHAEL A, JR. Pathophysiology of the endothelium--Core--Culture of blood vessel--Derived cells.

R01HL-22603-01 (CVB) HALL, CHARLES E, UNIVERSITY OF TEXAS, PHYSIOLOGY AND BIOPHYSICS DEPT, GALVESTON, TEX. Trace metals, vascular activity and hypertension (rats).

R01HL-22604-01 (SGYB) JACOBS, JOHN E, NORTHWESTERN UNIVERSITY, 2145 SHERIDAN ROAD, EVANSTON, ILL. Non-invasive system for arteriosclerosis studies (human).

R01HL-22607-01 (MET) HAZZARD, WILLIAM R, HARBORVIEW MEDICAL CENTER 326 9TH AVENUE, SEATTLE, WASH Role of apolipoprotein E in lipoprotein metabolism (human)

R01HL-22612-01 (MCHA) SCHWARTZ, JEFFREY, PRINCETON UNIVERSITY CHEMISTRY DEPARTMENT, PRINCETON, N J Stabilized prostacyclins to treat vascular disease

R01HL-22617-01 (CVB) BLAINE, EDWARD H, TEMPLE UNIVERSITY 3420 N BROAD STREET, PHILADELPHIA, PA Angiotensin, hypertension and the CNS (sheep)

R01HL-22618-01 (MET) KASHYAP, MOTI L, CINCINNATI GENERAL HOSPITAL, 234 GOODMAN STREET, CINCINNATI, OHIO Role of apolipoproteins in hypertriglyceridemia (human)

P01HL-22619-01 (HLBB) SCHWARTZ, ARNOLD, UNIVERSITY OF CINCINNATI, 231 BETHESDA AVENUE, CINCINNATI, OHIO Cellular mechanisms of heart failure.

P01HL-22619-01 0001 (HLBB) LANE, LOIS K. Cellular mechanisms of heart failure--Cell membrane isolation and reconstitution (dogs, lambs)

P01HL-22619-01 0002 (HLBB) COLLINS, JOHN. Cellular mechanisms of heart failure--Structure of sodium, potassium-adenosine triphosphatase (lambs, dogs).

P01HL-22619-01 0003 (HLBB) SCHWARTZ, ARNOLD. Cellular mechanisms of heart failure--Digitalis induced inotropy in myocardial ischemia heart failure (animals).

P01HL-22619-01 0004 (HLBB) WALLICK, EARL. Cellular mechanisms of heart failure--Mechanism of action of Na, K-ATPase (sheep, cattle)

P01HL-22619-01 0005 (HLBB) POTTER, JAMES D. Cellular mechanisms of heart failure--Molecular mechanism of regulation of cardiac muscle contraction (cattle).

P01HL-22619-01 0006 (HLBB) SOLARO, R JOHN. Cellular mechanisms of heart failure--Phosphorylation of contractile proteins in cardiac muscle contraction (dogs, rabb.

P01HL-22619-01 0007 (HLBB) MARTIN, ANNE F. Cellular mechanisms of heart failure--Regulation of contractile protein levels in heart muscle (rats)

P01HL-22619-01 0008 (HLBB) DISALVO, JOSEPH. Cellular mechanisms of heart failure--Molecular mechanisms and differential contractile responsiveness in VSM (dogs).

P01HL-22619-01 0009 (HLBB) SOLARO, R JOHN. Cellular mechanisms of heart failure--Sarcoplasmic reticulum in cardiac, skeletal and smooth muscle (rabbits, dogs).

P01HL-22619-01 0010 (HLBB) MATLIB, M ABDUL. Cellular mechanisms of heart failure--Mitochondria in heart and smooth muscle (rabbits, rats, dogs).

P01HL-22619-01 0011 (HLBB) JACKSON, RICHARD. Cellular mechanisms of heart failure--Reaction of lipoproteins and apolipoproteins with lipoprotein lipase (cattle).

P01HL-22619-01 0012 (HLBB) KASHYAP, MOTI L. Cellular mechanisms of heart failure--Apolipoproteins in hypertriglyceridemia (human).

P01HL-22619-01 9001 (HLBB) FRANKLIN, DEAN. Cellular mechanisms of heart failure--Experimental pathological models core.

P01HL-22619-01 9002 (HLBB) WALLICK, EARL. Cellular mechanisms of heart failure--Medicinal chemistry and clinical intervention.

P01HL-22619-01 9003 (HLBB) MANDEL, FREDERIC. Cellular mechanisms of heart failure--Computer facility core.

R23HL-22621-01 (HEM) HEBBEL, ROBERT P, UNIVERSITY OF MINNESOTA, BOX 480 MAYO MEMORIAL BUILDING, MINNEAPOLIS, MINN. Blood cell-mediated pulmonary (human).

R01HL-22622-01 (CVA) BLOCK, A JAY, UNIVERSITY OF FLORIDA, BOX J-225 JHM HEALTH CENTER, GAINESVILLE, FLA. Sleep apnea and desaturation-mechanisms and incidence (human).

R01HL-22623-01 (CVB) BAGDADE, JOHN D, PROVIDENCE MEDICAL CENTER, 500 17TH AVENUE, SEATTLE, WASH. Polyamines cellular mediators of atherogenesis (human).

R01HL-22627-01 (SGYB) MASON, REGINALD G, JR, UNIVERSITY OF SOUTH FLORIDA, 12901 N 30TH STREET, BOX 11, TAMPA, FLA. An inhibitor of platelet adhesion to artificial organs (human).

P01HL-22633-01 (HLBB) MARSH, JULIAN B, MED COLL OF PENNSYLVANIA, 3300 HENRY AVENUE, PHILADELPHIA, PA. Cellular and molecular biology of lipoprotein metabolism.

P01HL-22633-01 0001 (HLBB) MARSH, JULIAN B. Cellular and molecular biology of lipoprotein metabolism--Secretion of lipoproteins by the perfused liver (rats, rabbits).

P01HL-22633-01 0002 (HLBB) ROTHBLAT, GEORGE. Cellular and molecular biology of lipoprotein metabolism--Sterol metabolism in tissue culture cells.

P01HL-22633-01 0003 (HLBB) SCHICK, PAUL K. Cellular and molecular biology of lipoprotein metabolism--Sterol metabolism in platelets and megakaryocytes (human, rabbits, guinea pigs).

P01HL-22633-01 0004 (HLBB) PHILLIPS, MICHAEL C. Cellular and molecular biology of lipnprotein metabolism--Lipid-lipid and lipid-protein interactions in serum lipoproteins (human, rats).

P01HL-22633-01 9001 (HLBB) ROTHBLAT, GEORGE. Cellular and molecular biology of lipoprotein metabolism--Tissue culture core.

P01HL-22633-01 9002 (HLBB) MARSH, JULIAN B. Cellular and molecular biology of lipoprotein metabolism--Lipoprotein laboratory core

R01HL-22636-01 (SGYB) GRAUSZ, JOHN P, MILWAUKEE COUNTY MED COMPLEX, 8700 WEST WISCONSIN AVENUE, MILWAUKEE, WIS Newborn lung function during mechanical ventilation (human).

R01HL-22641-01 (CVB) LEVITZKY, MICHAEL G, LOUISIANA STATE UNIVERSITY, 1542 TULANE AVENUE, NEW ORLEANS, LA Ventilation, perfusion, and systemic arterial reflexes (dogs).

R01HL-22650-01 (HEM) MILLER, MARILYN E, BROOKHAVEN NATIONAL LABORATORY, MEDICAL DEPARTMENT, UPTON, N Y. Regulatory mechanisms of erythropoietin production (human, rats, mice).

R01HL-22651-01 (PBC) MARTIN, ANNE F, UNIVERSITY OF CINCINNATI, 231 BETHESDA AVENUE, CINCINNATI, OH. Control of protein metabolism in heart muscle.

R01HL-22654-01 (BBCB) JOSEPHS, ROBERT, UNIVERSITY OF CHICAGO, 950 EAST 58TH STREET, CHICAGO, ILL. Molecular structure of sickle cell fibers (human).

R01HL-22661-01 (SGYB) MORTENSEN, J D, UNIVERSITY OF UTAH, 520 WAKARA WAY, SALT LAKE CITY, UTAH. Chronic total cardiopulhonary mechanical substitution (sheep).

R01HL-22664-01 (CVA) HOLLENBERG, MILTON, VETERANS ADMINISTRATION HOSP, 4150 CLEMENT STREET, SAN FRANCISCO, CALIF. Regulation of myocardial cell growth (rats, guinea pigs).

R01HL-22667-01 (CV8) KOUSHANPOUR, ESMAIL, NORTHWESTERN UNIVERSITY, 303 EAST CHICAGO AVENUE, CHICAGO, ILL. Mechanisms of baroreceptor adaptation in hypertension (dogs).

R23HL-22669-01 (CV8) LONGHURST, JOHN C, UNIVERSITY OF TEXAS, 5323 HARRY HINES, DALLAS, TEX. Cardiovascular effects from visceral afferents (dogs).

R01HL-22671-01 (HEM) KAY, MARQUERITE M B, VA WADSWORTH HOSPITAL CENTER, WILSHIRE & SAWTELLE BLVDS, LOS ANGELES, CALIF. Removal of senescent and stored human red cells.

R01HL-22676-01 (PTHA) RICHERSON, HAL B, UNIVERSITY HOSPITALS, ALLERGY-IMMUNOLOGY DIVISION, IOWA CITY, IOWA. Pathogenesis in experimental interstitial pneumonitis (rabbits).

R01HL-22682-01 (B8CB) TALL, ALAN R, COLUMBIA UNIVERSITY, 630 WEST 168TH STREET, NEW YORK, N Y. Structure and function of high density lipoprotein (human, rat).

R01HL-22685-01 (PHRA) WIGGINS, JAY R, 12901 NORTH 30TH STREET, TAMPA, FLA. Drugs and excitation-contraction coupling in heart (animals).

R01HL-22699-01 (SGY8) TACKER, WILLIS A, JR, PURDUE UNIVERSITY, A A POTTER ENGINEERNING CENTER, WEST LAFAYETTE, IND. Defibrillation electrode studies (dogs, swine).

R01HL-22715-01 (CVA) KENDRICK, JOHN E, UNIVERSITY OF WISCONSIN, 470 NORTH CHARTER STREET, MADISON, WIS. Neural integration of the cardiovascular reflexes (dogs)).

R01HL-22718-01 (PHRA) ABRAMSON, FRED P, GEORGE WASHINGTON UNIVERSITY, 2300 EYE STREET, N W, WASHINGTON, D C. Cardiovascular drug interactions--Metabolism models (dogs).

R01HL-22723-01 (CVA) PETTY, THOMAS L, UNIVERSITY OF COLORADO, 4200 EAST NINTH AVENUE, DENVER, COLO. The morphologic basis of airflow obstruction (human).

R23HL-22728-01 (CV8) BLAIR, MARTHA L, UNIVERSITY OF ROCHESTER, 601 ELMWOOD AVENUE, ROCHESTER, N Y. Neural control of renin secretion (dogs).

R01HL-22729-01 (P8C) BIENKOWSKI, ROBERT S, ALBERT EINSTEIN COLLEGE OF MED, 1300 MORRIS PARK AVENUE, BRONX, N Y. Intracellular degradation of newly synthesized collagen (human, chick, rabbit).

R01HL-22732-01 (CVA) FOREMAN, ROBERT D, UNIVERSITY OF OKLAHOMA, POST OFFICE BOX 26901, OKLAHOMA CITY, OKLA. Central organization of cardiac afferent nerves (cats, monkeys).

R01HL-22738-01 (CV8) MAYROVITZ, HARVEY N, MIAMI HEART INSTITUTE, 4701 NORTH MERIDIAN AVENUE, MIAMI BEACH, FLA. Role of bioelectric potentials in platelet adherence (bats, rats, hamsters).

R01HL-22739-01 (PTHA) STARY, HERBERT C, LOUISIANA STATE UNIVERSITY, DEPARTMENT OF PATHOLOGY, NEW ORLEANS, LA. Evolution and progression of pediatric atherosclerosis.

R01HL-22740-01 (EDC) WILLIAMS, REDFORD B, JR, DUKE UNIVERSITY, BOX 3416, DURHAM, N C. Behavior and cardiovascular disease--Basic mechanisms (human).

R01HL-22741-01 (SGYA) BERNSTEIN, EUGENE F, UNIV OF CALIFORNIA, SAN DIEGO, DEPARTMENT OF SURGERY, SAN DIEGO, CALIF. Arteriovenous connections in extremity revascularization (dogs).

R23HL-22745-01 (CV8) BORDERS, STEPHEN E, UNIVERSITY OF CALIFORNIA, DEPARTMENT OF PATHOLOGY M-012 , LA JOLLA, CALIF. Vascular mechanics and structure in hypertension (miniature swine).

R23HL-22747-01 (NEUA) DORMER, KENNETH J, UNIVERSITY OF OKLAHOMA, POST OFFICE BOX 26901, OKLAHOMA CITY, OKLA. Cardiodynamics and hypertension under cerebellar control (dogs).

R01HL-22748-01 (MET) WITZTUM, JOSEPH L, WASHINGTON UNIVERSITY, 4566 SCOTT AVENUE, ST LOUIS, MO. Effect of bile sequestration on VLDL metabolism (human).

R01HL-22750-01 (CV8) JOHNSON, ROBERT A, MASSACHUSETTS GENERAL HOSPITAL, CARDIAC UNIT, MEDICAL SERVICES, BOSTON, MASS. Digoxin in heart failure with sinus rhythm (human).

R01HL-22759-01 (SGY8) TACKER, WILLIS A, JR, PURDUE UNIVERSITY, BIOMEDICAL ENGINEERING CENTER , WEST LAFAYETTE, IND. Regional myocardial blood flow during hypothermia (dogs).

R01HL-22767-01 (PHY) RAMON, FIDEL, DUKE UNIVERSITY, DEPARTMENT OF PHYSIOLOGY, DURHAM, N C. Model system for cardiac action potentials (squid, axons).

R01HL-22771-01 (B8C8) DOMBROSE, FREDERICK A, UNIVERSITY OF NORTH CAROLINA, DEPARTMENT OF PATHOLOGY, CHAPEL HILL, N C. Thrombogenic phospholipid surfaces (cattle).

R23HL-22775-01 (PHRA) GALPER, JONAS B, PETER BENT BRIGHAM HOSPITAL, 721 HUNTINGTON AVENUE, BOSTON, MASS. Muscarinic receptors in the developing heart (chick embryo).

R01HL-22778-01 (MCHA) WALBA, DAVID M, UNIVERSITY OF COLORADO, DEPARTMENT OF CHEMISTRY, BOULDER, COLO. Total synthesis of natural cardiotonic ionophores.

R01HL-22780-01 (HEM) TAYLOR, JOHN F, HEALTH SCIENCES CENTER, POST OFFICE BOX 35260, LOUISVILLE, KY. Factors modifying the reaction properties of HgS (human).

R01HL-22783-01 (SGY8) IMPARATO, ANTHONY M, NEW YORK UNIV MED SCHOOL, 550 FIRST AVENUE, NEW YORK, N Y. Hemodynamic induction of intimal fibromuscular lesion.

R01HL-22784-01 (SGY8) IMPARATO, ANTHONY M, NEW YORK UNIVERSITY, 550 FIRST AVENUE, NEW YORK, N Y. Ductus arteriosus closure--An arterial lesion model (rabbits)

R23HL-22787-01 (SGYB) SCHILLER, NELSON B, UNIVERSITY OF CALIFORNIA, ADULT NONINVASIVE LABORATORY, SAN FRANCISCO, CALIF. Cardiac volume by biplane echocardiography (human)

R23HL-22799-01 (HEM) DAVIS, ALVIN E, III, CENTER FOR BLOOD RESEARCH, 800 HUNTINGTON AVENUE, BOSTON MASS Interaction of the complement and coagulation systems (monkeys)

R01HL-22801-01 (SGY8) WILLIAMS, THOMAS E, JR, OHIO STATE UNIV HOSPITALS, 410 W TENTH AVENUE, COLUMBUS, OHIO Analysis of coronary artery behavior (dogs)

R01HL-22802-01 (EDC) BARANOWSKI, TOM, WEST VIRGINIA UNIVERSITY, 3110 MACCORKLE AVENUE, S E, CHARLESTON, W VA A rural mining community hypertension control project (human).

R01HL-22809-01 (EDC) DEMBROSKI, THEODORE M, ECKERD COLLEGE, P O BOX 12560, ST PETERSBURG, FLA. Coronary-prone behavior and cardiovascular reactivity (human).

R01HL-22812-01 (MET) WILCOX, HENRY G, UNIVERSITY OF MISSOURI, DEPARTMENT OF PHARMACOLOGY, COLUMBIA, MO. Regulation of hepatic production of HDL (rats).

R01HL-22813-01 (CV8) PITTS, BARRY J, BAYLOR COLLEGE OF MEDICINE, 1200 MOURSUND AVENUE, HOUSTON, TEX. Palmitylcarnitine inhibition of ion pumps in ischemia (dogs).

R01HL-22815-01 (SGY8) WIENER, LESLIE, JEFFERSON MEDICAL COLLEGE, DIVISION OF CARDIOLOGY, PHILADELPHIA, PA. Regional myocardial function after revascularization (dogs).

R23HL-22818-01 (P8C) CHENG, PI-WAN, CASE WESTERN RESERV UNIVERSITY, 2101 ADELBERT ROAD, CLEVELAND, OHIO. Biosynthesis of human respiratory mucous glycoprotein (also dog).

R01HL-22821-01 (BMT) HAWKRIDGE, FRED M, VIRGINIA COMMONWEALTH UNIV, DEPARTMENT OF CHEMISTRY, RICHMOND, VA. A routine screening analysis for myoglobinemia.

R23HL-22823-01 (BM) WARR, GLENN A, JOHNS HOPKINS UNIVERSITY, 615 NORTH WOLFE STREET, BALTIMORE, MD. Phagocytic and immune defense mechanisms of the lung (mice).

R01HL-22828-01 (CV8) DOBSON, JAMES G, JR, UNIVERSITY OF MASSACHUSETTS, 55 LAKE AVENUE NORTH, WORCESTER, MASS. Adenosine and catecholamine interaction in the heart (rats).

R01HL-22836-01 (CV8) STEELE, THOMAS H, UNIVERSITY OF WISCONSIN, 1300 UNIVERSITY AVENUE, MADISON, WISC. The spontaneously hypertensive kidney (rats).

R01HL-22838-01 (EDC) STEVENS, CLAUD E, NEW YORK BLOOD CENTER, INC, 310 EAST 67TH STREET, NEW YORK, N Y. Post-transfusion hepatitis in newborn children.

R23HL-22839-01 (MBY) OSTRO, MARC J, UNIVERSITY OF ILLINOIS, 835 SOUTH WOLCOTT, CHICAGO, ILL. Cellular translation of liposomally-delivered mRNA (human, mammals).

R01HL-22843-01 (CVA) SHAFFER, THOMAS H, TEMPLE UNIVERSITY, 3420 NORTH BROAD STREET, PHILADELPHIA, PA. Pulmonary physiology in liquid ventilation (lambs).

R01HL-22844-01 (SGY8) LEVITSKY, SIDNEY, UNIVERSITY OF ILLINOIS, POST OFFICE BOX 6998, CHICAGO, ILL. Phrenic nerve pacing--Noninvasive diaphragm analysis (human, dogs).

R01HL-22845-01 (PHY) LITTEN, RAYE Z, III, UNIVERSITY OF VERMONT, COLLEGE OF MEDICINE, BURLINGTON, VT. Response of cardiac myosin to hypertrophic stress (rabbits).

R01HL-22847-01 (NTN) INSULL, WILLIAM, JR, METHODIST HOSPITAL, 6516 BERTNER BLVD, HOUSTON, TEX. Test for adherence to diets rich in linoleic acid.

R01HL-22852-01 (SGY8) BARNES, ROBERT W, MEDICAL COLLEGE OF VIRGINIA, BOS 221 - MCV STATION, RICHMOND, VA. Diagnostic techniques in venous thromboembolism (human).

R01HL-22854-01 (SGY8) BUNAG, RUBEN D, UNIVERSITY OF KANSAS, 39TH ST & RAINBOW BLVD, KANSAS CITY, KANS. Non-invasive blood pressure measurement (rats).

R01HL-22859-01 (HED) PENNEY, DAVID G, WAYNE STATE UNIVERSITY, DEPARTMENT OF PHYSIOLOGY, DETROIT, MICH. Effect of carbon monoxide on the developing heart (rats).

R01HL-22862-01 (CVA) RUSKIN, JEREMY N, MASSACHUSETTS GENERAL HOSPITAL, FRUIT STREET, BOSTON, MASS. CNS-mediated effects of antiarrhythmic drugs (dogs).

R01HL-22868-01 (NLS) LOKHANOWALA, MUSTAFA F, UNIVERSITY OF HOUSTON, 4800 CALHOUN BLVD, HOUSTON, TEX. Presynaptic regulatory mechanisms in hypertension (rats, dogs).

R01HL-22873-01 (END) HOLL, JAMES E, UNIVERSITY OF GEORGIA, DEPARTMENT OF PHARMACOLOGY, ATHENS, GA. Adrenoceptor interconversion and hormone homeostasis.

R01HL-22875-01 (TOX) MARKLAND, FRANCIS S, JR, UNIV OF SOUTHERN CALIFORNIA, 1720 ZONAL AVENUE, LOS ANGELES, CALIF. Crotalase--Chemistry, physiology, clinical potential (rats, rabbits).

R23HL-22882-01 (PHRA) BRATER, DONALD C, UNIVERSITY OF TEXAS, 5323 HARRY HINES BOULEVARD, DALLAS, TEX. Modulation by disease of effect of furosemide in man.

R01HL-22883-01 (PTHA) ROSENBAUM, ROBERT M, ALBERT EINSTEIN COLLEGE OF MED, 1300 MORRIS PARK AVENUE, BRONX, N Y. Lung epithelial cell interactions in vitro.

R01HL-22888-01 (SGY8) ANDERSON, JAMES M, CASE WESTERN RESERVE UNIV, OLIN BUILDING, ROOM 702, CLEVELAND, OHIO. Prosthetic valve endocarditis--Etiology and therapy (dogs).

R01HL-22893-01 (SGY8) RUTHERFORD, ROBERT B, UNIVERSITY OF COLORADO, 4200 EAST NINTH AVE, BOX C-312, DENVER, COLO. Evaluating arterial disease by velocity-wave analysis (dogs, human).

R01HL-22894-01 (SGY8) SPOTNITZ, HENRY M, COLUMBIA UNIVERSITY, DEPARTMENT OF SURGERY, NEW YORK, N Y. Two dimensional ultrasound and cardiac surgery (human, dogs).

R23HL-22895-01 (PTHA) LOKE, JACOB S, YALE UNIVERSITY, 155 WHITNEY AVENUE, NEW HAVEN, CONN 06511. Smoke inhalation--Biochemical and cellular responses (rabbits, bacteria).

R01HL-22896-01 (BIO) RYAN, JAMES W, UNIVERSITY OF MIAMI, SCHOOL OF MEDICINE, MIAMI, FLA. Immediate metabolic fates of kinins and angiotensins (rat, rabbit, guinea pig).

R01HL-22910-01 (CV8) YOUNES, MAGDY K, JOHN SEALY HOSPITAL, UNIVERSITY OF TEXAS MED BRANCH, GALVESTON, TEX. Control of breathing pattern in health and disease (human, animals).

R01HL-22911-01 (CVB) GEE, MARLYS H, JEFFERSON MEDICAL COLLEGE, 1020 LOCUST STREET, PHIALDELPHIA, PA. Mechanism of clearance of lung edema fluid (dogs).

R01HL-22917-01 (CV8) NELLIS, STEPHEN H, MILTON S HERSHEY MEDICAL CTR, DEPARTMENT OF MEDICINE, HERSHEY, PA. Microvascular pressures in the intact beating heart (rabbits).

R23HL-22920-01 (CVA) LORING, STEPHEN H, HARVARD UNIVERSITY, 665 HUNTINGTON AVENUE, BOSTON, MASS. Dynamic airway behavior (dogs).

R01HL-22924-01 (CVA) BOUCHER, RICHARD C, UNIVERSITY OF NORTH CAROLINA, 724 CLINICAL SCIS BLDG 229 H, CHAPEL HILL, N C. The airway mucosal barrier (guinea pigs).

R01HL-22928-01 (CV8) MAGNO, MICHAEL, UNIVERSITY OF PENNSYLVANIA, 3600 SPRUCE STREET, PHILADELPHIA, PA. Systematic study of bronchial circulation (sheep).

R23HL-22932-01 (CV8) METCALF, JOHN F, MEDICAL UNIV OF SOUTH CAROLINA, 171 ASHLEY AVENUE, CHARLESTON, S C. Effect of carbon dioxide on local gas exchange (dogs).

R23HL-22933-01 (CV8) ROSELLI, ROBERT J, VANDERBILT UNIVERSITY, ROOM B-3211, NASHVILLE, TENN. Transvascular fluid and protein exchange in the lung (sheep).

R18HL-22934-01 (EDC) GREEN, LAWRENCE W, JOHNS HOPKINS UNIVERSITY, 615 NORTH WOLFE STREET, BALTIMORE, MD. Behavorial approaches to adolescent hypertension.

R01HL-22939-01 (CVB) SPRAGG, JOCELYN, SEELEY G MUDD BUILDING RM 625, 250 LONGWOOD AVENUE, BOSTON, MASS. Human kinin and fibrinolytic systems and renal disease (human).

R01HL-22946-01 (CVB) MORETTI, RICHARD L, CHILDREN'S HOSPITAL, 51ST & GROVE STREETS, OAKLAND, CALIF. Prostaglandins, platelet aggregation and vasoactivity (human, rats, rabbits).

R23HL-22947-01 (SSS) MC ALISTER, ALFRED L, HARVARD SCHOOL OF PUBLIC HLTH, 677 HUNTINGTON AVENUE, BOSTON, MASS. Experimental systems to improve youth behavior (smoking prevention).

R01HL-22951-01 (HEM) STEINER, MANFRED, MEMORIAL HOSPITAL, PROSPECT STREET, PAWTUCKET, R I. Studies on the affect of vitamin E on platelets (human, rats).

R01HL-22952-01 (CVB) GOULD, KENNETH L, SEATTLE VA HOSPITAL, CARDIOLOGY SERVICE, SEATTLE, WASH. Validation of quantitative coronary arteriography (dogs).

R01HL-22955-01 (HEM) SILVERBERG, SIDONIE A, S U N Y - AT STONY BROOK, DIVISION OF HEMATOLOGY, STONY BROOK, N Y. Kinetics of prothrombin activation.

R23HL-22959-01 (CVB) KIDD, PARRIS M, UNIVERSITY OF CALIFORNIA, DEPARTMENT OF ANATOMY, SAN FRANCISCO, CALIF. Heart development in inherited cardiomyopathy (hamsters).

R01HL-22963-01 (SSS) HUTCHINS, GROVER M, JOHNS HOPKINS HOSPITAL, DEPARTMENT OF PATHOLOGY, BALTIMORE, MD. Symbolic logic analysis of congenital heart disease (human).

R01HL-22967-01 (MET) BROWN, W VIRGIL, MT SINAI SCHOOL OF MEDICINE, 5TH AVE & 100TH STREET, NEW YORK, N Y. Structure and function of heparin releasable lipases (swine, human).

R23HL-22972-01 (CVB) LOMBARD, JULIAN H, MEDICAL COLLEGE OF WISCONSIN, DEPARTMENT OF PHYSIOLOGY, MILWAUKEE, WISC. Microcirculatory function in hypotension (rats, hamsters).

R23HL-22975-01 (CVB) MOHRMAN, DAVID E, UNIVERSITY OF MINNESOTA, PHYSIOLOGY DEPARTMENT, DULUTH, MINN. Dynamics of autoregulation of muscle blood flow (dogs).

R01HL-22976-01 (CVB) MITTMAN, CHARLES, CITY OF HOPE MEDICAL CENTER, 1500 EAST DUARTE ROAD, DUARTE, CALIF. Nonuniform ventilation and diffusing capacity (human).

R01HL-22977-01 (CVB) COHN, JAY N, UNIVERSITY OF MINNESOTA, BOX 488, MINNEAPOLIS, MINN. Role of vasoconstrictor mechanisms in heart failure (human, dogs).

R01HL-22980-01 (HEM) NEMERSON, YALE R, MOUNT SINAI MEDICAL SCHOOL, 100TH STREET & FIFTH AVENUE, NEW YORK, N Y. Kinetic and mechanistic studies of blood coagulation (human, cattle).

R01HL-22981-17 (MBC) WEBER, MORTON M, ST LOUIS UNIVERSITY, 1402 SOUTH GRAND BOULEVARD, ST LOUIS, MO. Membrane-associated functions in microorganisms (bacteria, protozoa).

R01HL-22982-01 (EDC) MOSS, ARTHUR J, UNIVERSITY OF ROCHESTER, 601 ELMWOOD AVENUE, ROCHESTER, N Y. Multicenter postcoronary risk stratification program (human).

R01HL-22983-01 (PC) JENG, INGMING, WASHINGTON UNIVERSITY, BOX 8046, 4566 SCOTT AVENUE, ST LOUIS, MO. Studies on the catabolism of plasma lipoproteins (rats).

R23HL-22984-01 (BIO) SINGH, DIWAN, UNIVERSITY OF IOWA, DEPT OF ANATOMY, IOWA CITY, IOWA. Cyclic AMP dependent protein kinases in hypertension (rat).

R01HL-22985-01 (BBCA) SAIDE, JUDITH D, BOSTON UNIVERSITY, 80 EAST CONCORD STREET, BOSTON, MASS. Properties and assembly of Z-disk proteins (human, other species).

R01HL-22990-01 (CVB) DOUGLAS, JANICE G, CASE WESTERN RESERVE UNIV, 2065 ADELBERT ROAD, CLEVELAND, OHIO. Angiotensin II receptors--Mechanisms of regulation (rats).

R01HL-22996-01 (TOX) KRESS, LAWRENCE F, ROSEWELL PARK MEMORIAL INST, 666 ELM STREET, BUFFALO, N Y. Venom proteases--Action on plasma protease inhibitors (human).

R01HL-23003-01 (BBCB) BROCKMAN, HOWARD L, JR, UNIVERSITY OF MINNESOTA, 801 16TH AVENUE, N E, AUSTIN, MINN. Bulk-surface distribution of cholesteryl esters.

R01HL-23010-01 (CBY) GARTNER, THEODORE K, MEMPHIS STATE UNIVERSITY, BIOLOGY DEPARTMENT, MEMPHIS, TENN. Control and mechanism of platelet aggregation (human).

R01HL-23013-01 (CBY) FERNANDEZ, SALVADOR M, UNIVERSITY OF CONNECTICUT, PHYSIOLOGY DEPARTMENT, FARMINGTON, CONN. Smooth muscle development in vitro (chick embryo).

R01HL-23015-01 (CVA) WEIL, MAX H, USC SCHOOL OF MEDICINE, 2025 ZONAL AVENUE, LOS ANGELES, CALIF. Mechanisms of hypo-oncotic pulmonary edema (human, dogs).

R01HL-23025-01 (CVB) DOWELL, RUSSELL T, UNIVERSITY OF OKLAHOMA, POST OFFICE BOX 26901, OKLAHOMA CITY, OKLA. Adaptive heart growth in neonates and adults (rats).

R01HL-23071-01 (SRC) MOORE, E NEIL, UNIVERSITY OF PENNSYLVANIA, 3800 SPRUCE STREET, PHILADELPHIA, PA. Electrophysiology of lethal arrhythmias (dog, human).

R13HL-23072-01 (NSS) GERGELY, JOHN, BOSTON BIOMEDICAL RES INST, 20 STANIFORD STREET, BOSTON, MASS. Gordon Research Conference--Cardiac and skeletal muscle (New Hampshire).

R01HL-23078-01 (SRC) RUBERMAN, WILLIAM, HLTH INSURANCE PLAN, 625 MADISON AVENUE, NEW YORK, N Y. Psychosocial stress and sudden coronary death (human).

R01HL-23108-01 (HEM) VICTORIA, EDWARD J, JR, UNIV OF CALIFORNIA, SAN DIEGO, T-D03, LA JOLLA, CALIF. Membrane biochemistry of RH antigens (human).

R01HL-23114-01 (SGYA) PRANCAN, ARTHUR V, ST LUKE'S MEDICAL CENTER, DEPT OF PHARMACOLOGY, CHICAGO, ILL 60612. Control of platelet aggregation in shock (dogs, rabbits).

R01HL-23115-01 (NSS) EDELMAN, ISIDORE S, COLUMBIA UNIVERSITY, DEPT OF BIOCHEMISTRY, NEW YORK, N Y. Regulation of active sodium transport (frogs, rats).

R01HL-23120-01 (BMT) BALDWIN, JACK E, UNIVERSITY OF OXFORD, SOUTH PARKS ROAD, OXFORD OX1 3DY, ENGLAND. Chelating agents as blood substitutes.

R01HL-23128-01 (PHY) DONALDSON, SUE K, RUSH-PRESBY-ST LUKE'S MED CTR, 1753 W CONGRESS PARKWAY, CHICAGO, ILL. Cardiac contractility--Ischemia and hypoxia (rabbits, rats).

R01HL-23138-01 (SRC) JENNINGS, ROBERT B, DUKE UNIVERSITY, BOX 3712 PATHOLOGY, DURHAM, N C. Myocardial ischemia (dogs, rats, chick embryo).

R01HL-23140-01 (SRC) BRAUNWALD, EUGENE, PETER BENT BRIGHAM HOSPITAL, DEPT OF MEDICINE, BOSTON, MASS. Determinants of irreversible ischemic injury in heart (dog, rat).

R01HL-23142-01 (SRC) WEGLICKI, WILLIAM B, VIRGINIA COMMONWEALTH UNIV 1200 EAST BROAD STREET, RICHMOND, VA. Mechanisms of membrane injury in myocardial ischemia (dog).

R01HL-23153-01 (SRC) SORDAHL, LOUIS A, UNIVERSITY OF TEXAS, DIVISION OF BIOCHEMISTRY, GALVESTON, TEX. Mechanisms of altered CA20 transport in ischemic heart (dog, rabbit).

R01HL-23159-01 (NTN) CLARKE, STEVEN D, 122 VIVIAN HALL, 2121 FYFFE ROAD, COLUMBUS, OHIO. Regulation of lipogenesis by polyunsaturated fats (rats, chicks).

R01HL-23161-01 (SRC) ENTMAN, MARK L, BAYLOR COLLEGE OF MEDICINE, DEPT OF MEDICINE, HOUSTON, TEX. Biology of myocardial ischemia.

R01HL-23161-01 0001 (SRC) WOOD, JEANIE M. Biology of myocardial ischemia--Mitochondrial lipid metabolism and cardiac ischemia (rat, dog).

R01HL-23161-01 0002 (SRC) PITTS, BARRY J R. Biology of myocardial ischemia--Palmitylcarnitine inhibition of ion pumps in myocardial ischemia (dog, sheep).

R01HL-23161-01 0003 (SRC) ENTMAN, MARK L. Biology of myocardial ischemia--Phosphorylase coupling to myocardial sarcoplasmic reticulum (dog).

R01HL-23161-01 0004 (SRC) GOLDSTEIN, MARGARET A. Biology of myocardial ischemia--Structure of myofibrils and membranes in early ischemia (dogs, rabbit, rodents).

R01HL-23161-01 0005 (SRC) ROSSEN, ROGER D. Biology of myocardial ischemia--Localization of complement in myocardial infarction (dog).

R01HL-23166-01 (SRC) BRIERLEY, GERALD P, OHIO STATE UNIVERSITY, PHYSIOLOGICAL CHEMISTRY DEPT, COLUMBUS, OHIO. Pathology of mitochondria in ischemic myocardium (rats, cattle).

R01HL-23171-01 (SRC) KIRK, EDWARD S, ALBERT EINSTEIN COLL OF MED, 1300 MORRIS PARK AVENUE, BRONX, N Y. Coronary collateral circulation in myocardial ischemia (dog, pig, rat, human).

R01HL-23183-01 (PHY) HALL, JAMES E, UNIVERSITY OF CALIFORNIA, PHYSIOLOGY DEPARTMENT, IRVINE, CALIF. Voltage dependent conductance in membranes.

R01HL-23194-02 (TEC) SIEVOGEL, ROGER M, FELS RESEARCH INSTITUTE, WRIGHT STATE UNIV SCH OF MED, YELLOW SPRINGS, OHIO. Genetics of hypertension and associated variables (human).

R01HL-23200-01 (HEM) OHNISHI, TSUYOSHI, HAHNEMANN MED COLL & HOSPITAL, 230 NORTH BROAD STREET, PHILADELPHIA, PA. Isolation of CA binding proteins from erythrocytes (human).

R01HL-23201-01 (HLBA) DUSTAN, HARRIET P, UNIVERSITY OF ALABAMA, UNIVERSITY STATION, BIRMINGHAM, ALA. Mechanisms of hypertension (human, rats).

R01HL-23205-01 (SRC) SIEGMAN, MARION J, JEFFERSON MEDICAL COLLEGE, 1025 WALNUT STREET, PHILADELPHIA, PA. Contraction of pulmonary vascular smooth muscle (cat).

R01HL-23206-01 (AFY) STONE, HUBERT L, UNIVERSITY OF OKLAHOMA, POST OFFICE BOX 26901, OKLAHOMA CITY, OKLA. Repetitive exercise and cardiac enlargement (dogs).

R01HL-23209-01 (SRC) BUCKNER, CARL K, UNIVERSITY OF WISCONSIN, 425 N CHARTER STREET, MADISON, WIS. Autonomic receptors of the pulmonary vasculature (mammals).

R01HL-23210-01 (SRC) BERGOFSKY, EDWARD H, S U N Y - AT STONY BROOK, DEPT OF MED/PULMONARY DIS DIV , STONY BROOK, N Y. Biology of normal and hypertrophied pulmonary vessels (cat, human).

R01HL-23211-01 (SRC) WEIR, EDWARD K, VETERANS ADMINISTRATION HOSP, 54TH ST AND 48TH AVE SO, MINNEAPOLIS, MINN. Active normoxic pulmonary vasodilatation (rat, dog, sheep).

R01HL-23224-01 (SRC) SOBIN, SIDNEY S, CARDIOVASCULAR RESEARCH LAB, BOX 1800 - 1200 NORTH STATE ST, LOS ANGELES, CALIF. Hypoxia and pulmonary vascular smooth muscle (rat, cat).

R01HL-23232-01 (SRC) REID, LYNNE M, CHILDREN'S HOSPITAL, 300 LONGWOOD AVENUE, BOSTON, MASS. Effect of hypoxia on PVSM and its precursor cells.

R01HL-23233-01 (SRC) JOHNSON, PETER, OHIO UNIVERSITY, CHEMISTRY DEPARTMENT, ATHENS, OHIO. Pulmonary artery intermediate filament structure (cattle).

R01HL-23239-01 (SRC) PIEPER, HEINZ P, OHIO STATE UNIVERSITY, 333 WEST 10TH AVENUE, COLUMBUS, OHIO. Functional characteristics of pulmonary vascular smooth muscle (dogs).

R01HL-23240-01 (SRC) PAUL, RICHARD J, UNIVERSITY OF CINCINNATI, 231 BETHESDA AVENUE, CINCINNATI, OHIO. Pulmonary vascular muscle metabolism and contractility (rats, cattle).

R01HL-23245-01 (SRC) GILLIS, CHARLES N, YALE UNIVERSITY, 333 CEDAR STREET, HEW HAVEN, CONN. Adrenergic receptors in pulmonary vascular muscle (human, animal).

R01HL-23249-01 (SRC) SEIDEL, JOHN C, BOSTON BIOMEDICAL RES INST, 20 STANIFORD STREET, BOSTON, MASS. Actin-myosin interaction in pulmonary smooth muscle (cattle).

R01HL-23267-01 (BBCB) LITT, MITCHELL, UNIVERSITY OF PENNSYLVANIA, 383C TOWNE BUILDING/03, PHILADELPHIA, PA. Rheology and kinetics of hemoglobin S gelation (human).

P60HL-23282-01 (SRC) SATCHER, DAVID, C R DREW POSTGRAD MED SCH, 1621 EAST 12DTH STREET, LOS ANGELES, CALIF. Comprehensive hospital/community sickle cell center.

P60HL-23282-01 0001 (SRC) DAVIDSON, EZRA C. Comprehensive hospital/community sickle cell center--Fetoscopy for intrauterine diagnosis of hemoglobinopathy (human, monkeys).

P60HL-23282-01 0002 (SRC) EDMONDS, S RANDOLPH. Comprehensive hospital/community sickle cell center--Clinical evaluation of alternate pathaway of compliment activation.

P60HL-23282-01 0003 (SRC) KELLY, A PAUL. Comprehensive hospital/community sickle cell center--Treatment of sickle cell ulcers with physical therapy and vitamin E (human).

P60HL-23282-01 0004 (SRC) FIALA, MILAN. Comprehensive hospital/community sickle cell center--Bacterial, viral and mycoplasmal infections and sickle cell disease complications.

P60HL-23282-01 9001 (SRC) SATCHER, DAVID. Comprehensive hospital/community sickle cell center--Core--Institutionalization of education, screening and counseling.

P60HL-232B2-01 9002 (SRC) BRANCH, GERALDINE. Comprehensive hospital/community sickle cell center--Core--Model sickle cell service for neighborhood health centers.

R01HL-23312-01 (CVB) OVERBECK, HENRY W, UNIVERSITY DF ALABAMA, CARDIDVASCULAR RES & TRNG CTR , BIRMINGHAM, ALA. Hemodynamics and vasoactivity in renal hypertension (human, dogs).

R01HL-23392-01 (BBCA) HAYNES, DUNCAN H, UNIVERSITY DF MIAMI, DEPARTMENT DF PHARMACDLDGY, MIAMI, FLA. Membrane binding and transport of calcium and potassium ionophores.

R01HL-23542-01 (SRC) FRANZBLAU, CARL, BDSTDN UNIVERSITY, 8D EAST CDNCDRD STREET, BDSTDN, MASS. Pulmonary vascular smooth muscle cell dynamics (rat, rabbit).

R01HL-235B6-06 (ALY) LICHTENSTEIN, LAWRENCE M, GDOD SAMARITAN HDSPITAL, 5601 LDCH RAVEN BOULEVARD, BALTIMORE, MO. Pharmacologic control of hypersensitivity phenomena (human).

R01HL-235B7-01 (PBC) REODY, YERRAOHODOI S, UNIVERSITY OF TEXAS MED SCH, 6431 FANNIN; MSMB 1222, HOUSTDN, TEX. Phosphorylation of myocardial protein (guinea pigs).

R01HL-235BB-01 (EVR) HIGHTOWER, LAWRENCE E, UNIVERSITY DF CDNNECTICUT, MICRDBIOLOGY SECTIDN, BDX U-44, STDRRS, CONN. NDV infection--Analysis at the subcellular level (chickens).

R01HL-23593-01 (CTY) LAGUNOFF, DAVIO, UNIVERSITY OF WASHINGTDN, DEPARTMENT DF PATHOLDGY, SM-30, SEATTLE, WASH. Mast cell granules--Structure and secretion (rats).

R01HL-2359S-01 (PTHA) KLEINERMAN, JEROME I, MOUNT SINAI SCHOOL, 1 GUSTAVE L LEVY PLACE, NEW YDRK, N Y. Experimental emphysema--Depression of protease inhibitors (rats, hamsters).

R01HL-2359B-01 (NTN) DUPONT, JACQUELINE, IDWA STATE UNIVERSITY, DEPT DF FDOD AND NUTRITION, AMES, IOWA. Dietary fat, cholesterol and bile acid turnover (rats).

R01HL-23599-01 (CVB) SCHERLAG, BENJAMIN J, VETERANS ADMINSTRATIDN HDSP, 921 N E 13TH, DKLAHDMA CITY, DKLA. Mechanisms of ischemic rhythm disorders (dogs).

R01HL-23600-01 (CVB) OVERBECK, HENRY W, UNIVERSITY OF ALABAMA, UNIVERSITY STATIDN, BIRMINGHAM, ALA. Ions, water, and hypertension (human, dogs, rats).

R01HL-23601-01 (PHY) FARBER, JAY P, UNIVERSITY OF DKLAHOMA, P O BOX 269D1, OKLAHOMA CITY, OKLA. Early hypoxia and development of respiratory control.

R01HL-23602-01 (CVB) FERRIS, THOMAS F, UNIVERSITY OF MINNESOTA, 420 DELAWARE STREET, S E, MINNEAPOLIS, MINN. Physiology of renin, aldosterone and prostaglandin (human, rats, dogs).

R01HL-23603-01 (PTHA) WIENER, JOSEPH, WAYNE STATE UNIVERSITY, 540 EAST CANFIELD, DETROIT, MICH. Morphogenesis of hypertensive vascular disease (rats).

R01HL-23604-01 (CVA) MC CUSKEY, ROBERT S, WEST VIRGINIA UNIVERSITY, DEPARTMENT OF ANATOMY, MORGANTOWN, W VA. Hepatic microvascular regulatory mechanisms (rat).

R01HL-23614-02 (PHY) TWAROG, BETTY M, STATE UNIVERSITY OF NEW YORK, DEPARTMENT OF ANATOMICAL SCIS , STONY BROOK, N Y. Pharmacology of relaxation in smooth muscle (mollusks).

R01HL-2361S-01 (BBCB) HARTSHORNE, OAVIO J, UNIVERSITY OF ARIZONA, 309 AGRICULTURAL SCIENCES BLDG, TUCSON, ARIZ. Biochemistry of contractile proteins (chicken, rabbit).

R01HL-2361B-01 (SGYA) LIU, MAW-SHUNG, BOWMAN GRAY SCHOOL, DEPT OF PHYSIOLOGY & PHARMA, WINSTON-SALEM, N C. Substrate metabolism in isolated myocytes in shock (dogs, rats, guinea pigs).

R01HL-23624-01 (CVA) GETTES, LEONARD S, UNIVERSITY OF NORTH CAROLINA, 338 CLINICAL SCIS BLDG 229H, CHAPEL HILL, N C. Effect of drugs on ischemic cardiac cells (dogs, guinea pigs, pigs).

R01HL-23626-01 (CVA) CUTILLETTA, ANTHONY F, JOHN HOPKINS HOSPITAL, 60D NORTH WOLFE STREET, BALTIMORE, MD. A study of the regulation of myocardial hypertrophy (rats).

R01HL-23631-01 (IMS) BLUMENTHAL, MALCOLM N, UNIVERSITY OF MINNESOTA, BOX 434, MINNEAPOLIS, MINN. Immunogenetic factors in allergic respiratory diseases (human).

R01HL-23653-01 (CVA) OIANA, JOHN N, LOUISIANA STATE UNIVERSITY, & 3 BOX 33932, SHREVEPORT, LO. Protection of the ischemic myocardium (dogs).

R01HL-23654-01 (IMS) SCHANFIELO, MOSES S, AMERICAN NATIONAL RED CROSS, 173D E ST N W, WASHINGTON, O C. Selected topics on blood transfusion (rabbits, human).

R01HL-23726-01 (PHRA) SHAND, DAVIO G, DUKE UNIVERSITY, BDX 3813, DURHAM, N C. Treatment of ventricular arrhythmias with propranolol (human).

R01HL-23736-04 (HEM) FUHR, JOSEPH E, UNIVERSITY OF TENNESSEE, 1924 ALCOA HIGHWAY, KNOXVILLE, TENN. Sickle cell anemia and hemoglobin synthesis (monkeys).

R01HL-23B99-01 (SGYB) VROMAN, LEO, DOWNSTATE MEDICAL CENTER, 450 CLARKSON AVENUE, BROOKLYN, N Y. Flow and flexing at blood/biomaterial interfaces.

R01HL-23900-01 (CVB) HOCHMUTH, ROBERT M, OUKE UNIVERSITY, BIOMEDICAL ENGINEERING DEPT, DURHAM, N C. Mechanical measurement of cell membrane viscosity (human).

R01HL-23945-06 (MET) SABESIN, SEYMOUR M, UNIVERSITY DF TENNESSEE, 951 COURT AVE, RDOM 335M, MEMPHIS, TENN Pathologic effects on cells of modified lipoproteins (rats, human).

R01HL-23969-01 (CVA) OOUGLAS, WILLIAM H, TUFTS UNIVERSITY, 136 HARRISON AVENUE, BDSTDN, MASS. Surfactant synthesis by type II cells in vitro (rats)

R01HL-23970-01 (SRC) SINGH, BRAMAH N, WADSWORTH VA HOSPITAL, SAWTELLE & WILSHIRE BOULEVARDS, LOS ANGELES, CALIF Mechanisms and control of sudden cardiac death (human, dog).

R01HL-239B0-01 (PHRA) BERMAN, WILLIAM, JR, UNIVERSITY OF NEW MEXICO, DEPARTMENT OF PEDIATRICS, ALBUOUERDUE, N MEX. Effects of digoxin therapy in newborn and adult sheep

R01HL-239B1-01 (PTHA) RYAN, STEPHEN F, ST LUKE'S INSTITUTE FOR HEALTH, AMSTERDAM AVENUE & 114TH ST, NEW YORK, N Y Acute alveolar injury (dogs).

R01HL-23982-01 (CVA) CASE, ROBERT B, ST LUKE'S HOSPITAL, AMSTERDAM AVENUE & 114TH ST, NEW YORK, N Y. Control of coronary flow by carbon dioxide tension (dogs).

R01HL-239B3-01 (RAD) PIERSON, RICHARD N, JR, ST LUKE'S HOSPITAL, AMSTEROAM AVENUE & 114TH ST, NEW YORK, N Y. Quantitative radiocardiography (human, dogs).

R01HL-239B5-01 (CVA) MINH, VU-DINH, UNIVERSITY OF CALIFDRNIA, CALIFDRNIA CDLLEGE OF MEDICINE, IRVINE, CALIF. Role of the diaphragm in regional lung mechanics (dogs).

R01HL-23990-01 (PHRA) STULL, JAMES T, UNIVERSITY DF TEXAS, 5323 HARRY HINES BLVD, DALLAS, TEX. Role of phosphoprotein in cardiac inotropic responses.

R01HL-23994-01 (PBC) BHAM, ASHOK K, WAYNE STATE UNIVERSITY, 540 E CANFIELD AVENUE, DETRDIT, MI. Biochemical properties of human cardiac myosin.

R01HL-24021-02 (HEM) SHAEFFER, JOSEPH R, CENTER FOR BLDDD RESEARCH, 80D HUNTINGTON AVENUE, BDSTDN, MASS. Erythocyte membrane sulfhydrls and Rh activity (human).

R01HL-2404B-01 (SSS) CHAN, LEE-NIEN L, UNIVERSITY OF TEXAS, DEPT DF HUMAN BIDLDGICAL, GALVESTDN, TEX. Regulation of hemoglobin synthesis in chick embryos.

N01HR-32900-09 (HCRG) BURST, SANIA, PDRTLAND, OREGDN. Pilot study to standardize the measurement of 'closing volume' (human).

N01HR-32902-07 (HCRG) MACKLEN, P T, MONTREAL, CANADA. Pilot study to standardize the measurement of closing volume (human).

N01HR-32903-11 (HCRG) CHERNIACK, R M, MANITOBA, CANADA. Pilot study to standardize the measurement of 'closing volume' (human).

N01HR-52957-02 (HCRG) BOAT, THOMAS F, CLEVELAND, DHIO. Composition of respiratory mucus (human, swine).

N01HR-62901-04 (HCRG) FREOBERG, JEFFREY J, CAMBRIDGE, MASSACHUSETTS. Measure pulmonary function in infants and children (also dogs, rabbits).

N01HR-62910-02 (HCRG) SOBIN, SIDNEY S, LDS ANGELES, CALIFORNIA. Fibroprotein networks of pulmonary alveolar wall (human).

N01HR-62920-02 (HCRG) REEVES, JOHN T, OENVER, COLORADO. Noninvasive diagnosis of pulmonary hypertension (dog, human).

N01HR-62930-03 (HCRG) HAY, ROBERT J, RDCKVILLE, MARYLAND. Lung cell resource facility.

N01HR-62931-02 (HCRG) HISS, ROLANO, ANN ARBOR, MICHIGAN. Development and evaluation of continuing education in pulmonary medicine.

N01HR-62934-02 (HCRG) HAROY, JANET B, BALTIMORE, MARYLAND. Evaluate continuing education in pulmonary medicine.

N01HR-62935-02 (HCRG) TURNER-WARWICK, MARGARET, LONDON, ENGLAND. Histocompatibility antigens--Evolution of respiratory hypersensitivity (human).

N01HR-62942-04 (HCRG) PETTY, THOMAS L, DENVER, COLORAOO. Nocturnal oxygen therapy in chronic hypoxic lung disease (humam).

N01HR-62943-05 (HCRG) ANTHONISEN, NICHOLAS R, WINNIPEG, CANADA. Nocturnal oxygen therapy in chronic hypoxic lung disease (human).

N01HR-62944-04 (HCRG) KVALE, PAUL A, OETROIT, MICHIGAN. Nocturnal oxygen therapy in chronic hypoxic lung disease (human).

N01HR-62945-04 (HCRG) CUGELL, OAVID W, EVANSTON, ILLINOIS. Nocturnal oxygen therapy in chronic hypoxic lung disease (human).

N01HR-62946-04 (HCRG) TIMMS, RICHARD M, LA JOLLA, CALIFORNIA. Nocturnal oxygen therapy in chronic hypoxic lung disease (human).

N01HR-62947-04 (HCRG) BOYLEN, C THOMAS, LOS ANGELES, CALIFORNIA. Nocturnal oxygen therapy in chronic hypoxic lung disease (human).

N01HR-6294B-04 (HCRG) POOLE, KENNETH W, RESEARCH TRIANGLE PARK, NORTH CAROLINA. Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome.

N01HR-62949-05 (HCRG) RIGATTO, HENRIQUE, WINNIPEG, CANADA. Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome.

N01HR-62950-04 (HCRG) OEPP, RICHARO, EVANSTON, ILLINOIS. Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome.

N01HR-62951-04 (HCRG) BAUER, CHARLES, MIAMI, FLORIOA. Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome.

N01HR-62952-05 (HCRG) ZACHMAN, RICHARD O, MADISON, WISCONSIN. Evaluate antenatal steroid therapy in neonatal respiratory distress syndrome.

N01HR-72901-02 (HCRG) KRUEGER, DEAN E, WASHINGTON, OISTRICT OF COLUMBIA. Study of intermittent positive pressure breathing (data center).

N01HR-72902-04 (HCRG) ANTHONISEN, NICHOLAS R, WINNIPEG, CANADA. Study of intermittent positive pressure breathing.

N01HR-72903-05 (HCRG) LEVIN, DAVIO C, OKLAHOMA CITY, OKLAHOMA. Study of intermittent positive pressure breathing.

N01HR-72904-03 (HCRG) HOOGKIN, JOHN E, LOMA LINDA, CALIFORNIA. Study of intermittent positive pressure breathing.

N01HR-72905-03 (HCRG) STEVENS, PAUL M, HOUSTON, TEXAS. Study of intermittent positive pressure breathing.

N01HR-72906-03 (HCRG) HOPEWELL, PHILLIP C, SAN FRANCISCO, CALIFORNIA. Study of intermittent positive pressure breathing.

N01HR-72920-01 (HCRG) OEARBORN, OORR G, CLEVELANO, OHIO. Identify and quantify cystic fibrosis factors (human).

N01HR-72921-01 (HCRG) NELSON, THOMAS E, HOUSTON, TEXAS. Cystic fibrosis factor identification and quantification (human).

N01HR-72922-01 (HCRG) BOWMAN, BARBARA H, GALVESTON, TEXAS. Cystic fribrosis factor identication and quantification (human).

N01HR-72923-01 (HCRG) RENNERT, OWEN M, OKLAHOMA CITY, OKLAHOMA. Cystic fibrosis factor identification and quantification (human).

N01HR-72972-01 (HCRG) CREER, THOMAS, OENVER, COLORADO. Self-management for asthmatic children.

N01HR-72973-01 (HCRG) FELDMAN, CHARLES H, NEW YORK, NEW YORK. Health education and attitudes of family toward asthmatic children.

N01HR-72974-01 (HCRG) SHANNER, WILLIAM M, WASHINGTON, OISTRICT OF COLUMBIA. Self-management systems for asthmatic children.

N01HV-12017-15 (HCRG) KRONICK, PAUL L, PHILADELPHIA, PENNSYLVANIA Fabrication of grafted hydrogel coatings for plastic heart assist devices.

N01HV-12054-14 (HCRG) BURKEL, WILLIAM E, ANN ARBOR, MICHIGAN Development of intimal linings (human, cattle).

N01HV-12060-1B (HCRG) MANSFIELD, PETER B, SEATTLE, WASHINGTON. Tissue cultured endothelium for vascular prosthetic devices (human, animals).

N01HV-12065-16 (HCRG) POIRIER, VICTOR C, WALTHAM, MASSACHUSETTS. Fabrication of implantable artificial heart devices (animals).

N01HV-12156-10 (HCRG) INSULL, WILLIAM, HOUSTON, TEXAS. Lipid research clinic.

N01HV-12157-14 (HCRG) BIERMAN, EDWIN L, SEATTLE, WASHINGTON. Lipid research clinic (human).

N01HV-12158-10 (HCRG) KWITEROVICH, PETER O, BALTIMORE, MARYLAND Establishment of a lipid research clinic

N01HV-12159-09 (HCRG) SHEFFIELD, L THOMAS, BIRMINGHAM, ALABAMA Lipid research clinic

N01HV-12160-15 (HCRG) STEINBERG, DANIEL, LA JOLLA, CALIFORNIA Establishment of a lipid research clinic

N01HV-12434-11 (HCRG) HAMES, CURTIS G, CLAXTON, GEORGIA. Therapy for hypertension in the general population

N01HV-12435-15 (HCRG) CASTLE, CHARLES H, SALT LAKE CITY, UTAH Therapy for hypertension in the general population (human)

N01HV-12436-15 (HCRG) MAXWELL, MORTON H, LOS ANGELES, CALIFORNIA. Hypertension therapy in the general population (human).

N01HV-12440-14 (HCRG) OBERMAN, ALBERT, BIRMINGHAM, ALABAMA Therapy for hypertension in the general population (human).

N01HV-12442-14 (HCRG) HAWKINS, MORTON C, HOUSTON, TEXAS. Therapy for hypertension in the general population (human).

N01HV-22913-09 (HCRG) ABBOUD, FRANCOIS M, IOWA CITY, IOWA Lipid research clinic

N01HV-22914-08 (HCRG) KASHYAP, M L, CINCINNATI, OHIO. Establishment of a lipid research clinic.

N01HV-22915-11 (HCRG) FRANTZ, IVAN D, JR, MINNEAPOLIS, MINNESOTA. Establishment of lipid research clinic.

N01HV-22916-16 (HCRG) SCHONFELD, GUSTAV, ST LOUIS, MISSOURI. Establishment of a lipid research clinic.

N01HV-22917-11 (HCRG) LITTLE, ALICK, TORONTO, CANADA. Lipid research clinic (human).

N01HV-22931-14 (HCRG) BLAUFOX, MORTON D, BRONX, NEW YORK. Therapy for hypertension in general population.

N01HV-22932-09 (HCRG) BRADFORD, REAGAN H, OKLAHOMA CITY, OKLAHOMA. Establishment of a lipid research clinic.

N01HV-22937-07 (HCRG) BERMAN, REUBEN, MINNEAPOLIS, MINNESOTA. Therapy for hypertension in general population.

N01HV-22938-11 (HCRG) TUTTLE, ELBERT P, JR, ATLANTA, GEORGIA. Therapy for hypertension in general population.

N01HV-22939-12 (HCRG) JONES, JOHN W, EAST LANSING, MICHIGAN. Hypertension detection and follow-up program center.

N01HV-22945-11 (HCRG) BORHANI, NEMAT O, DAVIS, CALIFORNIA. Cooperative hypertension detection and follow-up study (human).

N01HV-22971-07 (HCRG) KJELSBERG, MARCUS, MINNEAPOLIS, MINNESOTA. Prevention of coronary heart disease (human).

N01HV-22976-07 (HCRG) BLACKBURN, HENRY W, MINNEAPOLIS, MINNESOTA. Multiple risk factor intervention trial, prevention of coronary heart disease.

N01HV-22977-08 (HCRG) BORHANI, NEMAT O, DAVIS, CALIFORNIA. Intervention trial for the prevention of coronary heart disease (human).

N01HV-22979-07 (HCRG) DALEN, JAMES E, CAMBRIDGE, MASSACHUSETTS. Intervention trial for the prevention of coronary heart disease (human).

N01HV-22980-06 (HCRG) SHERWIN, ROGER W, BALTIMORE, MARYLAND. Intervention trial for the prevention of coronary heart disease (human).

N01HV-22981-10 (HCRG) HULLEY, STEPHEN B, SAN FRANCISCO, CALIFORNIA. Intervention trial for the prevention of coronary heart disease (human).

N01HV-22982-07 (HCRG) ZIMMERMAN, HERBERT B, ST LOUIS, MISSOURI. Intervention trial for prevention of coronary heart disease (human).

N01HV-22983-07 (HCRG) WYNDER, ERNST L, NEW YORK, NEW YORK. Intervention trial for the prevention of coronary heart disease (human).

N01HV-32913-11 (HCRG) YASUDA, HIROTSUGU K, RESEARCH TRIANGLE PARK, NORTH CAROLINA. Study electrodeless glow discharge for modifying polymer surface.

N01HV-32917-08 (HCRG) NYILAS, EMERY, EVERETT, MASSACHUSETTS. Materials development and testing.

N01HV-32919-12 (HCRG) AISENBERG, SOL, SOUTHFILED, MICHIGAN. Material development and testing heparinization processes.

N01HV-32931-09 (HCRG) LA ROSA, JOHN C, WASHINGTON, DISTRICT OF COLUMBIA. Establishment of a lipid research clinic center.

N01HV-32933-07 (HCRG) MOLTENI, AGOSTINO, CHICAGO, ILLINOIS. Hypertension detection and follow-up program central laboratory (human).

N01HV-32949-11 (HCRG) BERRY, GUY C, PITTSBURGH, PENNSYLVANIA. Modification of silicon elastomers for medical devices.

N01HV-32950-08 (HCRG) KWIATKOWSKI, G. T., BOUND BROOK, NEW JERSEY. Blood compatible poly-electrolytes.

N01HV-32953-10 (HCRG) BAIER, ROBERT E, BUFFALO, NEW YORK. Materials compatible with blood (dogs).

N01HV-32959-10 (HCRG) BRAUMAN, SHARON K, MENLO PARK, CALIFORNIA. Development of materials for heart assist devices.

N01HV-32973-12 (HCRG) FISHER, LLOYD D, SEATTLE, WASHINGTON. Coordinating center for collaborative studies on coronary artery surgery.

N01HV-32974-09 (HCRG) ALDERMAN, EDWIN L, STANFORD, CALIFORNIA. Collaborative studies on coronary artery surgery (human).

N01HV-32975-08 (HCRG) JUDKINS, MELVIN P, LOMA LINDA, CALIFORNIA. Collaborative studies on coronary artery surgery (human).

N01HV-32976-09 (HCRG) GLASSMAN, EPHRAIM, NEW YORK, NEW YORK. Collaborative studies on coronary artery surgery (human).

N01HV-32978-08 (HCRG) KEMP, HARVEY G, NEW YORK, NEW YORK. Collaborative studies on coronary artery surgery.

N01HV-32979-09 (HCRG) GOSSELIN, ARTHUR J, MIAMI BEACH, FLORIDA. Collaborative studies on coronary artery surgery.

N01HV-32980-07 (HCRG) KAISER, GEORGE C, ST LOUIS, MISSOURI. Collaborative studies on coronary artery surgery (human).

N01HV-32981-10 (HCRG) SAUTTER, RICHARD D, MARSHFIELD, WISCONSIN Collaborative studies on coronary artery surgery (human).

N01HV-32983-11 (HCRG) BOURASIA, MARTIAL B, MONTREAL, QUEBEC. Collaborative studies on coronary artery surgery (human).

N01HV-32984-10 (HCRG) FRYE, ROBERT C, ROCHESTER, MINNESOTA Collaborative studies on coronary artery surgery (human)

N01HV-32985-11 (HCRG) MUNOTH, ELOREO D, BOSTON, MASSACHUSETTS. Collaborative studies on coronary artery surgery (human).

N01HV-33101-06 (HCRG) WIDDOWSON, GRAHAM, SAN FRANCISCO, CALIFORNIA. Development and conduct of a multiple risk factor intervention trial (human).

N01HV-33105-09 (HCRG) WILD, J E, OAKLAND, CALIFORNIA. Intervention trial for prevention of coronary heart disease (human).

N01HV-33106-06 (HCRG) DAWBER, THOMAS R, BOSTON, MASSACHUSETTS. Intervention trial for the prevention of coronary heart disease (human).

N01HV-33108-04 (HCRG) KEZDI, PAUL, KETTERING, OHIO. Prevention of coronary heart disease (human).

N01HV-33109-04 (HCRG) KULLER, LEWIS H, PITTSBURGH, PENNSYLVANIA Intervention trial for the prevention of coronary heart disease (human)

N01HV-33110-04 (HCRG) HOLMES, WILLIAM L, PHILADELPHIA, PENNSYLVANIA Prevention of coronary heart disease (human)

N01HV-42902-08 (HCRG) GARCIA-PALMIERI, MARIO R, SAN JUAN PUERTO RICO. Epidemiological studies of coronary heart disease (human)

N01HV-42911-07 (HCRG) RAUTAHARJU, P M, HALIFAX, CANADA ECG center for prevention of coronary heart disease (human)

N01HV-42914-13 (HCRG) PORTNER, PEER M, BERKELEY, CALIFORNIA Solenoid left ventricular assist system (cattle)

N01HV-42928-07 (HCRG) HAUBOLD, A D, SAN DIEGO, CALIFORNIA Continued development of carbon film deposits for prosthetics

N01HV-42929-08 (HCRG) JACOBSON, HOWARD N, PISCATAWAY, NEW JERSEY Risk factor intervention trial for the prevention of CHD (human)

N01HV-42930-09 (HCRG) SCHOENBERGER, JAMES A, CHICAGO, ILLINOIS Risk factor intervention trial for the prevention of CHD (human)

N01HV-42931-07 (HCRG) MARMORSTON, JESSIE, LOS ANGELES, CALIFORNIA Risk factor intervention trail for the prevention of CHD (men)

N01HV-42932-05 (HCRG) GIESE, WARREN K, COLUMBIA, SOUTH CAROLINA Risk factor intervention trial for the prevention of CHD (human).

N01HV-42933-09 (HCRG) CHRISTAKIS, GEORGE, MIAMI, FLORIDA Multiple risk factors in coronary heart disease (human)

N01HV-42960-07 (HCRG) NOSE, YUKIHIKO, CLEVELAND, OHIO Development and evaluation of cardiac prostheses (calves).

N01HV-42961-06 (HCRG) NYILAS, EMERY, EVERETT, MASSACHUSETTS Evaluation of biomaterials in contact with blood (dogs).

N01HV-42969-06 (HCRG) YANNAS, IOANNIS V, CAMBRIDGE, MASSACHUSETTS. Interactions of natural and chemically modified biopolymers with blood (dogs).

N01HV-42984-05 (HCRG) MICHAELI, DOV, SAN FRANCISCO, CALIFORNIA Interactions of modified biopolymers with blood (humans, rats).

N01HV-52901-06 (HCRG) KROL, WILLIAM F, BALTIMORE, MARYLAND. Aspirin-myocardial infarction study.

N01HV-52907-04 (HCRG) SILBERBERG, ALEXANDER, REHOVOT, ISRAEL. Interactions of platelets with collagens (human, mammals).

N01HV-52941-04 (HCRG) RIOS, JORGE, WASHINGTON, DISTRICT OF COLUMBIA. Center for aspirin-myocardial infarction study (human).

N01HV-52966-01 (HCRG) GRIFFIN, PAUL M, SCHENECTADY, NEW YORK. Development and evaluation of an ultrasonic imaging system (swine).

N01HV-52971-06 (HCRG) DAWBER, THOMAS R, BOSTON, MASSACHUSETTS. Reexamination of Framingham heart study cohort.

N01HV-53006-06 (HCRG) NORMAN, JOHN C, HOUSTON, TEXAS. Evaluation of model VII left ventricular assist device (human).

N01HV-53008-07 (HCRG) KEISER, JOHN M, WALTHAM, MASSACHUSETTS. Left ventricular assist device--Clinical evaluation (human).

N01HV-53010-03 (HCRG) HRUBEC, ZDENEK, WASHINGTON, DISTRICT OF COLUMBIA. NAS-NRC twin registry.

N01HV-53015-09 (HCRG) STEIN, YECHEZKIEL, JERUSALEM, ISRAEL. Establishment of a lipid research clinic (human).

N01HV-53027-05 (HCRG) KAPLAN, EDWARD M, BOSTON, MASSACHUSETTS. Data coordinating center for the unstable angina pectoris study.

N01HV-53029-04 (HCRG) CLARKSON, THOMAS B, WINSTON-SALEM, NORTH CAROLINA. Nonhuman primate models of atherosclerosis.

N01HV-53030-05 (HCRG) MC GILL, HENRY C, SAN ANTONIO, TEXAS. Nonhuman primate models of atherosclerosis and hypertension.

N01HV-53031-04 (HCRG) GARD, ELIZABETH, KENSINGTON, MARYLAND. Nonhuman primate models of atherosclerosis and hypertension.

N01HV-62900-00 (HCRG) LABARTHE, DARWIN R, ROCHESTER, MINNESOTA. Study of breast cancer and reserpine use (human).

N01HV-62905-02 (HCRG) ANGELAKOS, EVANGELOS T, PHILADELPHIA, PENNSYLVANIA. Non-human primate models of arteriosclerosis.

N01HV-62911-04 (HCRG) DANIELS, A V, SALT LAKE, UTAH. Vena cava ring tests of biomaterials in dogs.

N01HV-62941-01 (HCRG) GRAMBSCH, P VICTOR, MINNEAPOLIS, MINNESOTA. Nutrition coding center for MRFIT and LRC programs.

N01HV-62955-04 (HCRG) STEMMERMANN, GRANT N, HONOLULU, HAWAII. Data collection in clinical pathology and morbid anatomy (men).

N01HV-62957-05 (HCRG) MEINERT, CURTIS L, BALTIMORE, MARYLAND. Coordinating center model for NHLI clinical trials.

N01HV-62960-00 (HCRG) MUELLER, GILTRUD, ST LOUIS, MISSOURI. Techniques to protect ischemic myocardium and minimize infant size (human).

N01HV-62969-03 (HCRG) GORDON, MICHAEL S, MIAMI, FLORIDA. Cardiology patient simulator evaluation.

N01HV-72915-02 (HCRG) SLOTKOFF, LAWRENCE M, WASHINGTON, DISTRICT OF COLUMBIA. Therapy for hypertension in the general population.

N01HV-72917-00 (HCRG) UCHIDA, IRENE A, ONTARIO, CANADA. Plasma lipoproteins in identical twins.

N01HV-72918-01 (HCRG) MC MILLIN, CARL R, DAYTON, OHIO. Test polymers for circulatory assist devices.

N01HV-72919-01 (HCRG) KARDOS, J L, ST. LOUIS, MISSOURI. Test polymers for circulatory assist divices.

N01HV-72924-04 (HCRG) OLINGER, CHARLES P, CINCINNATI, OHIO. Non-invasive detection of atherosclerotic lesions (human, animals).

N01HV-72925-04 (HCRG) MC HENRY, LAWRENCE, WINSTON SALEM, NORTH CAROLINA. Non-invasive detection of atherosclerotic lesions (human, monkeys, dogs).

N01HV-72926-04 (HCRG) REID, JOHN M, SEATTLE, WASHINGTON Ultrasonic imaging development.

N01HV-72927-00 (HCRG) BARBER, FRANK F, CAMBRIDGE, MASSACHUSETTS. Systems for non-invasive detection of atherosclerotic lesions (human).

N01HV-72928-04 (HCRG) EVANS, TITUS C, ROCHESTER, MINNESOTA Develop high resolution ultrasonic imaging techniques.

N01HV-72929-01 (HCRG) FOX, MARTIN, STORRS, CONNECTICUT. Improved detection of atherosclerosis (human, dogs).

N01HV-72930-02 (HCRG) BLANKENHORN, DAVID H, LOS ANGELES, CALIFORNIA. Atherosclerosis assessment--Angiography and ultrasound (dogs, human).

N01HV-72931-02 (HCRG) OVITT, THERON W, TUCSON, ARIZONA. Non-invasive detection of atherosclerotic lesions (human, dogs).

N01HV-72932-00 (HCRG) SASHIN, DONALD, PITTSBURGH, PENNSYLVANIA. Non-invasive detection of atherosclerotic lesions (human, phantoms).

N01HV-72933-01 (HCRG) PORTNER, PEER M, BERKELEY, CALIFORNIA. Electrical energy transmission technique development (dogs).

N01HV-72934-01 (HCRG) WHALEN, ROBERT L, WALTHAM, MASSACHUSETTS. Development of a left heart assist blood pumps (human, cattle).

N01HV-72936-00 (HCRG) NORMAN, JOHN C, HOUSTON, TEXAS. Left heart assist device development (human, cattle).

N01HV-72937-00 (HCRG) LEDERMAN, DAVID, EVERETT, MASSACHUSETTS. Left heart assist blood pumps (calves).

N01HV-72938-01 (HCRG) PORTNER, PEER M, BERKELEY, CALIFDRNIA. Development of a left heart assist blood pump.

N01HV-72939-01 (HCRG) 8UCK, KEITH S, EMERYVILLE, CALIFORNIA. Oevelop and evaluate left heart assist blood pumps (human, calves, pigs).

N01HV-72940-02 (HCRG) 8RAUNWALD, EUGENE B, CAMBRIDGE, MASSACHUSETTS. Therapy to protect ischemic myocardium (human).

N01HV-72941-02 (HCRG) SOBEL, 8URTON E, ST. LOUIS, MISSOURI. Therapy to protect ischemic myocardium--Clinical tests.

N01HV-72942-02 (HCRG) WILLERSON, JAMES T, OALLAS, TEXAS. Therapy to protect ischemic myocardium--Clinical tests.

N01HV-72943-01 (HCRG) FREER, RICHARD J, RICHMOND, VIRGINIA. Prostaglandin and kallikrein kinin system antagonists.

N01HV-72944-02 (HCRG) MARSHALL, GARLAND R, ST LOUIS, MISSDURI. Prostaglandin and kallikrein kinin antagonists.

N01HV-72945-03 (HCRG) NEEDLEMAN, PHILIP, ST LOUIS, MISSOURI. Oevelop prostaglandin synthesis and receptor antagonists.

N01HV-72946-02 (HCRG) STEWART, JOHN M, OENVER, COLORADO. Development of kallikrein--Kinin system antagonists.

N01HV-7294B-03 (HCRG) HAWKINS, MORTON C, HDUSTON, TEXAS. Coordinating center for propranolol heart trial (human).

N01HV-72949-03 (HCRG) CROW, RICHARD S, ST. PAUL, MINNESDTA. ECG center for proprancolo heart trial.

N01HV-729S0-02 (HCRG) IBBOTT, FRANK A, VAN NUYS, CALIFORNIA. Central laboratory for propranolol heart trial.

N01HV-72951-03 (HCRG) VOKONAS, PANTEL S, BOSTDN, MASSACHUSETTS. Clinical center for propranolol heart trial (human).

N01HV-72952-02 (HCRG) KOHN, ROBERT M, ALBANY, NEW YDRK. Clinical center for propranolol heart trial (huamn).

N01HV-729S3-04 (HCRG) MATHEWS, LOUIS 8, HANOVER, NEW HAMPSHIRE. Clinical center for propranolol heart trial.

N01HV-72954-06 (HCRG) BORHANI, NEMAT O, DAVIS, CALIFORNIA. Clinical center for propranolol heart trial (human).

N01HV-7295S-02 (HCRG) GARYN, WILNER, EVANSTON, ILLINOIS. Clinical center for propranolol heart trial (human).

N01HV-72956-02 (HCRG) MC NAMARA, J JUDSON, HONDLULU, HAWAII. Clinical center for propranolol heart trial (human).

N01HV-72957-02 (HCRG) 8RENEMAN, GERALD M, DETRDIT, MICHIGAN. Clinical center for propranolol heart trial (human).

N01HV-729S8-02 (HCRG) HOLMES, WILLIAM L, PHILAOELPHIA, PENNSYLVANIA. Clinical center for propranolol heart trail (human).

N01HV-72959-04 (HCRG) KRAMER, ROBERT J, NEW HYDE PARK, NEW YORK. Clinical center for propranolol heart trial (human).

N01HV-72960-02 (HCRG) LICHSTEIN, EDGAR, BROOKLYN, NEW YORK. Clinical center propranolol heart trial (human).

N01HV-72961-03 (HCRG) RANHEIM, PHILLIP J, MINNEAPDLIS, MINNESDTA. Clinical center for propranolol heart trial.

N01HV-72963-02 (HCRG) HARING, OLGA M, EVANSTON, ILLINDIS. Clinical center for propranolol heart trial (human).

N01HV-72964-02 (HCRG) GREGORY, JOHN J, SUMMIT, NEW JERSEY. Clinical center for propranolol heart trial (human).

N01HV-7296S-02 (HCRG) MAURICE, GORDON L, PORTLAND, DREGDN. Clinical center for propranolol heart trial.

N01HV-72966-03 (HCRG) YU, PAUL N, RDCHESTER, NEW YORK. Clinical center for propranolol heart trial.

N01HV-72967-02 (HCRG) SCHOENBERGER, JAMES A, CHICAGO, ILLINOIS. Clinical center for propranolol heart trial (human).

N01HV-72968-03 (HCRG) KUO, PETER T, PISATAWAY, NEW JERSEY. Clinical center for propranolol heart trial.

N01HV-72969-02 (HCRG) BARKER, ALLEN H, SALT LAKE CITY, UTAH. Clinical center for propranolol heart trial (human).

N01HV-72970-04 (HCRG) HAYWOOD, L JULIAN, LDS ANGELES, CALIFORNIA. Clinical center for propranolol heart trial (human).

N01HV-72971-01 (HCRG) MOISE, JOHN C, SACRAMENTO, CALIFORNIA. Energy converters to control heart assist devices (human, cattle).

N01HV-72975-02 (HCRG) JARVIK, ROBERT K, SALT LAKE CITY, UTAH. Energy converter for left ventrical assist devices (calves).

N01HV-72976-02 (HCRG) KEISER, JOHN M, WALTHAM, MASSACHUSETTS. Energy converters to control heart assist devices (human, cattle).

N01HV-72978-02 (HCRG) CLARKSON, THOMAS 8, WINSTON-SALEM, NORTH CARDLINA. Oevelopment of models of hypertension.

N01HV-72979-01 (HCRG) POOLE, KENNETH W, RESEARCH TRIANGLE PARK, NDRTH CARDLINA. Therapy to protect ischemic myocardium--Data Center.

N01HV-72980-02 (HCRG) HERD, JAMES A, CAMBRIOGE, MASSACHUSETTS. Oevelopment of models of hypertension.

N01HV-729B3-00 (HCRG) SCHROTT, HELMUT G, IOWA CITY, IDWA. Nutrition counseling in hyperlipidemia.

N01HV-72984-03 (HCRG) OSTFELD, ADRIAN M, HARTFORO, CDNNECTICUT. High blood pressure control program (human).

N01HV-729B6-02 (HCRG) SOUTHARD, JOHN W, BALTIMORE, MARYLAND. High blood pressure control program (human).

N01HV-72987-02 (HCRG) MC CALLUM, DAVID B, CDLUMBIA, SDUTH CAROLINA. High blood pressure control program (human).

N01HV-72989-02 (HCRG) OLIVER, CHARLES G, DALLAS, TEXAS. High blood pressure control program (human).

N01HV-72990-00 (HCRG) KLEIN, DAVID H, CHICAGO, ILLINOIS. High blood pressure control program (human).

N01HV-B1388-20 (HCRG) 8EACH, WILLIAM F, BOUND BROOK, NEW JERSEY. Microfiber substrate for growth of intimal linings in circulatory assist devices .

N01HV-82900-03 (HCRG) MILLER, RICHARD R, HDUSTON, TEXAS. Clinical center for propranolol heart trial (human).

N01HV-82901-02 (HCRG) PETERS, ROBERT W, SAN FRANCISCO, CALIFORNIA. Clinical center for propranolol heart trial (human).

N01HV-82902-02 (HCRG) SCHLANT, ROBERT D, ATLANTA, GEDRGIA. Clinical center for propranolol heart trial (human).

N01HV-82903-02 (HCRG) LAU8ACH, CHARLES A, OANVILLE, PENNSYLVANIA. Clinical center for propranolol heart trial (human).

N01HV-B2904-02 (HCRG) PROUT, THADDEUS E, BALTIMORE, MARYLAND. Clinical center for propranolol heart trial (human).

N01HV-82905-02 (HCRG) GROVER, JOHN, OAKLAND, CALIFDRNIA. Clinical center for propranolol trial (human).

N01HV-82906-02 (HCRG) RICHARDSON, DAVID D, RICHMOND, VIRGINIA. Ciinical center for propranolol heart trial (human).

N01HV-82907-02 (HCRG) CANOSA, FRANK L, MIAMI BEACH, FLORIDA. Clinical center for propranolol heart trial (human).

N01HV-B2908-02 (HCRG) CAPONE, ROBERT J, PROVIDENCE, RHDDE ISLAND. Clinical center for propranolol heart trial (human).

N01HV-82909-02 (HCRG) GAZES, PETER C, CHARLESTDN, SDUTH CARDLINA. Clinical center for propranolol heart trial (human).

N01HV-B2910-00 (HCRG) THEROUX, PIERRE A, MONTREAL, QUEBEC, CANADA. Clinical center for propranolol heart trial (human).

N01HV-B2913-00 (HCRG) ERFURT, JOHN C, ANN ARBOR, MICHIGAN. Oemonstration programs in hypertension control in the work setting (human).

N01HV-82915-01 (HCRG) KASS, EDWARD H, BOSTDN, MASSACHUSETTS. Therapy for hypertension in the general population (human).

N01HV-82919-00 (HCRG) DALY, BENEDICT D T, BDSTON, MASSACHUSETTS. Development of percutaneous energy transmission systems.

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BAKER, JOHN	P01HL11310-12 0104
BAKER, LEE E	R01HL19678-01
BAKER, RICHARD	P60HL15162-07 0020
BALCERZAK, STANLEY	N01HB22922-08
BALDWIN, DAVID S	R01HL15124-05
BALDWIN, JACK E	R01HL17794-03
BALDWIN, JACK E	R01HL23120-01
BALDWIN, KENNETH M	R01HL22361-01
BALFOUR, H H, JR	P01HL06314-17 0061
BALINT, JOHN A	R01HL15273-06
BALLARD, DANA H	R23HL21253-01
BALLARD, PHILIP L	P50HL19185-02 0005
BANCHERO, NATALIO	R01HL18145-03
BANERJEE, SHAILESH	R01HL18185-04
BANG, FREDERIK B	P50HL19157-02 0004
BANK, NORMAN	R01HL14720-08
BANK, NORMAN	R01HL19366-03
BARAJAS, LUCIANO	R01HL18340-04
BARANOWSKI, TOM	R01HL22802-01
BARBEE, ROBERT	P50HL14136-07 9005
BARBER, FRANK F	N01HV72927-00
BARBERO, GIULIO J	P50HL19160-02
BARBORIAK, JOSEPH J	R01HL14378-07
BARBORIAK, JOSEPH J	P50HL15389-07 0017
BARENHOLZ, YECHEZKE	R01HL17576-04
BARGER, A CLIFFORD	R01HL02493-22
BARGER, A CLIFFORD	R01HL19467-03
BARKER, ALLEN H	N01HV72969-02
BARNARD, R JAMES	R01HL20253-02
BARNDT, ROBERT, JR	R23HL21279-02
BARNER, HENDRICK B	P01HL06312-17 0015
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BARNER, HENDRICK B	P01HL06312-17 0044
BARNER, HENDRICK B	P01HL06312-17 0051
BARNER, HENDRICK B	P01HL06312-17 0052
BARNES, ROBERT W	R01HL22852-01
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BARRETT, JACK D	R01HL21877-01
BARRETT, WILLIAM A	P01HL04664-18 0016
BARTLETT, DONALD, J	R01HL19827-02
BARTLETT, GRANT R	R01HL06950-17
BARTLETT, GRANT R	R01HL16931-04
BARTLETT, ROBERT H	R01HL15593-05
BASEMAN, JOEL B	P50HL19171-02 0010
BASHE, WINSLOW J, J	R01HL18793-03
BASOLO, FRED	R01HL13412-17
BASSETT, ARTHUR L	R01HL19044-03
BASSINGTHWAIGHTE, J	R01HL19135-04
BASSINGTHWAIGHTE, J	R01HL19139-03
BAUE, ARTHUR E	R01HL19673-03
BAUER, CHARLES	N01HR62951-04
BAUMANN, WOLFGANG J	P01HL08214-15 0027
BAUMANN, WOLFGANG J	P01HL08214-15 0040
BAUMSTARK, JOHN S	R01HL15979-05
BAUR, PAUL S	R01HL19048-03
BAXLEY, WILLIAM A	P01HL11310-12 0083
BAXLEY, WILLIAM A	P01HL11310-12 0084
BAXTER, JOHN D	R01HL16918-05
BAYLIN, STEPHEN B	P50HL19157-02 0009
BEACH, WILLIAM F	N01HV81388-20
BEAL, JACK L	R01HL07502-13
BECK, NAMA	R01HL19057-03
BECKER, CARL G	R01HL01803-23
BECKER, CARL G	R01HL01803-23 0001
BECKER, CARL G	R01HL01803-23 0011
BECKER, CARL G	R01HL01803-23 0017
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BECKER, CARL G	R01HL01803-23 0022
BECKER, CARL G	P50HL18828-03 0006
BECKER, LEWIS	P50HL17655-04 0009
BECKER, LEWIS C	P50HL17655-04 0011
BECKER, LEWIS C	R01HL19937-02
BELL, D G	P01HL07896-15 0061
BELL, ROBERT G	R01HL14847-07
BELLANTI, JOSEPH A	P01HL16748-05
BELLANTI, JOSEPH A	P01HL16748-05 0004
BELLER, GEORGE A	R01HL21751-02 0002
BELLVILLE, J WELDON	R01HL15659-05
BENDITT, EARL P	P01HL03174-23
BENDITT, EARL P	P01HL03174-23 0006
BENESCH, RUTH E	R01HL05791-18
BENESCH, RUTH E	R01HL17552-03
BENGIS, ROY G	P01HL11678-11 0057
BENNETT, CLAUDE	P01HL11310-12 0098
BENNETT, MICHAEL	R01HL18186-04
BENNETT, PETER B	P01HL07896-15
BENNETT, PETER B	P01HL07896-15 0029
BENNETT, PETER B	P01HL07896-15 0030
BENSAOUN, ANDRE	R01HL14990-07
BENSON, BRADLEY J	P50HL19185-02 0002
BENSON, ELLIS S	P01HL16833-04
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BENSON, ELLIS S	P01HL16833-04 0004
BENSON, HERBERT	P01HL10539-12 0023
BENSON, HERBERT	P01HL10539-12 0031
BENSON, HERBERT	P01HL10539-12 0065
BENSON, HERBERT	P01HL10539-12 0066
BENSUSAN, HOWARD B	R01HL22081-20
BERENSON, GERALD S	R01HL02942-22
BERENSON, GERALD S	P50HL15103-07
BERENSON, GERALD S	P50HL15103-07 0001
BERGE, KENNETH B	R01HL08892-10
BERGOFSKY, EDWARD H	R01HL17711-05

BERGOFSKY, EDWARD H	R01HL23210-01
BERGUER, RAMON	R01HL19406-03
BERKOFF, HERBERT A	R01HL19378-03
BERMAN, REUBEN	N01HV22937-07
BERMAN, WILLIAM, JR	R01HL23980-01
BERNE, ROBERT M	R01HL10384-13
BERNE, ROBERT M	P01HL19242-02
BERNHARD, WILLIAM F	R01HL20037-02
BERNS, MICHAEL W	R01HL15740-06
BERNSTEIN, EUGENE F	P01HL18576-03 0001
BERNSTEIN, EUGENE F	P01HL18576-03 0010
BERNSTEIN, EUGENE F	R01HL18948-03
BERNSTEIN, EUGENE F	R01HL22741-01
BERRY, GUY C	N01HV32949-11
BERTLES, JOHN F	P01HL16851-04 0005
BESCH, HENRY R, JR	P01HL06308-18 0025
BETTICE, JOHN A	R23HL19601-01
BEUTLER, ERNEST	R01HL07449-17
BEVAN, JOHN A	R01HL08359-14
BEVAN, JOHN A	R01HL15805-06
BEVAN, JOHN A	P01HL20581-01
BEVAN, JOHN A	P01HL20581-01 0001
BEVAN, ROSEMARY D	P01HL20581-01 0002
BEVAN, ROSEMARY D	P01HL20581-01 0005
BEVAN, ROSEMARY D	P01HL20581-01 9001
BHALLA, RAMESH C	R01HL19027-03
BHAM, ASHOK K	R01HL23994-01
BHATNAGAR, RAJENDRA	R01HL19668-03
BHATNAGAR, RANBIR K	P01HL14388-07 0193
BHATTACHARYYA, ASHI	P01HL08974-14 9001
BIANCHI, C PAUL	P01HL15835-06 0018
BIEBER, CHARLES P	P01HL13108-09 0002
BIEBER, CHARLES P	P01HL13108-09 0010
BIEBER, CHARLES P	P01HL13108-09 0011
BIEBER, CHARLES P	P01HL13108-09 0012
BIEBER, CHARLES P	P01HL13108-09 0013
BIEBER, CHARLES P	P01HL13108-09 0015
BIENKOWSKI, ROBERT	R01HL22729-01
BIERMAN, EDWIN L	N01HV12157-14
BIGGER, J THOMAS, J	P01HL12738-10 0117
BIGLER, RODNEY E	R01HL22371-01
BILEZIKIAN, JOHN P	R01HL20859-02
BILHEIMER, DAVID W	R01HL15949-05
BILLINGHAM, MARGARE	P01HL13108-09 0003
BING, OSCAR H	R01HL18338-04
BING, OSCAR H L	P01HL10539-12 0067
BING, OSCAR H L	P01HL20552-02 0003
BIRNBAUMER, LUTZ	R01HL19423-03
BISHOP, BEVERLY	P01HL14414-07 0007
BISHOP, DAVID H L	P01HL11310-12 0100
BISHOP, SANFORD P	P50HL17667-04 0045
BISHOP, VERNON S	R01HL12415-10
BISNO, ALAN L	P60HL15169-05 0009
BITTAR, NEVILLE	R01HL17759-03
BITTMAN, ROBERT	R01HL16660-06
BITTMAN, ROBERT	R01HL22052-01
BJORNSON, ANN B	R01HL20314-02
BLACKBURN, HENRY W	N01HV22976-07
BLACKSHEAR, PERRY L	P01HL16833-04 0008
BLACKSHEAR, PERRY L	R01HL21188-02
BLACKSTONE, EUGENE	P01HL11310-12 0054
BLACKSTONE, EUGENE	P01HL11310-12 0060
BLACKSTONE, EUGENE	P01HL11310-12 0061
BLACKSTONE, EUGENE	P01HL11310-12 0068
BLACKSTONE, EUGENE	P01HL11310-12 0069
BLACKSTONE, EUGENE	P50HL17667-04 0022
BLACKWELL, JOHN	R01HL21622-02
BLAINE, EDWARD H	R01HL22617-01
BLAIR, MARTHA L	R23HL22728-01
BLANC, WILLIAM A	P01HL17813-04 0002
BLAND, RICHARD D	P50HL19185-02 0004
BLAND, RICHARD D	P50HL19185-02 0007
BLANKENHORN, DAVID	P50HL14138-05
BLANKENHORN, DAVID	N01HV72930-02
BLANTZ, ROLAND C	R01HL14914-06
BLASIE, J KENT	P01HL18708-03 0004
BLAUFOX, MORTON D	N01HV22931-14
BLEECKER, EUGENE R	P01HL10342-13 0028
BLINKS, JOHN R	R01HL12186-09
BLOCH, KONRAD E	R01HL02477-23
BLOCK, A JAY	R01HL22622-01
BLOCK, EDWARD R	R01HL21115-01
BLOMBACK, BIRGER E	R01HL07379-13
BLOMBACK, G BIRGER	P01HL09011-15 0002
BLOMQVIST, C GUNNAR	P50HL17669-04 0013
BLOMQVIST, GUNNAR	P01HL06296-18 0003
BLOOM, SHERMAN	R01HL22137-02
BLOOMQUIST, EUNICE	R01HL19012-03
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BLOOR, COLIN M	P50HL17682-04 0012
BLOOR, COLIN M	P50HL17682-04 0016
BLOOR, COLIN M	R01HL20190-02
BLUMENFELD, OLGA	P50HL14236-05 0008
BLUMENSTOCK, DAVID	R01HL13987-04
BLUMENTHAL, MALCOLM	R01HL23631-01
BOAT, THOMAS F	R01HL13885-08 0009
BOAT, THOMAS F	R01HL14844-06
BOAT, THOMAS F	N01HR52957-02
BOCKMAN, EMMA L	R01HL17932-04
BOERTH, ROBERT C	R01HL17629-03
BOGGS, DANE R	R01HL19333-03
BOHLEN, HAROLD G	R01HL20605-02
BOHR, DAVID F	P01HL18575-03
BOHR, DAVID F	P01HL18575-03 0001
BOHR, DAVID F	P01HL18575-03 0009
BOHR, DAVID F	P01HL18575-03 0010
BOINEAU, JOHN P	R01HL18398-04
BONAVENTURA, JOSEPH	R01HL15460-06
BONCHEK, LAWRENCE I	R01HL21071-02
BOND, GARY C	R01HL21094-01
BOND, M GENE	P50HL14164-07 0031
BONILLA, CARLOS A	R01HL16233-05
BOOKCHIN, ROBERT M	P01HL21016-02 0003
BOOKCHIN, ROBERT M	P01HL21016-02 0006
BOOKCHIN, ROBERT M	P01HL21016-02 0007
BOOKSTEIN, JOSEPH J	R01HL19675-02
BOOR, PAUL J	R23HL21327-02
BOOYSE, FRANCOIS M	R01HL17973-04
BORDERS, STEPHEN E	R23HL22745-01
BOREJDO, JULIAN	P01HL16683-04 0001
BORHANI, NEMAT O	N01HV22945-11
BORHANI, NEMAT O	N01HV22977-08
BORHANI, NEMAT O	N01HV72954-06
BORNSTEIN, PAUL	P01HL18645-03 0003
BOROS, DOV L	R01HL19732-03
BOROS, DOV L	R01HL20104-03
BOROWITZ, IRVING J	R01HL16746-04
BORTIN, MORTIMER M	N01HB62963-03
BOSIN, TALMAGE R	R23HL19573-01
BOSSEN, EDWARD H	R01HL15888-05
BOTTS, JEAN	P01HL06285-18 0173
BOUCEK, ROBERT J, J	R01HL17865-04
BOUCEK, ROBERT J, J	R01HL17909-04
BOUCEK, ROBERT J, J	R23HL21234-02
BOUCEK, ROBERT J, J	R01HL22040-01
BOUCHER, RICHARD C	R01HL22924-01
BOUHUYS, AREND	R01HL21352-02
BOURASIA, MARTIAL B	N01HV32983-11
BOURLAND, JOE D	R01HL20629-02
BOURLAND, JOE D	R01HL22321-01
BOVE, ALFRED A	R01HL19425-03
BOWIE, E J	P01HL17430-05
BOWIE, E J WALTER	P01HL17430-05 0001
BOWMAN, BARBARA H	N01HR72922-01
BOWMAN, JAMES E	P60HL16005-05
BOWMAN, JAMES E	P60HL16005-05 9001
BOYARSKY, LOUIS L	P01HL16878-05 0004
BOYLEN, C THOMAS	N01HR62947-04
BRACE, ROBERT A	P01HL11678-11 0035
BRACE, ROBERT A	P01HL11678-11 0070
BRADFORD, REAGAN H	N01HV22932-09
BRADLEY, RONALD J	P01HL11310-12 0102
BRADLEY, THOMAS B	P60HL20985-01 0003
BRADY, ALLAN J	P01HL11351-12
BRADY, ALLAN J	P01HL11351-12 0003
BRADY, ALLAN J	P01HL11351-12 0005
BRADY, ALLAN J	P01HL11351-12 0019
BRADY, JUNE P	P50HL19185-02 0009
BRAIN, JOSEPH D	R01HL17543-03 0004
BRAIN, JOSEPH D	P50HL19170-02
BRAIN, JOSEPH D	P50HL19170-02 0001
BRAIN, JOSEPH D	P50HL19170-02 0004
BRANCH, GERALDINE	P60HL23282-01 9002
BRANDTS, JOHN F	R01HL17878-04
BRANTON, DANIEL	R01HL17411-04
BRATER, DONALD C	R23HL22882-01
BRATZLER, ROBERT L	R01HL18736-03
BRAUMAN, SHARON K	N01HV32959-10
BRAUN, NORMA	P01HL17813-04 0006
BRAUNWALD, EUGENE	P01HL20552-02
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BRAUNWALD, EUGENE	P01HL20552-02 0002
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BRAVERMAN, BERTON	P01HL08682-15 0026
BRAVERMAN, BERTON	P01HL08682-15 0027
BRAVO, EMMANUEL L	P01HL06835-17 0045
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BRAVO, EMMANUEL L	P01HL06835-17 0059
BRECHER, PETER I	P50HL18318-03 0015
BREGMAN, DAVID	P01HL12738-10 0071
BREGMAN, DAVID	P01HL12738-10 0123
BRENEMAN, GERALD M	N01HV72957-02
BRENNAN, ROBERT W	P50HL19190-02 0006
BRESLOW, JAN L	R01HL15895-05
BRESSLER, RUBIN	R01HL13636-08
BREWER, GEORGE J	N01HB72916-02
BREWER, GEORGE J	P60HL16008-06 0014
BRIEHL, ROBIN W	R01HL07451-16
BRIERLEY, GERALD P	R01HL09364-14
BRIERLEY, GERALD P	R01HL23166-01
BRIGGS, F NORMAN	R01HL19485-03
BRIGHAM, KENNETH L	P50HL14214-07 0025
BRIGHAM, KENNETH L	P50HL19153-02
BRIGHAM, KENNETH L	P50HL19153-02 0001
BRIGHAM, KENNETH L	P50HL19153-02 0002
BRIGHAM, KENNETH L	P50HL19153-02 0003
BRILL, A B	P50HL14192-08 0008
BRILL, ARTHUR S	R01HL13989-05
BRINKHOUS, KENNETH	R01HL01648-31
BRINKHOUS, KENNETH	R01HL10582-12
BRINKLEY, JAMES	P01HL07293-17 0042
BRINKMAN, CHARLES R	R01HL13634-08
BRISCOE, WILLIAM A	R01HL12530-10
BROCKMAN, HOWARD L	P01HL08214-15 0041
BROCKMAN, HOWARD L,	R01HL17371-05
BROCKMAN, HOWARD L,	R01HL23003-01
BRODHEIM, ERIC	P01HL09011-15 0017
BRODY, JEROME S	P01HL19717-02 0023
BRODY, JEROME S	P01HL19717-02 0024
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BRODY, JEROME S	P01HL19717-02 0027
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BRODY, MICHAEL J	P01HL14388-07 0187
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BRODY, MICHAEL J	P01HL14388-07 0205
BRODY, MICHAEL J	P01HL14388-07 9001
BROMBERGER-BARNEA,	P01HL10342-13 9001
BROOKER, GARY	R01HL15985-06
BROOKER, GARY	P01HL19242-02 0004
BROOKS, HAROLD L	P50HL17648-04 0006
BROOKS, HAROLD L	P50HL17648-04 0021
BROOKS, SAMUEL H	P50HL14138-05 0014
BROOKS, STUART M	R01HL22415-01
BROWN, ARTHUR C	P01HL16910-05 0008
BROWN, ARTHUR M	R01HL16657-06
BROWN, ARTHUR M	R01HL18798-04
BROWN, ARTHUR M	R01HL18798-04 0002
BROWN, AUDREY K	P60HL15170-05 0006
BROWN, AUDREY K	P60HL15170-05 0007
BROWN, AUDREY K	P60HL15170-05 0008
BROWN, B GREG	R01HL19451-03 0004
BROWN, DAVID M	P01HL06314-17 0064
BROWN, MICHAEL S	P01HL20948-02
BROWN, MICHAEL S	P01HL20948-02 0001
BROWN, MICHAEL S	P01HL20948-02 0002
BROWN, MICHAEL S	P01HL20948-02 0003
BROWN, OLIVER M	R01HL17799-02
BROWN, W VIRGIL	R01HL22967-01
BROWNELL, KELLY D	R23HL22345-02
BROWNELL, KELLY D	R23HL22345-02 0001
BROWNELL, KELLY D	R23HL22345-02 0002
BROWNIE, ALEXANDER	R01HL06975-18
BRUCE, ROBERT A	R01HL18805-04 0001
BRUESCHKE, ERICH E	R01HL21632-02
BRUMLEY, GEORGE W	P01HL07896-15 0058
BRUNZELL, JOHN D	R01HL18687-03
BRUSILOW, SAUL W	P50HL19157-02 0001
BRYNJOLFSSON, GISSU	P01HL08682-15 0011
BUCCI, CLARA F	R01HL16891-05
BUCCI, ENRICO	R01HL13164-07
BUCHANAN, DENTON C	P50HL14214-07 0013
BUCHANAN, JAMES W	R01HL17581-03
BUCHWALD, HENRY	R01HL11901-12
BUCHWALD, HENRY	R01HL11901-12 0001
BUCHWALD, HENRY	R01HL11901-12 0004
BUCHWALD, HENRY	R01HL11901-12 0006

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BUCHWALD, HENRY	R01HL11901-12 0019
BUCHWALD, HENRY	R01HL11901-12 0020
BUCHWALD, HENRY	P01HL15265-05
BUCK, KEITH S	N01HV72939-01
BUCKBERG, GERALD D	R01HL16292-05
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BUCKLEY, JOSEPH P	R01HL17401-03
BUCKLEY, MORTIMER J	P50HL17665-04 0020
BUCKLEY, NANCY M	R01HL15444-06
BUCKNER, CARL K	R01HL23209-01
BUDINGER, THOMAS F	R01HL21697-01
BUDZYNSKI, ANDREI Z	P50HL14217-08 0048
BUJA, L MAXIMILIAN	P50HL17669-04 0022
BULKLEY, BERNADINE	P50HL17655-04 0001
BULLOCK, BILL C	P50HL14164-07 0026
BUMPUS, F MERLIN	P01HL06835-17
BUMPUS, F MERLIN	P01HL06835-17 0030
BUMPUS, F MERLIN	P01HL06835-17 0031
BUMPUS, F MERLIN	P01HL06835-17 0032
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BUMPUS, F MERLIN	P01HL06835-17 0044
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BUNAG, RUBEN D	R01HL22854-01
BUNN, H FRANKLIN	R01HL16927-05
BUNN, H FRANKLIN	R01HL20925-01
BUONASSISI, VINCENZ	R01HL17995-04
BURGESS, MARY J	R01HL12611-10
BURGESS, MARY J	R01HL21710-01
BURGESS, MARY JO	P01HL13480-09 0032
BURKEL, WILLIAM E	N01HV12054-14
BURKI, N K	P01HL16878-05 0001
BURNS, BARRY	P01HL10342-13 0024
BURNS, BARRY	P01HL10342-13 0025
BURNS, CHARLES P	P50HL14230-07 0093
BUROW, ROBERT D	P50HL17655-04 0012
BURROWS, BENJAMIN	P50HL14136-07
BURROWS, BENJAMIN	P50HL14136-07 0009
BURROWS, BENJAMIN	P50HL14136-07 9007
BURST, SANIA	N01HR32900-09
BURTON, JAMES A	P01HL19259-03 0002
BURTON, JAMES A	R01HL19517-03
BUSCH, GEORGE J	P01HL06370-17 0001
BUTCHER, BRIAN T	P50HL15092-07 0005
BUTCHER, BRIAN T	P50HL15092-07 0014
BUTKUS, ANTANAS	P01HL06835-17 0014
BUTKUS, ANTANAS	P01HL06835-17 0015
BUTKUS, ANTANAS	P01HL06835-17 0016
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BUTKUS, ANTANAS	P01HL06835-17 0022
BUTKUS, ANTANAS	P01HL06835-17 0024
BUTKUS, ANTANAS	P01HL06835-17 0026
BUTKUS, ANTANAS	P01HL06835-17 0063
BUTLER, COOLEY II	P50HL14136-07 9003
BUTLER, COOLEY, II	P50HL14136-07 0004
BUTLER, JOHN	R01HL20652-01
BUTLER, JOHN	R01HL20690-02
BUTLER, VINCENT P	P01HL15486-06 0002
BUTLER, VINCENT P,	R01HL10608-12
CADENHEAD, DAVID A	R01HL12760-09
CADY, LEE D	R01HL18235-03
CAHILL, PATRICK T	R01HL21684-02 0004
CAIN, STEPHEN M	R01HL14693-07
CALA, PETER M	R01HL21179-01
CALDWELL, PETER R B	P01HL17813-04 0007
CALDWELL, PETER R B	P01HL17813-04 0008
CALDWELL, ROBERT W	R01HL17796-04
CALLAHAN, T J	R01HL09906-13 0021
CAMERON, BRUCE F	P60HL15999-05 0014
CAMPBELL, GILBERT S	P01HL15265-05 0014
CAMPBELL, KENNETH B	R23HL21462-02
CAMPBELL, WALLACE G	R01HL19539-03
CAMPBELL, WILLIAM B	R23HL21066-02
CANESSA, MITZY	P01HL06664-17 0040
CANFIELD, ROBERT E	P01HL15486-06 0001
CANN, JOHN R	R01HL13909-27
CANNER, PAUL	R01HL08888-12
CANNON, PAUL J	R01HL10182-13
CANNON, PAUL J	R01HL14148-07
CANNON, PAUL J	R01HL14148-07 0008
CANNON, PAUL J	R01HL14148-07 0009
CANNON, PAUL J	P50HL14236-05 0002
CANNON, PAUL S	P50HL21006-02 0005
CANOSA, FRANK L	N01HV82907-02
CAPALDI, RODERICK A	R01HL22050-01
CAPLAN, ROBERT D	R25HL18418-03
CAPONE, ROBERT J	N01HV82908-02
CAREY, KENNETH D	P50HL19362-02 0016
CAREY, ROBERT M	R01HL22306-01
CARIDE, VICENTE J	R01HL22470-01
CARLSON, JAMES R	R01HL13645-11
CARNES, WILLIAM H	R01HL12561-11
CARRETERO, OSCAR A	R01HL15839-05
CARRETERO, OSCAR A	R01HL21092-02
CASE, DAVID B	P50HL18323-04 0044
CASE, DAVID B	P50HL18323-04 0047
CASE, ROBERT B	R01HL23982-01
CASKEY, CHARLES T	R01HL20070-02
CASSELL, GAIL H	R01HL19741-03
CASSIN, SIDNEY	R01HL10834-09
CASTELLINO, FRANCIS	R01HL13423-08
CASTELLINO, FRANCIS	R01HL19982-02
CASTLE, CHARLES H	N01HV12435-15
CASTLE, MANFORD C	R23HL21083-02
CASTOR, C WILLIAM	R01HL19685-03
CASTRANOVA, V	R01HL09906-13 0022
CASTRANOVA, V	R01HL09906-13 0023
CASTRO, OSWALDO	P60HL15160-07 0011
CASTRO, OSWALDO	P60HL15160-07 0012
CASTRO, OSWALDO	P60HL15160-07 0014
CASWELL, ANTHONY P	P01HL16117-05 0002
CATANZARO, P	P01HL15195-04 0004
CATTERALL, WILLIAM	R01HL22239-01
CAUGHEY, WINSLOW S	R01HL15980-06
CENTER, DAVID	P01HL19717-02 0016
CERAMI, ANTHONY	R01HL20016-03
CERAMI, ANTHONY	R01HL20520-03
CEVALLOS, WILLIAM H	R01HL17564-03
CHACKO, SAMUEL	P01HL15835-06 0025
CHACKO, SAMUEL K	R01HL22264-01
CHADWICK, JOSEPH H	R25HL18424-03
CHAN, LEE-NIEN L	R01HL19068-03
CHAN, LEE-NIEN L	R01HL24048-01
CHAN, SHUNG K	R01HL16166-05
CHANCE, BRITTON	P50HL15061-07 0012
CHANCE, BRITTON	P01HL15835-06 0013
CHANCE, BRITTON	R01HL17826-04
CHANCE, BRITTON	P01HL18708-03
CHANCE, BRITTON	P01HL18708-03 0010
CHANDRAN, KRISHNAN	R01HL18156-02
CHANG, HSIN-KANG	R01HL18022-03
CHANG, TA-YUAN	R01HL21246-02
CHAO, FRANCIS C	R01HL18935-03
CHAO, TESSA L	R23HL21129-02
CHAPMAN, KENT M	R01HL19995-02
CHAPNICK, BARRY M	R01HL19997-02
CHAPPLE, PAUL J	R01HL21008-02
CHARACHE, SAMUEL	R01HL02799-22
CHASE, CHRISTOPHER	P60HL17292-04 0029
CHEN, EDWIN H	N01HB72982-03
CHEN, JAMES P	R01HL20014-02
CHENEY, FREDERICK W	R01HL20612-02
CHENG, PI-WAN	R23HL22818-01
CHERNIACK, NEIL S	R01HL20847-02
CHERNIACK, R M	N01HR32903-11
CHESEBRO, JAMES H	R01HL21533-02
CHESLER, DAVID A	R01HL20274-02
CHESNEY, CAROLYN M	R01HL18650-03
CHEUNG, PETER W	R01HL18710-02
CHEUNG, PETER W	R01HL18725-03
CHEVALIER, PETER A	P01HL21584-02 9002
CHI, EMIL Y	P01HL03174-23 0013
CHIEN, SHU	P01HL12738-10 0069
CHIEN, SHU	P01HL16851-04
CHIEN, SHU	P01HL16851-04 0001
CHIEN, SHU	P01HL16851-04 0009
CHIEN, SHU	P01HL16851-04 0010
CHIEN, SHU	P50HL18323-04 0042
CHIEN, SHU	R01HL19454-02
CHILCOTE, ROBERT R	P60HL16005-05 0020
CHILDERS, RORY W	P50HL17648-04 0018
CHIMOSKEY, JOHN E	P01HL13330-08 0059
CHIN, H P	P50HL14138-05 0008
CHINARD, FRANCIS P	R01HL12879-09
CHINARD, FRANCIS P	R01HL12879-09 0005
CHINARD, FRANCIS P	R01HL12879-09 0006
CHINARD, FRANCIS P	R01HL12879-09 0007
CHINARD, FRANCIS P	R01HL12879-09 0008
CHINARD, FRANCIS P	R01HL12974-10
CHIPAULT, J R	P01HL08214-15 0010
CHITWOOD, W RANDOLP	P01HL07896-15 0059
CHOBANIAN, ARAM V	R01HL12869-09
CHOBANIAN, ARAM V	P50HL18318-03
CHOBANIAN, ARAM V	P50HL18318-03 0001
CHOBANIAN, ARAM V	P50HL18318-03 0011
CHOBANIAN, ARAM V	P50HL18318-03 0014
CHOU, CHING-CHUNG	R01HL15231-05
CHRISTAKIS, GEORGE	N01HV42933-09
CHRISTIAN, EMILY	P60HL15996-06 0005
CHUANG, HANSON Y	R01HL22585-01
CHVAPIL, MILOS	R01HL19633-02
CHYTIL, FRANK	P50HL14214-07 0023
CHYTIL, FRANK	R01HL15341-06
CIFONELLI, J ANTHON	R01HL19820-02
CLARK, JAMES M	P01HL08899-14 0035
CLARK, JAMES M	P01HL08899-14 0036
CLARK, JAMES M	P01HL08899-14 0042
CLARK, JAMES M	P01HL08899-14 0055
CLARK, JAMES M	P01HL08899-14 0056
CLARK, JAMES M	P01HL08899-14 0057
CLARK, JAMES M	R01HL22259-01
CLARK, JEFFREY N	R23HL21369-02
CLARK, JUSTIN S	R01HL20351-02
CLARK, LELAND C, JR	R01HL19083-02
CLARK, MARGARET R	P60HL20985-01 0004
CLARK, RICHARD E	R01HL13803-07
CLARKE, STEVEN D	R01HL23159-01
CLARKSON, THOMAS B	P50HL14164-07
CLARKSON, THOMAS B	P50HL14164-07 0027
CLARKSON, THOMAS B	P50HL14164-07 0028
CLARKSON, THOMAS B	P50HL14164-07 0032
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CLARKSON, THOMAS B	N01HV53029-04
CLARKSON, THOMAS B	N01HV72978-02
CLAYTON, PAUL D	P01HL04664-18 0014
CLAYTON, PAUL D	P01HL04664-18 0015
CLAYTON, PAUL D	R01HL21785-01
CLEMENTS, JOHN A	P01HL06285-18 0208
CLEMENTS, JOHN A	P50HL19185-02
CLEVELAND, WILLIAM	P50HL14141-05 0007
CLYDE, WALLACE A, J	P50HL19171-02
CLYDE, WALLACE A, J	P50HL19171-02 0006
CLYMAN, RONALD I	R23HL21409-02
COBB, FREDERICK R	P50HL17670-04 0020
COBB, FREDERICK R	R01HL18537-04
COBB, LEONARD A	R01HL18805-04 0004
COBURN, RONALD F	P50HL15061-07 0005
COBURN, RONALD F	P01HL19737-02 0009
COCHRANE, CHARLES G	P01HL16411-04 0002
COELHO, ANTHONY M	P50HL19362-02 0014
COFFMAN, JAY D	R01HL13654-08
COFFMAN, JAY D	R01HL18467-03
COGHAN, H CECIL	P01HL11310-12 0082
COHEN, ALLAN B	P01HL20994-02 0001
COHEN, ALLAN B	P01HL20994-02 0004
COHEN, BERNICE H	P50HL14153-07 0001
COHEN, CHARLES J	P01HL20592-02 0003
COHEN, DAVID	R01HL17543-03
COHEN, DAVID	R01HL17543-03 0002
COHEN, DAVID	R01HL17543-03 0003
COHEN, HOWARD C	P50HL17648-04 0016
COHEN, IRA S	R01HL20558-02
COHEN, ISAAC	R01HL20106-02
COHEN, JOEL A	P01HL16607-05 0001
COHEN, JORDAN J	R01HL00759-29
COHEN, JORDAN J	R01HL15810-06
COHEN, JULES	R01HL18328-03
COHEN, LOUIS	P50HL17648-04 0023
COHEN, MICHAEL V	R01HL17809-04
COHEN, MORTON I	R01HL20800-17
COHEN, WILLIAM D	R01HL20902-02
COHN, JAY N	R01HL18020-04
COHN, JAY N	R01HL22977-01
COHN, LAWRENCE H	R01HL21786-01
COLACICCO, GIUSEPPE	P01HL16137-05 0001
COLE, EDMOND R	R01HL15817-06
COLE, JAMES S	R01HL20630-03
COLEMAN, THOMAS G	P01HL11678-11 0058
COLEMAN, THOMAS G	P01HL11678-11 0068
COLEMAN, THOMAS G	P01HL11678-11 9001
COLERIDGE, JOHN C G	P01HL06285-18 0180
COLGAN, FRANK J	R01HL09609-11

COLLER, BARRY S	R01HL19278-03
COLLIER, ALBERT M	P50HL19171-02 0001
COLLIER, ALBERT M	P50HL19171-02 0008
COLLINS, FRANK M	R01HL19774-03
COLLINS, JOHN	P01HL22619-01 0002
COLMAN, ROBERT W	R01HL16642-05
COLMAN, ROBERT W	P01HL18827-02
COLMAN, ROBERT W	P01HL18827-02 0005
COLMAN, ROBERT W	P01HL18827-02 0007
COLTON, CLARK K	R01HL21429-02
COLWELL, WILLIAM T	R01HL19066-03
COMSTOCK, GEORGE W	R01HL19073-02
CONDORELLI, SALVATO	P01HL16137-05 0013
CONGER, JOHN D	R01HL18097-04
CONNOR, WILLIAM E	R01HL20910-02
CONRAD, H EDWARD	R01HL21763-09
CONRAD, MARCEL E	P01HL11310-12 0095
CONRAD, MARCEL E	R01HL20856-02
CONRAD, MARGARET C	R01HL21034-01
COOK, JAMES M	R01HL17897-03
COOPER, ALLEN D	R01HL05360-19
COOPER, DAVID Y	P01HL08899-14 0062
COOPER, GEORGE, IV	R01HL21570-01
COOPER, STUART L	R01HL21001-01
CORDAY, ELIOT	R01HL14644-05
CORDAY, ELIOT	P50HL17651-04 0016
CORLEY, KARL C, JR	R01HL13454-08
CORNFIELD, JEROME	P50HL14236-05 0010
CORNFIELD, JEROME	R01HL15191-07
CORNWELL, DAVID G	R01HL11897-11
CORR, PETER B	R01HL21654-01
CORRIGAN, JAMES J,	R01HL21431-02
CORSON, SAMUEL A	R01HL20861-01
CORTNER, JEAN A	R01HL18723-03
CORYA, BETTY C	P01HL06308-18 0042
COSIMI, A BENEDICT	P01HL18646-03 0001
COSIMI, A BENEDICT	P01HL18646-03 0002
COSIMI, A BENEDICT	P01HL18646-03 0003
COSTILL, DAVID L	R01HL20408-03
COSTLOW, JOHN D	P01HL07896-15 0060
COTRAN, RAMZI	P01HL20552-02 9001
COTRAN, RAMZI S	P01HL06370-17
COTRAN, RAMZI S	P01HL22602-01
COTRAN, RAMZI S	P01HL22602-01 0003
COTTON, ERNEST K	R01HL15430-05
COTTON, ROBERT B	P50HL14214-07 0030
COTTON, ROBERT B	P50HL14214-07 0033
COTTON, ROBERT B	P50HL14214-07 0036
COULSON, LORNE R	R01HL19461-03
COUNTS, RICHARD B	P60HL17265-04 0002
COURTNEY, KENNETH R	R01HL21742-01
COVELL, JAMES W	P01HL12373-10 0001
COVELL, JAMES W	P01HL12373-10 0014
COVELL, JAMES W	P01HL12373-10 0015
COVELL, JAMES W	P50HL17682-04 0009
COVELL, JAMES W	P50HL17682-04 0013
COWLEY, ALLEN W, JR	P01HL11678-11 0027
COWLEY, ALLEN W, JR	P01HL11678-11 0069
COWLEY, ALLEN W, JR	P01HL11678-11 9002
COWLEY, ALLEN W, JR	R01HL14306-07
COX, EMMA	P60HL15996-06 0006
COX, ROBERT H	R01HL19256-03
CRAIGHEAD. JOHN E	P60HL17292-04 0005
CRAIGHEAD, JOHN E	P50HL14212-07 0011
CRAIGHEAD, JOHN E	P50HL14212-07 0012
CRAIGHEAD, JOHN E	P60HL17292-04
CRAIGHEAD, JOHN E	P60HL17292-04 0003
CRANDALL, EDWARD D	P01HL19737-02 0005
CRANDALL, EDWARD D	P01HL19737-02 0010
CRANEFIELD, PAUL F	R01HL14899-07
CRAPO, J D	P01HL07896-15 0039
CRAVALHO, ERNEST G	R01HL20219-02
CRAVEN, BRYAN M	R01HL20350-02
CRAWFORD, DONALD W	P50HL14138-05 0009
CRAWFORD, DONALD W	R01HL18969-02
CRAWFORD, DONALD W	R01HL21032-02
CREASY, ROBERT K	P01HL06285-18 0133
CREASY, ROBERT K	P01HL06285-18 0134
CREASY, ROBERT K	P01HL06285-18 0135
CREER, THOMAS	N01HR72972-01
CRIOUI, MICHAEL H	R01HL22255-01
CRITCHLOW, CATHY	P60HL17265-04 0001
CRONKITE, EUGENE P	R01HL15685-05
CROW, RICHARD S	R01HL21307-01
CROW, RICHARD S	N01HV72949-03
CROWELL, JACK W	P01HL11678-11 0043
CUGELL, DAVID W	N01HR62945-04
CUMMINGS, SUE C	R01HL15640-06
CUSANOVICH, MICHAEL	P01HL20984-02 0003
CUTILLETTA, ANTHONY	R01HL23626-01
D'ALESSIO, DONN J	R01HL18535-03
D'AOUST, BRIAN G	R01HL22406-01
D'AQUST, BRIAN G	R01HL22413-01
D'HOUST, BRIAN G	R01HL17503-03
DAGGETT, WILLARD M	R01HL12322-10
DAGGETT, WILLARD M	R01HL12777-09
DAGGETT, WILLARD M	P01HL18646-03 0008
DAHLEM, NANCY W	R01HL22065-01
DALEN, JAMES E	N01HV22979-07
DALLDORF, FREDERIC	P01HL06350-17 0019
DALMASSO, AGUSTIN P	R01HL15215-06
DALY, BENEDICT D T	N01HV82919-00
DAMIANO, VICTOR V	P01HL20994-02 9002
DAMMIN, GUSTAVE J	P01HL06370-17 0013
DANIEL, JAMES L	R23HL21128-02
DANIELS, A V	N01HV62911-04
DANILO, PETER, JR	R23HL21368-02
DANISHEFSKY, ISIDOR	R01HL16955-05
DANNENBERG, ARTHUR	P50HL14153-07 0004
DANTZKER, DAVID R	R01HL19449-03
DAOUD, ASSAAD S	P01HL20993-02 0006
DARLINGTON, GRETCHE	R01HL18876-03
DAUBENSPECK, JOHN A	R01HL19248-03
DAUBER, JAMES H	R23HL21134-02
DAVIDSON, EUGENE A	P50HL19190-02 0005
DAVIDSON, EZRA C	P60HL23282-01 0001
DAVIE, EARL W	R01HL16919-05
DAVIES, JOHN E	P60HL15999-05 0004
DAVIES, RICHARD O	P01HL08805-15 0046
DAVIES, ROBERT E	P01HL15835-06 0011
DAVIS, ALVIN E, III	R23HL22799-01
DAVIS, BRIAN	R23HL21150-02
DAVIS, GERALD S	P50HL14212-07 0006
DAVIS, GERALD S	P50HL14212-07 0014
DAVIS, HARRY L	P60HL15169-05 0015
DAVIS, JAMES M	P01HL07896-15 0052
DAVIS, JAMES O	R01HL10612-13
DAVIS, JAMES O	R01HL10612-13 0018
DAVIS, JAMES O	R01HL10612-13 0019
DAVIS, JAMES O	R01HL10612-13 0020
DAVIS, JAMES O	R01HL10612-13 0021
DAVIS, LARRY D	R01HL13375-09
DAWBER, THOMAS R	N01HV33106-06
DAWBER, THOMAS R	N01HV52971-06
DAWSON, ARTHUR D	R01HL10009-13
DAWSON, CHRISTOPHER	R01HL19298-03
DAWSON, CHRISTOPHER	R01HL19733-03
DAWSON, STANLEY V	P01HL14580-07 0002
DAWSON, STANLEY V	P50HL19170-02 0010
DE BAKEY, MICHAEL E	P60HL17269-04
DE DUVE, CHRISTIAN	R01HL18157-04
DE MELLO, WALMOR C	R01HL10897-12
DE SIMONE, JOSEPH	R01HL20920-01
DE VELLIS, JEAN S	R01HL18567-03
DEAN, RICHARD H	P50HL14192-08 0002
DEARBORN, DORR G	R01HL13885-08 0008
DEARBORN, DORR G	N01HR72920-01
DEBAKEY, MICHAEL E	P01HL13330-08
DEBAKEY, MICHAEL E	P01HL13330-08 0062
DEBAKEY, MICHAEL E	P60HL17269-04 0029
DEBAKEY, MICHAEL E	P60HL17269-04 0030
DEBAKEY, MICHAEL E	P60HL17269-04 0032
DEBAULT, LAWRENCE E	P50HL14230-07 9002
DEBUSK, ROBERT	R01HL17993-04 0004
DEBUSK, ROBERT F	R01HL18907-03
DECK, J DAVID	R01HL16935-05
DECLUE, JAMES W	P01HL11678-11 0034
DEFOUW, D	R01HL12879-09 0010
DEGIROLAMI, UMBERTO	R01HL21843-01
DEHAAN, ROBERT L	R01HL16567-04
DELIVORIA-PAPADOPUO	P01HL19737-02 0006
DELL, RALPH B	P50HL14218-07 0018
DELUCA, MARLENE A	P50HL17682-04 0010
DELUCA, MARLENE A	P50HL17682-04 0018
DELUCA, MARLENE A	P50HL17682-04 0023
DEMBROSKI, THEODORE	R01HL22809-01
DEMING, QUENTIN B	P50HL14236-05 0005
DEMLING, ROBERT H	R01HL21076-02
DEMPSEY, JEROME A	R01HL15469-06
DEMPSEY, JEROME A	R01HL20815-02
DEMPSEY, MARY E	R01HL08634-15
DENNY, FLOYD W	P50HL19171-02 0004
DENNY, FLOYD W	P50HL19171-02 0012
DEPALMA, RALPH G	R01HL16206-04
DEPP, RICHARD	N01HR62950-04
DEQUATTRO, VINCENT	P01HL20581-01 0006
DES PREZ, ROGER M	R01HL08399-15
DESFORGES, JANE F	P60HL15157-07 0012
DESIMONE, JOSEPH	P60HL15168-07 0003
DETITTA, GEORGE T	R01HL15378-06
DETRE, KATHERINE	R01HL19864-03 0002
DETRE, KATHERINE M	N01HI72947-01
DETWEILER, DAVID K	R01HL19091-02
DETWILER, THOMAS C	R01HL16355-05
DETWILER, THOMAS C	R01HL17729-04
DEUEL, THOMAS F	P50HL14147-08 0018
DEUEL, THOMAS F	R01HL22119-01
DEUTSCH, EDWARD A	R01HL21276-02
DEWEY, C FORBES, JR	R01HL21859-01
DEYKIN, DANIEL	P01HL13262-07 0022
DEYKIN, DANIEL	R01HL18586-03
DHARMARAJAN, VENKAT	P50HL15092-07 0010
DI BONA, GERALD F	P01HL14388-07 0192
DI BONA, GERALD F	P01HL14388-07 0222
DI FERRANTE, NICOLA	R01HL18692-03
DI FERRANTE, NICOLA	R01HL20447-03
DIAMOND, HERBERT S	P60HL15170-05 0019
DIANA, JOHN N	P01HL14388-07 0221
DIANA, JOHN N	R01HL23653-01
DIBONA, DONALD R	P01HL06664-17 0037
DIBONA, DONALD R	P01HL06664-17 0038
DIBONA, DONALD R	P01HL06664-17 0039
DIBONA, DONALD R	P01HL06664-17 0041
DICKERSON, JOSEPH D	R01HL20170-02
DIDISHEIM, PAUL	P01HL17430-05 0007
DIEDERICH, DENNIS	N01HB22919-08
DIETSCHY, JOHN M	R01HL09610-14
DIGERNESS, STANLEY	P01HL11310-12 0062
DIGGS, L W	P60HL15169-05 0017
DILLARD, DAVID H	R01HL19203-03
DILLON, JAMES C	P01HL06308-18 0043
DISALVO, JOSEPH	R01HL20196-02
DISALVO, JOSEPH	P01HL22619-01 0008
DIXON, JONATHAN S	R01HL21686-02
DOBRIN, PHILIP B	P01HL08682-15 0005
DOBSON, JAMES G, JR	R01HL18280-03
DOBSON, JAMES G, JR	R01HL22828-01
DODDS, W JEAN	R01HL09902-13
DODGE, HAROLD T	R01HL18805-04
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DOERSHUK, CARL F	R01HL13885-08 9001
DOMBROSE, FREDERICK	R01HL22771-01
DONALD, DAVID E	R01HL06143-18
DONALDSON, SUE K	R01HL23128-01
DONALDSON, VIRGINIA	R01HL15690-07
DONOHUE, DENNIS M	P60HL17265-04
DONOVAN, FRANK	P01HL13738-08 0001
DOOLITTLE, RUSSELL	P01HL18576-03
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DOOLITTLE, RUSSELL	P01HL18576-03 0016
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DORSEY, FRANK C	P60HL17292-04 0023
DOSIK, HARVEY	P60HL15170-05 0023
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DOUGLAS, JAMES S	R01HL20783-02
DOUGLAS, JANICE G	R01HL22990-01
DOUGLAS, STEVEN D	P01HL06314-17 0066
DOUGLAS, WILLIAM H	R01HL23969-01
DOWBEN, ROBERT M	R01HL16678-03
DOWBEN, ROBERT M	R01HL18272-03
DOWELL, RUSSELL T	R01HL23025-01
DOWNEY, H FRED	R01HL21657-01
DOWNEY, JAMES M	R01HL20648-01
DOWNING, S EVANS	R01HL08659-14
DOWNING, S EVANS	R01HL20401-03
DOYLE, JOSEPH T	R01HL16403-05
DRAZEN, JEFFREY	P01HL17382-05 0002
DRISCOLL, DAVID J	R23HL22309-01
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DU BOIS, ARTHUR B	R01HL17407-05
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DUKE, JOSEPH A	P01HL16683-04 0006
DUKES, PETER P	N01HB82926-00
DUKES, PETER P	R01HL10880-13
DULING, BRIAN	P01HL19242-02 0006
DULING, BRIAN R	R01HL12792-09
DUNHAM, EARL W	R01HL15447-06
DUNHAM, EARL W	P01HL17871-04 0010
DUNN, MICHAEL J	R01HL22563-02
DUPONT, JACQUELINE	R01HL23598-01
DURNEY, CARL H	R01HL20110-02
DUSTAN, HARRIET P	R01HL23201-01
DWYER, H JEFFREY	P01HL07896-15 0048
DYCKES, DOUGLAS F	R01HL19514-03
EARP, JO ANNE	R25HL18414-03
EATON, JOHN W	P01HL16833-04 0016
EATON, R PHILIP	R01HL12085-10
EBERHART, ROBERT C	P50HL17669-04 0012
EBERHART, ROBERT C	R01HL19173-03
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ECKBERG, DWAIN L	R01HL22296-01

ECKBERG, DWAIN L	R01HL22546-02
ECKBERG, DWAIN L	R01HL22581-02
ECKSTEIN, EUGENE C	R01HL22455-01
EDOLEMAN, E E	P01HL11310-12 0091
EDELMAN, ISIDORE S	P01HL06285-18 0193
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EDELMAN, NORMAN H	R01HL16022-05
EDER, HOWARD A	R01HL02965-22
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EDER, HOWARD A	P50HL14236-05 0006
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EDMONDS, S RANDOLPH	P60HL23282-01 0002
EDMUNDS, L HENRY, J	R01HL19055-03
EDWARDS, JESSE E	R01HL05694-20
EDWARDS, PETER A	R01HL19063-03
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EGGEN, DOUGLAS A	P01HL08974-14 0024
EHRHART, ALLEN	R01HL16588-05
EHRHART, L A	P01HL06835-17 0062
EHRIE, MICHAEL	P01HL06370-17 0016
EHRIE, MICHAEL	P01HL06370-17 0017
EHRLICH, KENNETH C	R01HL21617-02
EINZIG, STANLEY	R01HL18204-03
EISENBERG, ROBERT S	R01HL20230-02
EISENSTADT, MAURICE	R01HL17571-03
EISENSTEIN, REUBEN	R01HL18625-03
EISENTHAL, KENNETH	R01HL19488-03
EL-BERMANI, AL-WALI	R01HL20548-02
ELBAUM, DANEK	P01HL21016-02 0002
ELBAUM, DANEK	P01HL21016-02 0010
ELBEIN, ALAN D	R01HL17783-04
ELDER, S THOMAS	R01HL18823-02
ELDRIDGE, FREDERIC	R01HL17689-06
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ELLISON, ROBERT C	R01HL19922-03
ELZINGA, MARSHALL	R01HL21471-02
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EMANUEL, DEAN A	P50HL15389-07 0009
EMESON, EUGENE	P01HL17417-05 0003
ENGELMAN, DONALD M	R01HL14111-07
ENGLANDER, S WALTER	R01HL21757-01
ENGLE, MARY A	R01HL16246-06
ENNS, THEODORE	R01HL19008-02
ENSON, YALE	P01HL17813-04 0001
ENTMAN, MARK L	R01HL13870-09
ENTMAN, MARK L	P60HL17269-04 0019
ENTMAN, MARK L	R01HL23161-01
ENTMAN, MARK L	R01HL23161-01 0003
ERDOS, ERVIN G	P50HL14187-07 0014
ERDOS, ERVIN G	R01HL16320-05
ERDOS, ERVIN G	R01HL20594-02
ERECINSKA, MARIA	P01HL18708-03 0003
ERFURT, JOHN C	N01HV82913-00
ERICKSON, BRUCE W	R01HL19795-03
ERICKSON, JAMES R	R01HL21426-02
ERIKSEN, NILS	P01HL03174-23 0002
ERSLEV, ALLAN J	R01HL04612-20
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ESCHER, DORIS J	R01HL04666-19
ESKIN, S G	P01HL13330-08 0056
ESTENSEN, RICHARD D	P01HL06314-17 0052
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ETTINGER, PHILIP D	R01HL19398-03
EVANS, EVAN A	R01HL16711-05
EVANS, JOHN N	R23HL21539-02
EVANS, JOHN W	P01HL17731-04 0007
EVANS, JOHN W	P01HL17731-04 0012
EVANS, MICHAEL J	R01HL16330-06
EVANS, RICHARD I	P60HL17269-04 0042
EVANS, TITUS C	N01HV72928-04
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FABRICANT, CATHERIN	R01HL19381-03
FAIRBANKS, GRANT	R01HL19933-02
FAIRCHILD, BEATRICE	R01HL15293-07
FAIRCLOUGH, GORDON	R01HL21628-02
FALK, CATHERINE T	P01HL09011-15 0012
FALL, R RAY	R01HL16628-05
FALLAT, ROBERT J	R01HL14692-06
FALSETTI, HERMAN L	P01HL14388-07 0215
FALSETTI, HERMAN L	R01HL20829-02
FANBURG, BARRY L	R01HL06924-16
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FANBURG, BARRY L	R01HL20352-02
FARA, JOHN W	R01HL22561-01
FARBER, JAY P	R01HL23601-01
FARHI, LEON E	P01HL14414-07 0003
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FARMER, JOSEPH C, J	P01HL07896-15 0046
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FASCO, MICHAEL J	R01HL19772-02
FASS, DAVID N	P01HL17430-05 0002
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FAY, FREDRIC S	R01HL14523-07
FEENEY, ROBERT E	R01HL18619-03
FEIGENBAUM, HARVEY	P01HL06308-18 0012
FEIGENSON, GERALD W	R01HL18255-04
FEIGL, ERIC O	P01HL16910-05 0002
FEINMAN, RICHARD D	R01HL14992-07
FEINSTEIN, MAURICE	R01HL18937-03
FELDMAN, CHARLES H	N01HR72973-01
FELDMAN, ELAINE B	R01HL18636-02
FELDMAN, HENRY A	R23HL21855-01
FELDMAN, STUART	R01HL21476-02
FELTS, JAMES M	P01HL06285-18 0204
FENTON, JOHN W, II	R01HL13160-08
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FERNALD, GERALD W	P50HL19171-02 0007
FERNALD, GERALD W	P50HL19171-02 0011
FERNANDEZ, SALVADOR	R01HL23013-01
FERRARIO, CARLOS M	P01HL06835-17 0040
FERRARIO, CARLOS M	P01HL06835-17 0060
FERRIERI, PATRICIA	P01HL06314-17 0060
FERRIS, THOMAS F	R01HL23602-01
FERTEL, RICHARD H	R01HL19062-03
FIALA, MILAN	P60HL23282-01 0004
FIELDING, CHRISTOPH	P50HL14237-07 0002
FIELDING, CHRISTOPH	R01HL18705-03
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FILKINS, JAMES P	P01HL08682-15 0020
FILKINS, JAMES P	P01HL08682-15 0021
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FINK, B RAYMOND	R01HL19975-02
FINK, JORDAN N	P50HL15389-07
FINLAY, THOMAS H	P01HL15596-05 0014
FINLAY, THOMAS H	P01HL15596-05 0017
FISCH, CHARLES	P01HL06308-18
FISCHER, GRACE M	R01HL17721-04
FISCHER, GRACE M	R01HL19252-02
FISCHMAN, DONALD A	P50HL17648-04 0026
FISH, ALFRED J	P01HL06314-17 0063
FISH, WAYNE W	R01HL19491-03
FISHBEIN, MICHAEL C	P01HL06370-17 0014
FISHER, ARON B	R01HL15013-07
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FISHER, EDWIN B, JR	R01HL22472-01
FISHER, JAMES W	R01HL21701-02
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FISHMAN, ALFRED P	P50HL15061-07
FITZ, ANNETTE	P01HL14388-07 0223
FITZ, ANNETTE E	R01HL12684-09
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FITZGERALD, ROBERT	P01HL10342-13 0026
FITZGERALD, ROBERT	P01HL10342-13 0027
FIXLER, DAVID E	R01HL18456-03
FLAHERTY, JOHN T	P50HL17655-04 0014
FLETCHER, ANTHONY P	R01HL20218-02
FLETCHER, DOROTHY	P01HL08899-14 0045
FLETCHER, DOROTHY	P01HL08899-14 0052
FLETCHER, DOROTHY	P01HL08899-14 0066
FLORENTIN, RODOLFO	P01HL20993-02 0011
FLORINI, JAMES R	R01HL11551-11
FLOWERS, NANCY C	R01HL19768-02
FOGELMAN, ALAN M	R01HL20807-02
FOGELMAN, ALAN M	R01HL22474-01
FOLKERS, KARL	R01HL18993-03
FOLTS, JOHN D	R01HL15681-06
FORD, LINCOLN E	P01HL20592-02 0012
FORD, LINCOLN E	P01HL20592-02 0013
FOREMAN, ROBERT D	R01HL22732-01
FOREYT, JOHN P	P60HL17269-04 0043
FORGET, BERNARD G	R01HL20922-02
FORSMAN, WILLIAM C	R01HL15155-05
FORSTER, FRED	P01HL07293-17 0049
FORSTER, FRED	P01HL07293-17 0050
FORSTER, FRED	P01HL07293-17 0057
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FORSTER, ROBERT E	P01HL19737-02 0008
FORSTER, ROBERT E	P01HL19737-02 0015
FORSTER, ROY P	R01HL04457-20
FORSYTH, RALPH P	R01HL19204-03
FORTE, GERTRUDE M	P01HL18574-03 0004
FORTES, P A	R01HL20262-02
FORTUIN, NICHOLAS J	R01HL19232-03
FOSTER, JUDITH	P01HL13262-07 0023
FOSTER, JUDITH A	R01HL22208-02
FOX, ARTHUR C	R01HL16412-04
FOX, IRWIN J	R01HL18024-03
FOX, MARTIN	N01HV72929-01
FOZZARD, HARRY A	P50HL17648-04 0028
FOZZARD, HARRY A	P01HL20592-02
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FRANK, CHARLES	P50HL14236-05 0007
FRANKEL, HARRY M	R01HL17352-03
FRANKLIN, DEAN	P01HL12373-10 0019
FRANKLIN, DEAN	P01HL22619-01 9001
FRANKLIN, DEAN L	P50HL17682-04 0014
FRANKLIN, THOMAS D,	R01HL20869-01
FRANSON, RICHARD C	R23HL21116-02
FRANTZ, IVAN D, JR	N01HV22915-11
FRANZBLAU, CARL	P01HL19717-02 0045
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FRANZBLAU, CARL	R01HL23542-01
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FRAZIER, DONALD T	P01HL16878-05 0003
FREDBERG, JEFFREY J	N01HR62901-04
FREDERIKSEN, DIXIE	R01HL18516-03
FREDRICKS, WALTER W	P50HL15389-07 0014
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FREED, PAUL S	P01HL13737-07 0013
FREED, PAUL S	P01HL13737-07 0024
FREEDMAN, J C	R01HL09906-13 0019
FREEDMAN, J C	R01HL09906-13 0020
FREER, RICHARD J	R01HL19653-03
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FREGA, NORBERTO	P01HL06664-17 0010
FREGLY, MELVIN J	R01HL14526-07
FREIMAN, DAVID G	P01HL11414-11 0036
FREIMER, EARL H	R01HL19234-03
FREUNDLICH, IRWIN M	P50HL14136-07 0005
FRIED, WALTER	P60HL16005-05 0022
FRIEDMAN, GARY D	R01HL21971-01
FRIEDMAN, HAROLD L	R01HL16474-05
FRIEDMAN, JULIUS J	R01HL16094-06
FRIEDMAN, JULIUS J	R01HL19674-02
FRIEDMAN, MEYER	R01HL21427-02
FRIEDMAN, MITCHELL	R23HL21168-01
FRIEDMAN, MORTON H	R01HL21270-01
FRIEDMAN, PAUL A	P01HL11414-11 0033
FRIEDMAN, PAUL A	P01HL11414-11 0035
FRIEDMAN, WILLIAM F	P01HL12373-10 0005
FRITZ, KATHERINE E	P01HL20993-02 0007
FROHLICH, EDWARD D	R01HL20572-02
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FROHLICH, EDWARD D	R01HL20572-02 0007
FROHLICH, EDWARD D	R01HL20572-02 0008
FROHLICH, EDWARD D	R01HL22506-01
FROLICH, JURGEN C	P50HL14192-08 0003
FRONEK, ARNOST	R01HL12690-09
FRONEK, ARNOST	R01HL18977-03
FRONEK, KITTY	R01HL16768-04
FRONEK, KITTY	R01HL20564-02
FROSOLONO, MICHAEL	P01HL16137-05 0004
FROSOLONO, MICHAEL	R01HL19010-03
FROST, PHILIP	P60HL16008-06 0019
FROST, PHILIP H	R01HL10445-09
FRYE, ROBERT C	N01HV32984-10
FUCHS, JAMES C	R01HL17369-04
FUHR, JOSEPH E	R01HL23736-04
FUHRMAN, FREDERICK	R01HL22201-01
FULGINITI, VINCENT	P50HL14136-07 0003
FULLER, ELLEN D	R01HL16420-02
FULLER, GEORGE C	R01HL16904-03
FULLER, GERALD M	R01HL16445-05
FULLERTON, DWIGHT S	R01HL21457-01
FUNG, HO-LEUNG	R01HL22273-01
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FUNG, YUAN-CHENG B	P01HL17731-04 0002
FURCHGOTT, ROBERT F	R01HL21860-18
FURIE, BARBARA C	R01HL18834-04
FURIE, BRUCE	R01HL21543-02
FUSTER, VALENTIN	R01HL19001-03
GABBAY, KENNETH H	R01HL20539-03

GABUZDA, THOMAS G	R01HL16654-06
GAENSLER, EDWARD A	R01HL17543-03 0001
GAENSLER, EDWARD A	P01HL19717-02 0038
GAENSLER, EDWARD A	P01HL19717-02 0039
GAENSLER, EDWARD A	P01HL19717-02 0040
GAENSLER, EDWARD A	P01HL19717-02 0041
GAENSLER, EDWARD A	P01HL19717-02 0043
GAENSLER, EDWARD A	P01HL19717-02 0046
GALANAKIS, DENNIS	P01HL17419-04 0003
GALDSTON, MORTON	R01HL14700-05
GALE, ROBERT P	N01HB62971-03
GALLA, JOHN H	R01HL18923-02
GALLAGHER, JOHN J	R01HL15190-07
GALLAGHER, JOHN J	P50HL17670-04 0008
GALLETTI, PIERRE M	R01HL11945-10
GALLIE, THOMAS M	P01HL11307-12 9001
GALLOP, PAUL M	R01HL20764-02
GALOSY, RICHARD A	R01HL19257-03
GALPER, JONAS B	R23HL22775-01
GAMBAL, DAVID	R01HL19399-02
GAMBLE, WALTER J	P01HL10436-13 0002
GANGULY, PANKAJ	R01HL16720-02
GANOTE, CHARLES E	R01HL19000-03
GANZ, WILLIAM	P50HL17651-04 0002
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GANZ, WILLIAM	P50HL17651-04 0037
GANZ, WILLIAM	P50HL17651-04 0038
GANZ, WILLIAM	P50HL17651-04 0047
GARANCIS, JOHN	P50HL15389-07 0018
GARCIA-PALMIERI, MA	N01HV42902-08
GARD, ELIZABETH	N01HV53031-04
GARDNER, RICHARD A	R01HL18321-03
GARFINKEL, DAVID	R01HL15622-05
GARRICK, R A	R01HL12879-09 0011
GARTNER, THEODORE K	R01HL23010-01
GARVER, FREDERICK A	P60HL15158-07 0020
GARYN, WILNER	N01HV72955-02
GASIC, GABRIEL J	P01HL18827-02 0003
GATZY, JOHN T, JR	R01HL16674-05
GAUMER, H RICHARD	P50HL15092-07 0008
GAUNTT, CHARLES J	R01HL21047-01
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GAVRAS, HARALAMBOS	P50HL18318-03 0019
GAZES, PETER C	N01HV82909-02
GEBBER, GERARD L	R01HL13187-09
GEDDES, LESLIE A	R01HL18947-02
GEE, J BERNARD	R01HL19237-03
GEE, MARLYS H	R01HL22911-01
GEHA, ALEXANDER S	R01HL19182-03
GEIS, W PETER	P01HL08682-15 0033
GELBAND, HENRY	R01HL19930-03
GELFAND, ROBERT	P01HL08899-14 0024
GELFAND, ROBERT	P01HL08899-14 0030
GELFAND, ROBERT	P01HL08899-14 0031
GELFAND, ROBERT	P01HL08899-14 0032
GELFAND, ROBERT	P01HL08899-14 0033
GELFAND, ROBERT	P01HL08899-14 0034
GELFAND, ROBERT	P01HL08899-14 0041
GENGOZIAN, NAZARETH	R01HL16757-04
GENNIS, ROBERT B	R01HL16101-05
GEORGE, JAMES N	R01HL19996-02
GERALD, PARK S	P01HL10436-13 0016
GERATZ, J DIETER	R01HL21540-02
GERGELY, JOHN	R01HL05949-18
GERGELY, JOHN	R13HL23072-01
GERMAN, JAMES	P01HL09011-15 0010
GERRITY, ROSS G	R01HL21438-02
GERTNER, SHELDON B	R01HL18607-03
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GETTES, LEONARD S	R01HL23624-01
GETZ, GODFREY	P50HL17648-04 0027
GETZ, GODFREY S	P50HL15062-07 0009
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GEYER, ROBERT P	R01HL15646-03
GEYER, ROBERT P	R01HL17844-04
GHOSH, SANTIBRATA	R01HL16419-03
GHOSH, SANTIBRATA	R01HL18004-02
GIACHETTI, ANTONIO	R01HL20446-02
GIARDINA, ELSA GRAC	P01HL12738-10 0001
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GIBLETT, ELOISE R	P60HL17265-04 0008
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GIESE, WARREN K	N01HV42932-05
GIL, JOAN	R01HL22463-02
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GILBERT, ENID F	R01HL18050-04
GILES, WAYNE R	R01HL22426-01
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GILLIS, CHARLES N	R01HL13315-08
GILLIS, CHARLES N	R01HL23245-01
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GILULA, NORTON B	R01HL16507-04
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GIMBRONE, MICHAEL A	P01HL22602-01 9002
GIRI, SHRI N	R01HL19720-03
GITLOW, STANLEY E	R01HL12648-09
GLAESER, DONALD H	P60HL17269-04 0031
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GLAGOV, SEYMOUR	P50HL17648-04 0013
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GLASS, DAVID C	R01HL22514-01
GLASS, RICHARD S	R01HL15104-07
GLASSMAN, EPHRAIM	N01HV32976-09
GLAUSER, FREDERICK	R01HL22435-02
GLEISNER, JOHN M	R01HL21095-02
GLENN, WILLIAM W	R01HL04651-19
GLEW, ROBERT H	R01HL20547-02
GLEZEN, WILLIAM P	R01HL19651-03
GLOMSET, JOHN A	R01HL10642-18
GODLEY, ALEGRO J	R01HL22380-01
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GOERKE, R JON, III	P01HL06285-18 0210
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GOETZL, EDWARD J	R01HL19777-03
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GOLD, HERMAN K	P50HL17665-04 0005
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GOLD, WARREN M	P50HL19156-02 0004
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GOLDBERG, BURTON D	R01HL17551-04
GOLDBERG, MARTIN	R01HL00340-29
GOLDBERG, MORTON F	P60HL15168-07 0005
GOLDBERG, NELSON	P01HL06314-17 0053
GOLDE, DAVID W	R01HL20675-02
GOLDFARB, ROY D	R01HL19977-02
GOLDFISCHER, SIDNEY	R01HL21756-11
GOLDINGER, J M	R01HL09906-13 0025
GOLDMAN, MICHAEL D	P01HL14580-07 0003
GOLDRING, DAVID	R01HL21578-01
GOLDSTEIN, BERNARD	R01HL18163-04
GOLDSTEIN, GARY W	R01HL22088-02
GOLDSTEIN, JOSEPH L	P01HL20948-02 0004
GOLDSTEIN, JOSEPH L	P01HL20948-02 9001
GOLDSTEIN, MARGARET	P60HL17269-04 0021
GOLDSTEIN, MARGARET	R01HL17376-04
GOLDSTEIN, MARGARET	R01HL23161-01 0004
GOLDSTEIN, SIDNEY	R01HL18800-04
GOLDSTICK, THOMAS K	R01HL17517-03
GOLDWASSER, EUGENE	P60HL16005-05 0013
GOLDWASSER, EUGENE	R01HL21676-02
GOLL, DARREL E	P01HL20984-02 0004
GOLLNICK, PHILIP D	R01HL18527-03
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GONNERMAN, WAYNE	P01HL19717-02 0002
GOODFRIEND, THEODOR	R01HL19836-03
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GOODMAN, DEWITT S	P50HL21006-02 0003
GOODMAN, DEWITT S	P50HL21006-02 0004
GOODMAN, MURRAY	P01HL18576-03 0003
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GOOTMAN, PHYLLIS M	R01HL20864-01
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GORIN, ARNOLD B	P50HL19155-02 0002
GORRY, G ANTHONY	R01HL21052-01
GOSPODAROWICZ, DENI	R01HL20197-02
GOSSELIN, ARTHUR J	N01HV32979-09
GOTSHALL, ROBERT W	R23HL21382-02
GOTT, VINCENT L	R01HL19414-03
GOTTSCHALK, CARL W	R01HL02334-23
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GRAHAM, JOHN B	P01HL06350-17 0015
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GRAHAM, WILLIAM G	P50HL14212-07 0001
GRAHAM, WILLIAM G	R01HL21117-01
GRAMBSCH, P VICTOR	N01HV62941-01
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GRAMIAK, RAYMOND	R01HL16260-04
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GRANT, MARGARET M	R23HL19584-01
GRAUSZ, JOHN P	R01HL22636-01
GRAY, BEULAH H	P01HL06314-17 0046
GRAY, ERNEST D	P01HL06314-17 0057
GRAY, MARY E	P50HL14214-07 0022
GRAY, RICHARD	P50HL17651-04 0032
GRAY, RICHARD	P50HL17651-04 0044
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GREEN, LAWRENCE W	R18HL22934-01
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GREENBERG, MICHAEL	R01HL09283-14
GREENBERG, STANLEY	R01HL22177-02
GREENBERG, STANLEY	R01HL22216-02
GREENE, DAVID G	P01HL15194-07 0020
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GREENFIELD, JOSEPH	P50HL17670-04 0005
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GREER, JONATHAN	R01HL16601-05
GREGA, GEORGE J	R01HL12421-10
GREGORY, JOHN J	N01HV72964-02
GREISS, FRANK C, JR	R01HL03941-18
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GREKIN, ROGER J	P01HL18575-03 0011
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GRIFFIN, PAUL M	N01HV52966-01
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GRODINS, FRED S	R01HL16390-05
GROSS, IAN	R01HL19752-03
GROSS, JOSEPH F	P01HL17421-05 0001
GROSS, JOSEPH F	P01HL17421-05 0002
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GROSSMAN, WILLIAM	R01HL19246-03
GROVER-JOHNSON, NIC	R01HL20400-03
GROVER, JOHN	N01HV82905-02
GROVER, ROBERT F	P01HL14985-07
GROVER, ROBERT F	P01HL14985-07 0002
GROVER, ROBERT F	P01HL14985-07 0015
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GRUENSTEIN, ERIC I	R01HL18553-03
GRUMET, F CARL	P01HL13108-09 0009
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GRUNDY, SCOTT M	P50HL14197-07 0007
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GRUPPO, RALPH A	P60HL15996-06 0010
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GUNN, ROBERT B	R01HL20365-03
GUNN, ROBERT B	R01HL20725-02
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GURD, FRANK R	R01HL14680-07
GUREWICH, VICTOR	R01HL21548-01
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GUTHRIE, HELEN A	R01HL18712-03
GUTHRIE, ROBERT D	P50HL19187-02 0010
GUTNISKY, ABRAHAM	R01HL16675-05
GUTSTEIN, WILLIAM H	R01HL18085-03
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HAAS, ERWIN	R01HL17947-04
HABAL, SALEM	P01HL12738-10 0122
HABER, EDGAR	P50HL17665-04
HABER, EDGAR	P01HL19259-03
HABER, EDGAR	P01HL19259-03 0003
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HACKEL, DONALD B	P01HL07896-15 0054
HACKEL, DONALD B	P50HL17670-04 0016
HACKETT, THOMAS P	R01HL19567-03
HADDY, FRANCIS J	R01HL21525-02
HAGEN, PER-OTTO F	R01HL15448-06
HALASZ, NICHOLAS A	R01HL17944-03

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HALL, JOHN E	P01HL11678-11 0063
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HALPERN, WILLIAM	R01HL17335-05
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HAMOSH, MARGIT	R01HL19056-03
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HAMOUDA, FAROUK A	P01HL13737-07 0038
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HAN, JAOK	R01HL18796-04
HANAHAN, OONALO J	R01HL18852-03
HANCE, ALLAN J	R23HL22383-01
HANOIN, ROBERT I	R01HL17513-04
HANSEN, TIMOTHY R	R01HL19226-03
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HARAKAL, CONCETTA	P50HL14217-08 0061
HARBURY, CHRISTINA	P01HL13108-09 0014
HARBURY, CHRISTINA	R01HL17930-03
HARDEN, T KENOALL	R23HL22490-01
HARDIN, JAMES	R01HL22367-01
HARDMAN, HAROLO F	R01HL08311-14
HARDY, JANET B	N01HR62934-02
HARDY, ROBERT J	R01HL20244-02
HARELL, GEORGE S	R01HL20943-02
HARING, OLGA M	N01HV72963-02
HARKEN, ALDEN H	R01HL22315-01
HARKER, LAURENCE	P01HL22163-01 0003
HARKER, LAURENCE A	R01HL11775-11
HARKER, LAURENCE A	P01HL18645-03 0006
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HARKNESS, OONALD R	P60HL15999-05 0005
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HARPEL, PETER C	P50HL18828-03 0003
HARPER, ELVIN	P01HL18576-03 0004
HARPER, ELVIN	P01HL18576-03 0011
HARPER, PAUL V	P50HL17648-04 0004
HARPER, RONALO M	R01HL22418-01
HARRINGTON, JOHN	P01HL21016-02 0004
HARRIS, ALAN H	R01HL17958-04
HARRIS, OANIEL C	R01HL20141-02
HARRIS, HERMAN F	P60HL15158-07 0010
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HARRIS, PATRICK O	R01HL12614-09
HARRIS, THOMAS R	P50HL19153-02 0004
HARRIS, THOMAS R	P50HL19153-02 0005
HARRIS, THOMAS R	P50HL19153-02 0008
HARRIS, THOMAS R	R01HL19370-03
HARRIS, WILLIAM H	R01HL18738-02
HARRISON, CARLOS E,	R01HL12997-07
HARRISON, OAVID E	R01HL16119-05
HARRISON, DONALO C	R01HL21221-02
HARRISON, JOHN H	R01HL12585-10
HARRISON, TIMOTHY S	R01HL18995-04
HARRISON, WALTER K	R01HL20373-02
HARRISON, WALTER K	R01HL20374-03
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HARTLEY, CRAIG J	R01HL22512-01
HARTLEY, L HOWARD	P01HL10539-12 0064
HARTLEY, LOREN H	R01HL20187-01
HARTMANN, ROBERT C	R01HL18012-04
HARTSHORNE, OAVIO J	R01HL09544-12
HARTSHORNE, DAVID J	R01HL23615-01
HARTZELL, CHARLES R	R01HL17559-03
HARTZELL, HARRISON	R01HL21195-02
HARVATH, LIANA	R23HL21212-02
HARVEY, REJANE M	P01HL17813-04
HARVIE, NANCY R	R01HL17567-03
HARWIG, JOHN F	R01HL21273-02
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HASHIMOTO, SAM	R01HL03734-18
HASS, LOUIS F	R01HL16647-05
HATCHER, VICTOR	P01HL16387-04 0004
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HATHAWAY, WILLIAM E	R01HL18507-03
HATHAWAY, WILLIAM E	R01HL20337-02
HAUBOLO, A D	N01HV42928-07
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HAVEL, RICHARD J	P50HL14237-07 0001
HAVEL, RICHARD J	P50HL14237-07 0005
HAVEL, RICHARD J	P50HL14237-07 0007
HAWIGER, JACK J	R01HL16646-05
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HAWKINS, MORTON C	N01HV72948-03
HAWKRIDGE, FRED M	R01HL22821-01
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HAYES, KENNETH C	R01HL15797-05
HAYES, ROBERT G	R01HL13651-07
HAYNES, OUNCAN	P01HL16117-05 0003
HAYNES, OUNCAN H	R01HL23392-01
HAYWOOO, L JULIAN	P60HL15162-07
HAYWOOO, L JULIAN	P60HL15162-07 0007
HAYWOOO, L JULIAN	N01HV72970-04
HAZZARO, WILLIAM R	P01HL18645-03 0007
HAZZARO, WILLIAM R	R01HL22607-01
HEADINGS, VERLE E	P60HL15160-07 0013
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HEBBEL, ROBERT P	R23HL22621-01
HEBERT, LEE A	R01HL13323-08
HEFNER, LLOYD L	P01HL11310-12 0085
HEFNER, LLOYD L	P01HL11310-12 0086
HEGYVARY, CSABA	R01HL16611-04
HEINEMAN, HENRY O	P01HL15832-06 0011
HEINEMANN, HENRY O	R01HL13921-07
HEINRIKSON, ROBERT	P01HL18577-03 0004
HEINRIKSON, ROBERT	P01HL18577-03 0011
HEISE, EUGENE R	P01HL16769-05 0007
HEISTAD, OONALO O	P01HL14388-07 0180
HEISTAD, DONALO O	P01HL14388-07 0231
HEISTAO, DONALO O	P01HL14388-07 0232
HEISTAO, OONALO D	R01HL16066-05
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HELLER, PAUL	P60HL15168-07 0002
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HELLUMS, JESSE O	R01HL19824-02
HEMENWAY, OAVIO	P50HL14212-07 0015
HEMMINGSEN, EOVARO	R01HL16855-03
HEMPEL, F G	P01HL07896-15 0051
HEMPEL, FRANK G	P01HL07896-15 0032
HENORICKSON, DAVID	R01HL13652-08
HENRY, JAMES P	R01HL17706-04
HENRY, PHILIP O	P50HL17646-04 0004
HENRY, PHILIP O	P50HL17646-04 0014
HENRY, PHILIP O	R01HL21187-01
HENSON, PETER M	R01HL21565-02
HEPTINSTALL, ROBERT	R01HL07835-17
HEPTINSTALL, ROBERT	R01HL18473-04
HERD, JAMES A	R01HL09154-14
HERO, JAMES A	R01HL20364-01
HERO, JAMES A	N01HV72980-02
HERLIHY, JEREMIAH T	R01HL19082-01
HERMAN, GABOR T	R01HL18968-03
HERMANS, JAN	R01HL20319-02
HERMSMEYER, KENT	P01HL14388-07 0168
HERMSMEYER, KENT	P01HL14388-07 0179
HERMSMEYER, R KENT	R01HL16328-06
HERSCOWITZ, HERBERT	P01HL16748-05 0002
HERZIG, GEOFFREY P	N01HB62970-02
HESS, MARILYN E	R01HL16436-04
HESSEL, S J	R01HL20895-03 0001
HESSEL, S J	R01HL20895-03 0004
HESSEL, S J	R01HL20895-03 0009
HEWITT, ROBERT L	R01HL15813-05
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HEYMANN, MICHAEL A	P01HL06285-18 0129
HEYMANN, MICHAEL A	P01HL06285-18 0130
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HIGGINS, MILLICENT	R01HL19962-03
HIGHTOWER, LAWRENCE	R01HL23588-01
HILAL, SAOEK K	R01HL15781-06
HILAL, SADEK K	R01HL20761-02
HILBERMAN, MARK	R01HL21210-01
HILDEBRANDT, JACOB	R01HL14854-07
HILDEBRANDT, JACOB	R01HL20773-02
HILDEBRANOT, JUOITH	R01HL13233-08
HILGARTNER, MARGARE	R01HL19898-03
HILL, ESTHER P	P01HL17731-04 0010
HILLER, F CHARLES	R01HL20024-03
HILLMAN, ROBERT S	P60HL17265-04 0010
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HINKLE, LAWRENCE E,	R01HL18776-04
HINKLE, PETER C	R01HL14483-08
HINSHAW, LERNER B	P01HL17812-04 0007
HIRKO, ROBERT J	R01HL19973-01
HIRSCH, LEROY J	R01HL15607-06
HIRSHFELO, JOHN W,	R01HL18683-03
HISKEY, RICHARO G	R01HL20161-02
HISS, ROLAND	N01HR62931-02
HISTAND, MICHAEL B	R01HL22326-01
HITCHCOCK, KAREN R	R01HL15316-07
HLASTALA, MICHAEL P	R01HL12174 11
HO, CHIEN	R01HL10383-12
HOAK, JOHN C	P50HL14230-07 0095
HOAK, JOHN C	P50HL14230-07 0096
HOAK, JOHN C	P50HL14230-07 0097
HOCHMUTH, ROBERT M	R01HL23900-01
HODGES, MORRISON	R01HL18190-03
HODGINS, LEONARO T	P01HL15596-05 0020
HODGKIN, BRIAN C	R01HL19486-03
HODGKIN, JOHN E	N01HR72904-03
HODSON, CECIL J	R01HL19791-02
HOOSON, WILLIAM A	P50HL19187-02
HODSON, WILLIAM A	P50HL19187-02 0001
HOEVE, CORNELIS A	R01HL18441-03
HOFF, HENRY F	P60HL17269-04 0048
HOFFMAN, ALLAN S	P01HL22163-01
HOFFMAN, BRIAN F	R01HL08508-15
HOFFMAN, BRIAN F	P01HL12738-10
HOFFMAN, BRIAN F	P01HL12738-10 0110
HOFFMAN, BRIAN F	P01HL12738-10 0128
HOFFMAN, BRIAN F	P01HL12738-10 0132
HOFFMAN, BRIAN M	R01HL13531-06
HOFFMAN, JOSEPH F	R01HL09906-13
HOFFMAN, JULIEN I	P01HL06285-18 0143
HOGAN, PERRY	P01HL15194-07 0004
HOGAN, PERRY M	P01HL14414-07 0010
HOGAN, PERRY M	R01HL16135-05
HOHN, ARNO R	R01HL19870-03
HOKIN, LOWELL E	R01HL16318-21
HOLDEN, OOROTHY M	P60HL15170-05 0001
HOLDEN, OOROTHY M	P60HL15170-05 0002
HOLDEN, DOROTHY M	P60HL15170-05 0003
HOLOEN, OOROTHY M	P60HL15170-05 0030
HOLL, JAMES E	R01HL22873-01
HOLLANDER, PHILIP B	R01HL20153-02
HOLLANDER, WILLIAM	P01HL13262-07
HOLLANDER, WILLIAM	P01HL13262-07 0011
HOLLANDER, WILLIAM	R01HL16437-05
HOLLENBERG, MILTON	P01HL06285-18 0179
HOLLENBERG, MILTON	R01HL22664-01
HOLLENBERG, NORMAN	R01HL14944-07
HOLLENBERG, NORMAN	R01HL20895-03 0010
HOLLIFIELO, JOHN W	P50HL14192-08 0005
HOLLIS, DONALD P	R01HL22080-01
HOLLIS, THEOOORE M	R01HL19830-02
HOLLIS, THEODORE M	R01HL20460-03
HOLLOSZY, JOHN O	R01HL22215-01
HOLLOWAY, CAROLINE	R01HL19936-02
HOLLOWAY, PETER W	P01HL19242-02 0002
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HOLMAN, B LEONARO	R01HL17739-04
HOLMAN, RALPH T	P01HL08214-15
HOLMAN, RALPH T	P01HL08214-15 0006
HOLMAN, RALPH T	R01HL21513-02
HOLMES OAVID R	P60HL17292-04 0024
HOLMES, WILLIAM L	N01HV33110-04
HOLMES, WILLIAM L	N01HV72958-02
HOLMSEN, HOLM	P50HL14217-08 0059
HOLT, JOHN H	P01HL11310-12 0093
HOLTZER, HOWARO	P01HL15835-06 0009
HOLTZER, HOWARD	P01HL18708-03 0007
HOLTZER, HOWARO	P01HL18708-03 0008
HOMSHER, EARL	P01HL11351-12 0006
HOMSHER, EARL E	P01HL11351-12 0021
HOMSHER, EARL E	P01HL11351-12 0024
HONDEGHEM, LUC M	R01HL21672-01
HONIG, CARL R	R01HL03290-22
HONIG, GEORGE R	P60HL15168-07 0010
HOOO, WILLIAM B, JR	R01HL14646-05
HOOD, WILLIAM B, JR	P50HL18318-03 0010
HOOD, WILLIAM B, JR	P50HL18318-03 0018
HOOO, WILLIAM P	P01HL11310-12 0081
HOOD, WILLIAM P	P50HL17667-04 0039
HOPEWELL, PHILLIP C	N01HR72906-03
HOPPIN, FREOERIC G	P01HL14580-07 0001
HOPPIN, FREDERIC G	P50HL19170-02 0006
HORAN, LEO G	R01HL16901-05
HORBETT, THOMAS A	R01HL19419-03
HORBETT, THOMAS A	P01HL22163-01 0001
HORNING, EVAN C	P60HL17269-04 0016
HOROWITZ, LEONARD N	R23HL21292-01
HOROWITZ, MARDI J	R01HL17580-04
HORRES, C R	P01HL12157-11 0056
HORTON, RICHARD	R01HL21112-02
HORWITZ, LAWRENCE O	R01HL16656-06
HOUGIE, CECIL	R01HL15230-05
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HOUGIE, CECIL	R01HL19272-03
HOUSTON, CHARLES S	R01HL14102-07
HOYER, LEON W	R01HL16626-05
HOYER, LEON W	R01HL16872-04

HDYT, RICHARD F, JR	R01HL19379-03
HRUBEC, ZDENEK	N01HV53010-03
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HSIA, SUNG L	R01HL20418-03
HUANG, PENG Y	R01HL09913-13
HUESTIS, WRAY H	R01HL18660-03
HUFFMAN, ANN	P60HL15996-06 0004
HUGGINS, CLYDE G	R01HL15567-05
HUGHES, HDWARD C	R01HL13988-07
HUGHES, MAYSIE J	R01HL16240-05
HUGHES, WALTER	P50HL19157-02 0011
HUGLI, TONY E	P01HL16411-04 0005
HUGLI, TDNY E	R01HL20220-03
HUISMAN, TITUS H	R01HL05168-19
HUISMAN, TITUS H	P60HL15158-07
HUISMAN, TITUS H J	P60HL15158-07 0008
HUISMAN, TITUS H J	P60HL15158-07 0016
HUISMAN, TITUS H J	P60HL15158-07 0028
HULL, FRANKLIN E	R01HL14730-07
HULLEY, STEPHEN B	N01HV22981-10
HUMPHREY, EDWARD W	R01HL18762-03
HUMPHREYS, MICHAEL	R01HL22482-01
HUMPHRIES, J ONEAL	P50HL17655-04 0004
HUNT, CHARLES	R01HL21416-02
HUNTLEY, THOMAS E	R01HL20411-03
HUNTSMAN, LEE L	R01HL16830-05
HUNTSMAN, LEE L	R01HL20613-02
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HUTCHINS, GROVER M	P50HL17655-04 0010
HUTCHINS, GROVER M	R01HL22963-01
HUTCHINS, PHILLIP M	R01HL13936-06
HUTCHISDN, VICTDR H	R01HL18082-03
HUTTER, ADOLPH M	P50HL17665-04 0013
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HUXTABLE, RYAN J	R01HL20087-02
HYATT, ROBERT E	P01HL21584-02
HYATT, ROBERT E	P01HL21584-02 0004
HYATT, ROBERT E	P01HL21584-02 0006
HYDE, RICHARD W	R01HL16784-03
HYMAN, ALBERT L	R01HL11802-10
HYMAN, MARTIN D	P50HL14236-05 0013
IBBOTT, FRANK A	N01HV72950-02
IBERS, JAMES A	R01HL13157-09
IMAI, HIDESHIGE	P01HL20993-02 0008
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IMPARATO, ANTHONY M	R01HL22784-01
INAGAMI, TADASHI	P50HL14192-08 0004
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INDYK, LEDNARD	P50HL14218-07 0013
INESI, GIUSEPPE	P01HL16607-05
INESI, GIUSEPPE	P01HL16607-05 0003
INGEBRETSEN, WILLIA	R01HL22064-02
INGELS, NEIL B, JR	R01HL17993-04
INGELS, NEIL B, JR	R01HL17993-04 0006
INGELS, NEIL B, JR	R01HL17993-04 0007
INGELS, NEIL B, JR	R01HL17993-04 0008
INGELS, NEIL B, JR	R01HL17993-04 0009
INGELS, NEIL B, JR	R01HL17993-04 0010
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INGRAM, F DUANE	P01HL14388-07 9003
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INGWALL, JDANNE S	R01HL22290-01
INNERARITY, THDMAS	N01HI32926-10
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INSULL, WILLIAM, JR	R01HL22847-01
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INTAGLIETTA, MARCOS	P01HL17421-05 0007
IRELAND, ROBERT E	R01HL21367-02
ISACSDN, PETER	P01HL14388-07 9004
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ITADA, NDBUTDMD	PD1HL19737-D2 D012
ITSKDVITZ, HARDLD D	RD1HL12677-10
IWAI, JUNICHI	RD1HL134D8-D5
IWAI, JUNICHI	R01HL14913-06
IYENGAR, M RAJA	PD1HL15835-06 0DD2
IYENGAR, MELKDTE R	RD1HL22538-D1
JACKSON, ANDREW C	RD1HL22178-01
JACKSDN, CARL W	RD1HL19270-03
JACKSDN, CRAIG M	R01HL12820-D9
JACKSDN, CRAIG M	P50HL14147-08 0003
JACKSDN, RICHARD	P01HL22619-01 0011
JACKSDN, RICHARD L	P60HL17269-04 0011
JACKSDN, ROBERT L	R01HL13632-08
JACKSDN, THDMAS E	P01HL11678-11 0D51
JACDB, HARRY S	PD1HL16833-04 0014
JACDB, HARRY S	R01HL19725-03
JACDBS, H KURT	P01HL08682-15 0031
JACOBS, JOHN E	R01HL17769-03
JACDBS, JDHN E	R01HL22604-01
JACOBSON, HDWARD N	N01HV42929-08
JACDBSTEIN, JEROME	R01HL21684-02 0001
JACDBUS, WILLIAM E	R01HL20658-01
JAEGER, RUDOLPH J	P50HL19170-02 0005
JAFFE, ERIC A	P50HL18828-03 0002
JAKAB, GEORGE J	R01HL22029-02
JAKSCHIK, SISTER BA	R01HL21874-01
JAMES, FREDERICK W	R01HL18454-03
JAMES, HAROLD	P01HL20994-02 9001
JAMES, L STANLEY	P50HL14218-07
JAMES, L STANLEY	P50HL14218-07 0011
JAMES, L STANLEY	P50HL14218-07 0012
JAMES, THDMAS N	P01HL11310-12
JAMES, THOMAS N	P01HL11310-12 0087
JAMES, THDMAS N	P01HL11310-12 0089
JAMES, THOMAS N	P01HL11310-12 0090
JAMES, THDMAS N	P01HL11310-12 9001
JAMES, THDMAS N	P01HL11310-12 9002
JAMES, THOMAS N	P50HL17667-04 0031
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JAMIESON, GRAHAM A	R01HL20971-10
JAN, KUNG-MING	P01HL16851-04 0008
JANDL, JAMES H	R01HL07652-14
JANIS, RDNALD A	R01HL21030-01
JANDFF, AARDN	R01HL14262-07
JANZ, RDNALD F	R01HL14651-05
JARMAKANI, JAY M	R01HL16329-04
JARVIK, ROBERT K	N01HV72975-02
JAVID, JAMSHID	R01HL19646-03
JELLINEK, MAX	P01HL06312-17 0032
JELLINEK, MAX	P01HL06312-17 0034
JELLINEK, MAX	P01HL06312-17 0046
JENG, INGMING	R01HL22983-01
JENKIN, HOWARD M	P01HL08214-15 0023
JENKINS, C DAVID	P50HL18318-03 0012
JENKINS, C DAVID	R01HL20637-02
JENNINGS, ROBERT B	P50HL17670-04 0023
JENNINGS, ROBERT B	R01HL23138-01
JENSEN, RICHARD A	R01HL19076-03
JENSEN, ROBERT G	R01HL16807-02
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JESSE, MARY JANE	P50HL14141-05 0001
JESTY, JDLYON	R01HL21113-01
JEW, JEAN Y	R23HL21914-01
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JOH, TONG H	P01HL18974-03 0009
JOH, TONG H	P01HL18974-03 0010
JOH, TONG H	P01HL18974-03 0011
JDH, TONG H	P01HL18974-03 0015
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JOHNSON, ALAN J	P01HL15596-05
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JOHNSON, ALAN J	P01HL15596-05 0016
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JOHNSDN, CARL L	R01HL22136-02
JDHNSDN, CHARLES E	P01HL07896-15 0036
JDHNSON, CHARLES E	R01HL19352-03
JDHNSDN, DALE E	R01HL21371-02
JDHNSDN, E A	P01HL11307-12 0003
JOHNSON, E A	P01HL12157-11 0037
JDHNSON, E A	P01HL12157-11 0049
JOHNSDN, E A	P01HL12157-11 0052
JOHNSON, E A	P01HL12157-11 0054
JOHNSDN, E A	P01HL12157-11 0058
JDHNSON, E A	P01HL12157-11 0060
JDHNSDN, EDWARD A	P01HL12157-11
JDHNSON, EUGENE M,	R01HL20604-03
JOHNSON, GEDRGE, JR	R01HL20177-02
JOHNSDN, JOHN M	R01HL20663-02
JOHNSDN, JDSEPH A	R01HL17366-05
JDHNSDN, JDSEPH E	P01HL16769-05 0008
JOHNSON, LARRY R	R23HL20576-D1
JDHNSDN, MICHAEL E	P6DHL15168-07 00D9
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JDHNSON, PAUL C	P01HL17421-05 00D4
JDHNSDN, PAUL C	P01HL17421-05 DD06
JOHNSON, PETER	R01HL23233-D1
JOHNSDN, RDBERT A	R01HL22750-01
JDHNSDN, RDBERT L	P01HL06296-18 0D02
JDHNSON, RDBERT L	P50HL14187-07 0015
JOHNSDN, RDBERT L	R01HL2D095-03
JDHNSDN, RDBERT M	R01HL15793-06
JDHNSDN, ROBERT M	P60HL160D8-06 DD18
JDHNSON, STEVE L	P01HL07293-17 0051
JDHNSDN, STEVE L	PD1HL07293-17 0052
JDHNSON, STEVE L	P01HLD7293-17 0D59
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JDKELAINEN, PENTTI	R01HL18831-03
JDKELAINER, PENTTI	P01HL18575-03 0007
JDKELAINER, PENTTI	P01HL18575-03 0012
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JDNES, ALLAN W	R01HL15852-06
JDNES, CARL E	R01HL20286-02
JONES, CYRIL J	P60HL15170-D5
JDNES, DAVID B	R01HL04300-20
JONES, JANICE L	R01HL21038-01
JDNES, JIMMY B	R01HL15647-06
JDNES, JDHN W	N01HV22939-12
JDNES, PERRY	P60HL16008-06 0011
JONES, RICHARD T	R01HL20142-02
JDNES, ROBERT H	P50HL17670-04 0015
JDNES, ROBERT H	R01HL20677-02
JDNES, ROBERT N	P50HL15092-07 0012
JONES, STEVEN B	P01HL08682-15 0006
JONES, WARREN C, JR	R01HL19331-03
JOSEPHS, ROBERT	R01HL22654-01
JDYNER, RDNALD W	R01HL22562-02
JDYNER, WILLIAM L	R01HL19455-D3
JUCHAU, MDNT R	P01HL03174-23 0011
JUDKINS, MELVIN P	N01HV32975-08
JUDY, JESSE N	N01HI72900-01
JULIAN, FRED J	R01HL16606-11
JULIUS, STEVD	R01HL21893-01
JUNGMANN, RICHARD A	R01HL18682-03
JURATSCH, CRAIG E	R01HL18371-03
KADDWITZ, PHILIP J	R01HL15580-06
KADOWITZ, PHILIP J	R01HL18070-04
KAFER, ENID R	R01HL17314-04
KAGAN, HERBERT M	P01HL13262-07 0015
KAGAN, HERBERT M	P01HL19717-02 0004
KAGAN, HERBERT M	P01HL19717-02 0005
KAISER, EMIL T	P01HL18577-03 0005
KAISER, GEDRGE C	P01HL06312-17 0013
KAISER, GEORGE C	P01HL06312-17 0053
KAISER, GEDRGE C	N01HV32980-07
KALIA, MADHU	R01HL17800-04
KALNITSKY, GEDRGE	R01HL16920-02
KAMPINE, JOHN P	R01HL16511-04
KAN, YUET WAI	P60HL20985-01 0005
KAN, YUET WAI	P60HL20985-01 0010
KANE, JOHN P	P50HL14237-07 0003
KANE, JDHN P	P50HL14237-07 0006
KANG, ANDREW H	R01HL19731-03
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KANTROWITZ, ADRIAN	P01HL13737-07
KANTRDWITZ, ADRIAN	P01HL13737-07 0028
KANTRDWITZ, ADRIAN	P01HL13737-07 0029
KANTRDWITZ, ADRIAN	P01HL13737-07 0032
KANTROWITZ, ADRIAN	R01HL22329-01
KAPLAN, EDWARD L	R01HL19307-03
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KAPLAN, EDWARD M	N01HV53D27-05
KAPLAN, HARRY A	R01HL19053-03
KAPLAN, J H	R01HL09906-13 0018
KAPLAN, JERDME I	R01HL21706-02
KAPLAN, JERRY	R01HL21120-02
KAPLAN, KAREN L	P01HL15486-06 0005
KARDDS, J L	N01HV72919-01
KARIC, LUCIJA STANC	R23HL21271-02
KARIS, JDANNES H	P01HL07896-15 0056
KARLINER, JOEL S	P01HL12373-10 0013
KARLINER, JOEL S	P50HL17682-04 0001
KARLINER, JOEL S	P50HL17682-04 0008
KARLINSKY, JDEL B	P01HL19717-02 0009
KARLINSKY, JOEL B	P01HL19717-02 0010
KARLINSKY, JOEL B	P01HL19717-02 0011
KARLINSKY, JOEL B	P01HL19717-02 0012
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KARNOVSKY, MDRRIS J	R01HL17747-04
KARPATKIN, SIMDN	R01HL13336-09
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KASS, EDWARD H	N01HV82915-01
KASS, RDBERT S	R01HL21922-D1
KATONA, PETER G	RD1HL20328-D1
KATZ, ARNDLD M	R01HL21812-D2
KATZ, ARNDLD M	R01HL22135-D1
KATZ, SIDNEY	RD1HL19647-03
KATZ, SDLOMON H	R01HL19869-D3
KATZUNG, BERTRAM G	R01HL17452-D4
KAUFFMAN, JDHN W	R01HL21404-01
KAVALER, FREDERIC	R01HL12774-D8
KAY, MARQUERITE M B	R01HL22671-D1
KAYDEN, HERBERT J	RD1HL06481-15
KAYE, MICHAEL P	R01HL2D61D-02
KAYE, MICHAEL P	R01HL22445-D1

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KEARNEY, EONA B	P01HL16251-06 0004
KEELY, STANLEY L, J	R01HL19181-02
KEFALIOES, NICHOLAS	P50HL15061-07 0004
KEFALIOIES, NICHOLE	P01HL18827-02 0001
KEISER, JOHN M	N01HV53008-07
KEISER, JOHN M	N01HV72976-02
KELLEHER, PHILIP C	P50HL14212-07 0004
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KELLEY, JASON	R23HL21504-02
KELLNER, AARON	P01HL09011-15
KELLY, A PAUL	P60HL23282-01 0003
KELLY, ALAN M	P01HL15835-06 0010
KEM, OAVIO C	R01HL19279-03
KEMP, HARVEY G	N01HV32978-08
KENORICK, JOHN E	R01HL22715-01
KENNEY, WILLIAM C	P01HL16251-06 0001
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KEYES, JOHN W, JR	R01HL21707-01
KEYS, ANCEL	R01HL04697-17
KEZOI, PAUL	N01HV33108-04
KEZOY, FERENC J	P50HL15062-07 0007
KEZOY, FERENCZ J	P01HL18577-03 0003
KHACHADURIAN, AVEOI	R01HL18878-03
KHALIFAH, RAJA G	R01HL17963-04
KHAW, BAN AN	P50HL17665-04 0032
KIOO, PARRIS M	R23HL22959-01
KIM, OONG N	P01HL20993-02 0004
KIM, SUNG-WAN	R01HL17623-05
KIM, SUNG-WAN	R01HL20251-02
KIMBEL, PHILIP	P01HL20994-02
KIMBEL, PHILIP	P01HL20994-02 0008
KING, RICHARO J	R01HL16725-03
KING, RICHARD J	R01HL19676-02
KING, TSOO E	R01HL12576-10
KING, WILLIAM S	R01HL16580-04
KINGOON, HENRY S	R01HL16633-04
KINGDON, HENRY S	R01HL17726-03
KINIAS, PLATO	P50HL17648-04 0033
KIRBY, ALBERT C	R01HL22008-01
KIRBY, EDWARO P	P50HL14217-08 0062
KIRBY, EOWARO P	R01HL15474-06
KIRCHBERGER, MAOELE	R01HL15764-05
KIRK, EOWARO S	R01HL23171-01
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KIRKLIN, JOHN W	P01HL11310-12 0059
KIRKLIN, JOHN W	P01HL11310-12 0067
KIRKLIN, JOHN W	P01HL11310-12 0070
KIRKPATRICK, FRANCE	P01HL18208-04 0007
KIRKPATRICK, FRANCI	P01HL18208-04 0003
KIRKPATRICK, FRANCI	R01HL18551-03
KIRPEKAR, S M	R01HL22170-01
KIRSCHENBAUM, MICHA	R01HL21272-02
KIRSTEN, EOWARO B	P01HL12738-10 0109
KISKER, C THOMAS	R01HL19105-02
KITE, JOSEPH H, JR	R01HL20063-03
KITTERMAN, JOSEPH A	P50HL19185-02 0003
KJELSBERG, MARCUS	N01HV22971-07
KLEIN, OAVIO H	N01HV72990-00
KLEINERMAN, JEROME	R01HL23595-01
KLEINZELLER, ARNOST	P01HL19737-02 0014
KLINE, OANIEL L	R01HL11172-12
KLIP, WILLIAM	P01HL11310-12 0094
KLM, OONG N	P01HL20993-02 0012
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KLOCKE, ROBERT A	P01HL15194-07 0023
KLOSTER, FRANK E	R01HL21293-02
KLOTZ, IRVING M	R01HL08299-16
KNAUSS, THOMAS A	P50HL19187-02 0011
KNIGHT, OAVIO H	P01HL08805-15 0049
KNOEBEL, SUZANNE B	P01HL06308-18 0011
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KNOX, FRANKLYN G	R01HL14133-08
KNUOSON, RONALD J	P50HL14136-07 0001
KNUDSON, RONALO J	P50HL14136-07 9002
KNYCH, EOWARD T, JR	R01HL18893-03
KOCAN, RICHARO M	P01HL03174-23 0010
KOCSIS, JAMES J	R01HL20211-02
KOEHLER, KARL A	R01HL18245-03
KOHN, ROBERT M	N01HV72952-02
KOIVO, ANTTI J	R01HL22417-01
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KOLER, ROBERT O	R01HL20393-03
KOLETSKY, SIMON	R01HL22341-01
KOLFF, WILLEM J	P01HL13738-08
KOLFF, WILLIAM J	P01HL13738-08 0002
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KOLIN, ALEXANDER	R01HL17591-03
KONTOS, HERMES A	R01HL21851-01
KOOYMAN, GERALO L	P01HL17731-04 0003
KOROENAT, R KARL	R01HL22005-01
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KOSHY, MABEL	P60HL16005-05 0021
KOSOW, OAVID P	R01HL18502-03
KOSOW, OAVIO P	R01HL19282-03
KOSTREVA, OAVIO R	R23HL21042-01
KOTCHEN, JANE M	R01HL19956-03
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KOTCHEN, THEOOORE A	R01HL22390-01
KOTTKE, BRUCE A	R01HL21592-01
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KOUCHOUKOS, NICHOLA	P01HL11310-12 0055
KOUCHOUKOS, NICHOLA	P01HL11310-12 0057
KOUCHOUKOS, NICHOLA	P01HL11310-12 0064
KOUCHOUKOS, NICHOLA	P50HL17667-04 0019
KOUSHANPOUR, ESMAIL	R01HL22667-01
KOZIKOWSKI, ALAN P	R01HL20579-02
KRAEMER, DUANE C	P50HL19362-02 0003
KRAEMER, OUANE C	P50HL19362-02 0004
KRAEMER, DUANE C	P50HL19362-02 0005
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KRAKOWER, CECIL A	R01HL01623-24
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KRAMER, ROBERT J	N01HV72959-04
KRAMSCH, OIETER M	P01HL13262-07 0016
KRAMSCH, OIETER M	R01HL15512-06
KRAMSCH, OIETER M	R01HL18060-04
KRAMSCH, OIETER M	P50HL18318-03 0002
KRASNE, SALLY J	R01HL20254-02
KRASNEY, JOHN	P01HL14414-07 0015
KRAUS, ALFREO P	P60HL15169-05
KRAUS, ALFREO P	P60HL15169-05 0019
KRAUS, ALFREO P	P60HL15169-05 0021
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KRAUS, LORRAINE M	P60HL15169-05 0018
KRAUSS, RONALO M	P01HL18574-03 0006
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KREUTZER, OONALD L	R23HL22437-01
KRIMM, SAMUEL	R01HL18737-03
KRIPPAEHNE, WILLIAM	R01HL14126-17
KRITCHEVSKY, DAVIO	R01HL03299-21
KRITCHEVSKY, OAVIO	R01HL05209-18
KRITCHEVSKY, DAVIO	R01HL13722-08
KRIVIT, WILLIAM	P01HL16833-04 0017
KROL, WILLIAM F	N01HV52901-06
KRON, REUBEN E	P01HL08899-14 0046
KRON, REUBEN E	R01HL17408-03
KRONAUER, RICHARO E	R01HL16325-03
KRONENBERG, MARVIN	R23HL22004-01
KRONGRAO, EHUO	P01HL12738-10 0127
KRONGRAO, EHUO	P01HL12738-10 0131
KRONICK, PAUL L	N01HV12017-15
KROPP, OONNA L	R01HL20711-01
KRUEGER, DEAN E	N01HR72901-02
KRUEGER, JOHN W	R23HL21325-02
KRUGER, FREO A	R01HL22354-01
KUEHL, KAREN S	R01HL20712-02
KUEPPERS, FRIEORICH	P01HL20994-02 0005
KUEPPERS, FRIEORICH	P01HL20994-02 0006
KUHN, CHARLES	R01HL12650-08
KUHN, CHARLES, III	P01HL16118-06 0005
KULLER, LEWIS H	R01HL19864-03
KULLER, LEWIS H	R01HL20179-02
KULLER, LEWIS H	N01HV33109-04
KUMAR, SURIENOER	R01HL18938-03
KUMMEROW, FREO A	R01HL15504-05
KUN, ERNEST	P01HL06285-18 0178
KUNAU, ROBERT T, JR	R01HL18875-03
KUNZ, ALBERT L	R01HL14870-06
KUNZE, OIANA L	R01HL18798-04 0001
KUO, JYH-FA	R01HL15696-06
KUO, PETER T	N01HV72968-03
KURUP, VISWANATH P	P50HL15389-07 0019
KUTCHAI, HOWARD C	R01HL17967-04
KVALE, PAUL A	N01HR62944-04
KWAN-GETT, CLIFFORO	P01HL13738-08 0004
KWIATKOWSKI, G. T.	N01HV32950-08
KWITEROVICH, PETER	R01HL17898-03
KWITEROVICH, PETER	N01HV12158-10
KYLSTRA, JOHANNES A	P01HL07896-15 0021
KYTE, JACK E	R01HL17879-04
LA CELLE, PAUL L	R01HL16421-08
LA CELLE, PAUL L	P01HL18208-04
LA LONE, BRIAN J	R23HL21332-02
LA MAR, GERO N	R01HL16087-05
LA ROSA, JOHN C	N01HV32931-09
LABARTHE, OARWIN R	N01HV62900-00
LACELLE, PAUL L	P01HL18208-04 0005
LADOA, ROGER L	P50HL19190-02 0003
LAFARGE, C GRANT	P01HL10436-13 0006
LAGE, GARY L	R01HL21996-01
LAGUNOFF, DAVID	P01HL03174-23 0009
LAGUNOFF, OAVIO	R01HL23593-01
LAHIRI, S	P01HL08805-15 0039
LAHIRI, S	P01HL08899-14 0023
LAHIRI, SUKHAMAY	P01HL19737-02 0011
LAI-FOOK, STEPHEN J	P01HL21584-02 9001
LAI, YIH-LOONG	R01HL20568-03
LAING, RONALO A	P01HL13262-07 0024
LAKS, HILLEL	P01HL06312-17 0048
LAKS, MICHAEL M	R01HL14717-06
LALEZARI, PARVIZ	R01HL10036-13
LAMBERTH, EOWIN L	P50HL14214-07 0031
LAMBERTSEN, CHRISTI	P01HL08899-14
LAMBERTSEN, CHRISTI	P01HL08899-14 0003
LAMBERTSEN, CHRISTI	P01HL08899-14 0006
LAMBERTSEN, CHRISTI	P01HL08899-14 0008
LAMBERTSEN, CHRISTI	P01HL08899-14 0010
LAMBERTSEN, CHRISTI	P01HL08899-14 0014
LAMBERTSEN, CHRISTI	P01HL08899-14 0015
LAMBERTSEN, CHRISTI	P01HL08899-14 0017
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LAMBERTSEN, CHRISTI	P01HL08899-14 0022
LAMBERTSEN, CHRISTI	P01HL08899-14 0025
LAMBERTSEN, CHRISTI	P01HL08899-14 0026
LAMBERTSEN, CHRISTI	P01HL08899-14 0027
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LAMBERTSEN, CHRISTI	P01HL08899-14 0029
LAMBERTSEN, CHRISTI	P01HL08899-14 0054
LAMBERTSEN, CHRISTI	P01HL08899-14 0085
LAMBERTSON, CHRISTI	P01HL08899-14 0044
LAMBERTSON, CHRISTI	P01HL08899-14 0047
LAMBERTSON, CHRISTI	P01HL08899-14 0064
LAMBERTSON, CHRISTI	P01HL08899-14 0065
LAMBERTSON, CHRISTI	P01HL08899-14 0078
LAMBERTSON, CHRISTI	P01HL08899-14 0079
LAMBERTSON, CHRISTI	P01HL08899-14 0080
LAMBERTSON, CHRISTI	P01HL08899-14 0089
LAMPKIN, BEATRICE	P60HL15996-06 0003
LAMPKIN, BEATRICE	P60HL15996-06 0007
LAMPKIN, BEATRICE	P60HL15996-06 0008
LAMPKIN, BEATRICE	P60HL15996-06 0009
LAMPKIN, BEATRICE C	P60HL15996-06
LANOOWNE, OAVIO	P01HL16117-05 0004
LANOSBERG, LEWIS	P01HL11414-11 0028
LANE, LOIS K	P01HL22619-01 0001
LANG, L GEORGE	R01HL16860-05
LANGE, ROBERT O	R01HL10567-12
LANGE, YVONNE	R01HL20303-03
LANGER, GLENN A	P01HL11351-12 0001
LANGER, GLENN A	P01HL11351-12 0002
LANGER, GLENN A	P01HL11351-12 0009
LANGER, GLENN A	P01HL11351-12 0010
LANGER, GLENN A	P01HL11351-12 0011
LANGFORO, HERBERT G	R01HL18891-02
LANGNER, RONALD O	R01HL15478-05
LARAGH, JOHN H	P50HL18323-04
LARAGH, JOHN H	P50HL18323-04 0011
LARAGH, JOHN H	P50HL18323-04 0012
LARAGH, JOHN H	P50HL18323-04 0034
LASKER, SIGMUNO E	R01HL18068-02
LASKOWSKI, MICHAEL,	R01HL15892-05
LATIMER, PAUL H	R01HL18256-01
LAUBACH, CHARLES A	N01HV82903-02
LAUBACH, CHARLES A,	R01HL11372-08
LAUER, RONALO M	P50HL14230-07 0088
LAUER, RONALO M	R01HL20124-02
LAUF, P K	P01HL12157-11 0033
LAURSEN, RICHARD A	R01HL15535-06
LAW, JOHN H	P50HL15062-07 0008
LAWLER, JAMES E	R01HL19680-01
LAWSON, WILLIAM B	R01HL15887-05
LAWTON, WILLIAM	P01HL14388-07 0224
LAYMAN, OON L	R01HL21303-02
LAYTON, WILLIAM M,	R01HL19430-03
LAZAROW, PAUL B	R01HL20909-02
LEAF, ALEXANDER	P01HL06664-17
LEAF, ALEXANOER	P01HL06664-17 0042
LEAF, ALEXANDER	P01HL06664-17 0043

LEAK, LEE V	R01HL13901-08
LEAMAN, OAVID M	R01HL17954-03
LEAVIS, PAUL C	R01HL20464-01
LEBOWITZ, MICHAEL D	P50HL14136-07 0016
LEBOWITZ, MICHAEL O	P50HL14136-07 9001
LEDERMAN, DAVID	N01HV72937-00
LEE-HUANG, SYLVIA	R01HL21683-02
LEE, CHIN O	R01HL21136-02
LEE, GEORGE C	R01HL14495-05
LEE, JOHN C	R01HL20939-02
LEE, KWANG S	R01HL16706-04
LEE, KWANG S	R01HL21014-01
LEE, KWANG S	R01HL21469-01
LEE, KYU T	P01HL20993-02 0005
LEE, KYU T	P01HL20993-02 0010
LEE, MARY M L	P01HL16851-04 0011
LEE, PING	R01HL13237-09
LEE, TED C K	P60HL15160-07 0008
LEE, WILLIAM W	R01HL21769-01
LEEDS, SANFORD E	R01HL03180-21
LEES, ROBERT S	R01HL21460-02
LEFKOWITZ, ROBERT J	R01HL16037-06
LEFKOWITZ, ROBERT J	R01HL20339-02
LEHAN, PATRICK H	R01HL19289-03
LEHNER, NOEL D M	P50HL14164-07 0025
LEHNER, NOEL D M	P50HL14164-07 0042
LEHRER, SAMUEL B	P50HL15092-07 0011
LEHRER, SHERWIN S	R01HL22461-01
LEINBACH, ROBERT C	P50HL17665-04 0001
LEINBACH, ROBERT C	P50HL17665-04 0003
LEITCH, CYNTHIA J	R01HL22378-01
LEITH, DAVIO E	P50HL19170-02 0008
LEITH, DAVIO E	P50HL19170-02 0009
LEMANSKI, LARRY F	R01HL22550-02
LEPESCHKIN, EUGENE	R01HL01486-23
LEQUIRE, VIRGIL S	P50HL14214-07 0021
LEQUIRE, VIRGIL S	P50HL14214-07 0037
LERNER, ROBERT G	R01HL14739-06
LESCH, MICHAEL	R01HL19648-03
LESLIE, CRYSTAL A	R23HL22011-01
LEUNG, JOSEPH	P01HL16683-04 0003
LEV, MAURICE	R01HL07605-16
LEVERE, RICHARO D	P60HL15170-05 0017
LEVEY, GERALD S	R01HL13715-08
LEVIN, O C	R01HL20895-03 0008
LEVIN, OAVID C	N01HR72903-05
LEVIN, JACK	R01HL01601-30
LEVIN, JEROME A	R01HL12647-08
LEVINE, FREDERICK D	P50HL17665-04 0021
LEVINE, FREOERICK H	P50HL17665-04 0022
LEVINE, HERBERT J	R01HL07139-17
LEVINE, PETER H	N01HB53019-06
LEVINE, RHEA J C	P01HL15835-06 0007
LEVINE, S	P01HL08805-15 0047
LEVINSKY, NORMAN G	P50HL18318-03 0013
LEVINSKY, NORMAN G	R01HL22172-01
LEVINSON, DENNIS J	P60HL16005-05 0019
LEVITSKY, SIDNEY	R01HL18288-04
LEVITSKY, SIDNEY	R01HL22844-01
LEVITT, MORTON	R01HL14148-07 0002
LEVITT, MORTON	P50HL18323-04 0041
LEVITZKY, MICHAEL G	R01HL22641-01
LEVY, MATTHEW N	R01HL10951-11
LEVY, MATTHEW N	R01HL15758-06
LEW, GLORIA M	R01HL17724-03
LEWIS, JESSICA H	R01HL02254-23
LEWIS, JON C	P50HL14164-07 0043
LEWIS, JON C	P50HL14164-07 0044
LEWIS, ROBERT A	R23HL21089-02
LEWIS, ROBERT M	P60HL17269-04 0024
LEWIS, STEVEN M	R23HL21990-01
LIANG, CHANG-SENG	R01HL17403-03
LICHSTEIN, EDGAR	N01HV72960-02
LICHTENSTEIN, LAWRE	P50HL14153-07 0014
LICHTENSTEIN, LAWRE	R01HL23586-06
LICHTMAN, MARSHALL	P01HL18208-04 0001
LICHTMAN, MARSHALL	P01HL18208-04 0004
LIEBERMAN, JACK	R01HL21156-02
LIEBERMAN, M	P01HL12157-11 0055
LIEBERMAN, M	P01HL12157-11 0057
LIEOTKE, A JAMES	R01HL21209-02
LIEN, DONNA M	N01HB62967-03
LIENER, IRVIN E	R01HL14865-07
LILLEHEI, RICHARO C	R01HL18731-02
LIMAS, CONSTANTINOS	R01HL21850-01
LIMBIRO, LEE E	R23HL21051-02
LIN, HSIU-SAN	R01HL19746-03
LIN, SHU-REN	R01HL18590-03
LINDGREN, FRANK T	P01HL18574-03
LINOGREN, FRANK T	P01HL18574-03 0001
LINOLEY, BARRY O	R01HL19848-02
LIPPMANN, MORTON	R01HL19431-03
LIPSCOMB, KIRK	P50HL17669-04 0008
LISTOWSKY, IRVING	R01HL11511-10
LITT, MITCHELL	R01HL14271-07
LITT, MITCHELL	R01HL23267-01
LITTEN, RAYE Z, III	R01HL22845-01
LITTLE, ALICK	N01HV22917-11
LITTLE, WILLIAM	P50HL14141-05 0002
LITWAK, ROBERT S	P01HL16387-04 0006
LIU, MAW-SHUNG	R01HL23618-01
LLOYO, THOMAS C, JR	R01HL15694-06
LOBERG, MICHAEL O	R01HL18744-03
LODA, FRANK A	P50HL19171-02 0005
LOGERFO, FRANK W	R01HL21796-01
LOHMEIER, THOMAS E	P01HL11678-11 0066
LOHMEIER, THOMAS E	P01HL11678-11 0067
LOKE, JACOB S	R23HL22895-01
LOKHANDWALA, MUSTAF	R01HL22868-01
LOMBARD, JULIAN H	R23HL22972-01
LONG, JOHN M	P01HL15265-05 0004
LONGHURST, JOHN C	R23HL22669-01
LONGINI, RICHARD L	R01HL20632-02
LONGMORE, WILLIAM J	R01HL13405-09
LONGMUIR, IAN S	R01HL16828-04
LONGNECKER, OAVIO E	R01HL17091-05
LORAND, LASZLO	R01HL02212-23
LORAND, LASZLO	R01HL16346-09
LORIA, ROGER M	R01HL18152-03
LORING, STEPHEN H	R23HL22920-01
LOSKUTOFF, DAVIO J	R01HL22289-01
LOUO, ALOEN V	R01HL14713-06
LOURENCO, RUY V	R01HL13824-06
LOVE, SAMUEL H	P01HL16769-05 0011
LOW, ROBERT B	P50HL14212-07
LOW, ROBERT B	P50HL14212-07 0007
LOWENHAUPT, ROSALIN	R01HL21988-01
LOWENSTEIN, EDWARO	P50HL17665-04 0026
LOWN, BERNARD	R01HL07776-15
LOWN, BERNARD	R01HL18783-04
LUCCHESI, BENEDICT	R01HL05806-18
LUCCHESI, BENEOICT	R01HL19782-02
LUCHTEL, DANIEL L	P50HL19187-02 0003
LUDBROOK, PHILIP A	P50HL17646-04 0010
LUETSCHER, JOHN A,	R01HL13917-20
LUETSCHER, JOHN A,	R01HL17364-04
LUMB, ROGER H	R01HL21176-02
LUMB, WILLIAM V	R01HL20183-02
LUMRY, RUFUS	P01HL16833-04 0006
LUSHER, JEANNE M	N01HB53025-05
LUX, ROBERT L	P01HL13480-09 0042
LYMAN, DONALO J	P01HL13738-08 0005
LYNN, W S	P01HL07896-15 0047
LYNN, WILLIAM S	R01HL19806-03
LYNN, WILLIAM S	R01HL21480-01
LYONS, HAROLD A	R01HL16651-05
MACKLEN, P T	N01HR32902-07
MACLEAN, WILLIAM A	P01HL11310-12 0077
MACY, JOSIAH, JR	P01HL11310-12 9003
MACY, JOSIAH, JR	P01HL11310-12 9004
MACY, JOSIAH, JR	P50HL17667-04 0041
MADERAZO, EUFRONIO	R01HL22257-01
MAGNO, MICHAEL	R01HL22928-01
MAGNUSSON, STAFFAN	R01HL16238-05
MAISELS, M JEFFREY	P50HL19190-02 0001
MAISELS, M JEFFREY	P50HL19190-02 0002
MAJERUS, PHILIP W	P50HL14147-08
MAJERUS, PHILIP W	P50HL14147-08 0001
MAJERUS, PHILIP W	R01HL16634-13
MAJNO, GUIOO	R01HL16952-05
MAKARSKI, JOSEPH S	R23HL21189-01
MALIK, ASRAR B	R01HL17355-04
MALIK, KAFAIT U	R01HL19134-04
MALIK, KAFAIT U	R01HL20206-02
MALIK, MAZHAR N	R01HL22194-02
MALINOW, MANUEL R	R01HL16587-04
MALMUO, LEON S	P50HL14217-08 0052
MALONEY, JAMES V, J	R01HL16292-05 0002
MALONEY, JAMES V, J	R01HL16292-05 0009
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MALVIN, RICHARD L	P01HL18575-03 0005
MAMMEN, EBERHARO F	P01HL13737-07 0026
MANASEK, FRANCIS J	R01HL13831-08
MANDEL, FREOERIC	P01HL22619-01 9003
MANOEL, RICHARO	R23HL19594-01
MANOEL, WILLIAM J	P50HL17651-04 0022
MANDL, INES	P50HL14218-07 0006
MANDL, INES	P01HL15832-06 0001
MANOL, INES	P01HL15832-06 0008
MANOL, INES	P01HL15832-06 0009
MANN, KENNETH G	R01HL16150-05
MANN, KENNETH G	P01HL17430-05 0005
MANNING, JAMES M	R01HL18819-07
MANNING, JOHN W	R01HL16648-16
MANNING, R OAVIS, J	P01HL11678-11 0001
MANNING, R OAVIS, J	P01HL11678-11 0059
MANSFIELO, PETER B	N01HV12060-18
MANSOUR, TAG E	R01HL17976-18
MANTLE, JOHN A	P50HL17667-04 0018
MARCHESI, SALLY L	R01HL20140-02
MARCUS, AARON J	P50HL18828-03 0008
MARCUS, MELVIN L	P01HL14388-07 0216
MARCUS, MELVIN L	P01HL14388-07 0217
MARCUS, MELVIN L	P01HL14388-07 0219
MARCUS, MELVIN L	R01HL20827-02
MARDER, VICTOR J	P50HL14217-08 0049
MARDER, VICTOR J	R01HL21379-01
MAREN, THOMAS H	R01HL22258-01
MARGOLIASH, EMANUEL	R01HL11119-17
MARGOLIES, MICHAEL	P01HL19259-03 0001
MARGOLIS, SIMEON	R01HL15930-06
MARGOLIS, SIMEON	R01HL19095-03
MARGOLIUS, HARRY S	R01HL17705-04
MARIN, MATTHEW G	R01HL21314-02
MARINETTI, GUIDO V	R01HL02063-23
MARK, ALLYN L	P01HL14388-07 0184
MARK, ALLYN L	P01HL14388-07 0186
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MARK, ALLYN L	P01HL14388-07 0220
MARK, ALLYN L	P01HL14388-07 0230
MARKHAM, JOANNE	P50HL17646-04 0002
MARKHAM, JOANNE	P50HL17646-04 0006
MARKLANO, FRANCIS S	R01HL22875-01
MARKS, BERNARO H	R01HL17555-05
MARKWALD, ROGER R	R01HL19136-03
MARMORSTON, JESSIE	N01HV42931-07
MAROKO, PETER R	P50HL17665-04 0008
MAROKO, PETER R	R01HL20199-02
MARSH, JULIAN B	R01HL19168-03
MARSH, JULIAN B	P01HL22633-01
MARSH, JULIAN B	P01HL22633-01 0001
MARSH, JULIAN B	P01HL22633-01 9002
MARSHALL, BRYAN E	R01HL16916-04
MARSHALL, BRYAN E	R01HL16916-04 0001
MARSHALL, BRYAN E	R01HL16916-04 0002
MARSHALL, BRYAN E	R01HL16916-04 0011
MARSHALL, GARLANO R	R01HL14509-07
MARSHALL, GARLAND R	R01HL19374-03
MARSHALL, GARLAND R	N01HV72944-02
MARSHALL, HIRAM W	P01HL04664-18 0013
MARTIN, ANNE F	P01HL22619-01 0007
MARTIN, ANNE F	R01HL22651-01
MARTIN, CARROLL J	R01HL22313-01
MARTIN, PAUL J	R01HL22484-01
MARTIN, ROY W	R01HL14645-07
MARTINEZ-CARRION, M	R01HL22265-02
MARTINEZ, J RICAROO	P50HL19160-02 0001
MARTINEZ, JOSE	R01HL20092-02
MARX, JAMES J	P50HL15389-07 0013
MASHBURN, THOMPSON	R01HL21641-02
MASON, OEAN T	R01HL21820-01
MASON, JAY W	P01HL13108-09 0017
MASON, JAY W	P01HL13108-09 0018
MASON, JAY W	P01HL13108-09 0019
MASON, REGINALO G,	R01HL22583-02
MASON, REGINALD G,	R01HL22627-01
MASON, ROBERT J	P01HL06285-18 0209
MASORO, EDWARD J	P50HL19362-02 0002
MASOUREOIS, SERAFEI	R01HL12994-09
MASSARO, OONALO J	R01HL20366-03
MASSARO, OONALO J	R13HL22159-01
MASSARO, GLORIA O	R01HL22333-01
MASTERS, BETTIE S	R01HL13619-09
MATES, ROBERT E	P01HL15194-07 9002
MATES, ROBERT E	P01HL15194-07 9003
MATHE, ALEKSANOER A	R01HL15677-06
MATHE, ALEKSANDER A	P01HL19717-02 0037
MATHEWS, JOHN O	R01HL19984-02
MATHEWS, LOUIS B	N01HV72953-04
MATHIAS, MELVIN M	R01HL18239-03
MATLIB, M ABDUL	P01HL22619-01 0010
MATSCHINER, JOHN T	R01HL19322-03
MATTHEWS, LEROY W	R01HL13885-08
MAUGHAN, OAVIO W	R01HL21312-01
MAURICE, GOROON L	N01HV72965-02
MAXWELL, MORTON H	R01HL22069-02
MAXWELL, MORTON H	N01HV12436-15
MAYER, STEVEN E	P01HL12373-10 0012
MAYER, STEVEN E	P01HL12373-10 0018
MAYER, STEVEN E	P50HL17682-04 0020
MAYERLE, JOAN A	P01HL06285-18 0205
MAYNE, RICHARO	R01HL21665-01
MAYROVITZ, HARVEY N	R01HL22738-01
MAZZARA, JAMES T	R01HL18984-01
MAZZONE, ROBERT W	R23HL21943-01
MC ALISTER, ALFREO	R23HL22947-01

MC CAA, ROBERT E	R01HL09921-13
MC CALL, DAVID	R01HL22568-01
MC CALLISTER, LAWRE	R01HL18631-03
MC CALLUM, DAVIO B	N01HV72987-02
MC CARL, RICHARD L	R01HL10018-11
MC CARTNEY, MICHAEL	R01HL22517-01
MC CARTY, MACLYN	R01HL03919-20
MC CONN, RITA	R01HL17479-04
MC COY, LOWELL E	R01HL20317-02
MC CULLOUGH, JEFFRE	N01HB62972-05
MC CURDY, PAUL R	R01HL14131-18
MC CUSKEY, ROBERT S	R01HL23604-01
MC DONAGH, JAN M	R01HL21139-02
MC OONAGH, RICHARD	R01HL22505-01
MC DONALO, TED P	R01HL14637-05
MC FADOEN, EOWARO R	R01HL17873-04
MC GIFF, JOHN C	R01HL18845-04
MC GILL, HENRY C	N01HV53030-05
MC GILL, HENRY C, J	P50HL19362-02
MC GOWAN, ELEANOR B	R23HL21413-02
MC HENRY, LAWRENCEC	N01HV72925-04
MC INTIRE, LARRY V	R01HL17437-03
MC INTIRE, LARRY V	R01HL18672-03
MC KEE, PATRICK A	R01HL15615-06
MC LAUGHLIN, ROBERT	R01HL19133-03
MC LENDON, GEORGE L	R01HL21461-01
MC MAHON, THOMAS A	R01HL21425-02
MC MILLAN, C W	N01HB53016-05
MC MILLIN, CARL R	N01HV72918-01
MC MURRY, JOHN E	R01HL18118-04
MC NAMARA, J JUDSON	N01HV72956-02
MC NAMARA, JOSEPH J	R01HL14571-05
MCCAA, ROBERT E	P01HL11678-11 0046
MCCAA, ROBERT E	P01HL11678-11 0047
MCCALL, CHARLES E	P01HL16769-05 0002
MCCLUSKEY, ROBERT	P01HL18646-03 0009
MCDANIEL, HUEY G	P50HL17667-04 0040
MCOANIEL, HUEY G	P50HL17667-04 0043
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MCOONALD, OONALO M	P50HL19155-02 0008
MCOONALO, DONALD M	P50HL19156-02 0006
MCDONALO, DONALD M	P50HL19185-02 0012
MCFAODEN, EDWARO R	P50HL19170-02 0007
MCFADOEN, REGIS	P01HL17382-05 0001
MCGILL, HENRY C, JR	P50HL19362-02 0012
MCGILL, HENRY C, JR	P50HL19362-02 0015
MCHENRY, PAUL L	P01HL06308-18 0010
MCINTOSH, HENRY O	P60HL17269-04 0023
MCINTOSH, HENRY D	P60HL17269-04 0026
MCMAHAN, C ALEX	P50HL19362-02 0017
MCMAHON, THOMAS A	P01HL11414-11 0034
MCMANUS, T J	P01HL12157-11 0051
MCMULLEN, JOHN	P01HL15265-05 0013
MCMURTRY, IVAN F	P01HL14985-07 0012
MEAD, JERE	P01HL14580-07
MEAD, JERE	P01HL14580-07 0005
MEANS, ANTHONY R	R01HL16512-04
MECHAM, ROBERT P	R23HL21225-02
MEERBAUM, SAMUEL	P50HL17651-04 0043
MEEZAN, ELIAS	R01HL20500-02
MEHENDALE, HARIHARA	R01HL20622-02
MEIER, GEORGE O	R23HL21197-02
MEIER, PAUL	P50HL17648-04 0032
MEIER, ROBERT C	P50HL19187-02 0012
MEINERT, CURTIS L	N01HV62957-05
MEISELMAN, HERBERT	P60HL15162-07 0019
MEISELMAN, HERBERT	R01HL15722-06
MEISNER, HERMAN M	R01HL18887-03
MELBIN, JULIUS	R01HL22223-01
MELBY, JAMES C	P50HL18318-03 0004
MELBY, JAMES C	P50HL18318-03 0009
MELLINS, ROBERT B	P50HL14218-07 0017
MELMON, KENNETH L	P01HL06285-18 0186
MELNICK, JOSEPH L	P60HL17269-04 0035
MEMMI, CARLOS	R01HL18936-02
MENDELSON, ROBERT A	P01HL16683-04 0002
MENDICINO, JOSEPH F	R01HL20868-02
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MENTZER, WILLIAM C	P60HL20985-01 0009
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MERIMEE, THOMAS J	R01HL19175-03
MERIN, ROBERT G	R01HL13257-09
MERRILL, EOWARO W	R01HL20079-02 0001
MERSKEY, CLARENCE	P01HL15596-05 0001
MERSKEY, CLARENCE	P01HL15596-05 0018
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MEYER, EOWARD C	R01HL13596-07
MEYER, WALTER J, II	R01HL20201-01
MICHAEL, ALFRED F	P01HL06314-17 0062
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MICHAELI, DOV	N01HV42984-05
MICHELAKIS, ANDREW	R01HL18019-04
MICHELAKIS, ANDREW	R01HL18027-03
MIKLICH, DONALD R	R01HL21318-02
MILHORN, HOWARO T	P01HL11678-11 0009
MILLAR, KAY	P01HL13480-09 0026
MILLER, EOWARO	P01HL11310-12 0106
MILLER, J N	P01HL07896-15 0045
MILLER, JAMES G	R01HL19537-03
MILLER, MARILYN E	R01HL22650-01
MILLER, MICHAEL E	R01HL20002-03
MILLER, NEAL E	R01HL21532-02
MILLER, NORMAN B	R01HL20872-02
MILLER, R DREW	R01HL20875-02
MILLER, RICHARO R	N01HV82900-03
MILLER, RUSSELL L	P60HL15160-07 0016
MILLER, THOMAS B, J	R01HL20476-03
MILLS, OAVID C B	P50HL14217-08 0058
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MILNOR, WILLIAM R	R01HL12607-10
MINES, ALLAN H	R01HL13841-16
MINH, VU-DINH	R01HL23985-01
MINICK, C RICHARO	R01HL01803-23 0005
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MINICK, CHARLES R	R01HL19109-03
MINICK, RICHARD C	R01HL01803-23 0020
MINOR, RONALD R	R01HL20635-03
MIRSKY, ISRAEL	R01HL12711-09
MIRSKY, ISREAL	P01HL20552-02 9002
MIRVIS, DAVID M	R01HL20597-02
MITCHELL, OANIEL S	P50HL19362-02 0011
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MITCHELL, JERE H	P01HL06296-18 0007
MITCHELL, RICHARD R	R01HL21518-01
MITCHELL, ROBERT A	P01HL06285-18 0182
MITTMAN, CHARLES	R01HL12833-09
MITTMAN, CHARLES	R01HL22976-01
MITZNER, WAYNE	P01HL10342-13 0006
MIZUKAMI, HIROSHI	P60HL16008-06 0017
MOCKROS, LYLE F	R01HL16582-05
MOE, GOROON K	R01HL19487-03
MOFFAT, JOHN K	R01HL18309-04
MOHN, JAMES F	R01HL05351-18
MOHRMAN, DAVIO E	R23HL22975-01
MOISE, JOHN C	N01HV72971-01
MOLTENI, AGOSTINO	N01HV32933-07
MOMMAERTS, WILFRIEO	P01HL11351-12 0004
MONTGOMERY, ROBERT	R23HL21730-01
MOOR-JANKOWSKU, JAN	N01HB42971-12
MOORE, E NEIL	R01HL16076-06
MOORE, E NEIL	R01HL23071-01
MOORE, RICHARD B	P01HL15265-05 0003
MOORE, VERNON L	P50HL15389-07 0011
MOORE, VERNON L	P50HL15389-07 0012
MOORE, VERNON L	R01HL22301-01
MOORE, WESLEY S	R01HL22110-02
MORAO, MARTIN	R01HL16152-06
MORAO, MARTIN	R01HL17702-04
MORALES, MANUEL F	P01HL16683-04
MORAN, NEIL C	R01HL02953-17
MORETTI, RICHARO L	R01HL18979-02
MORETTI, RICHARO L	R01HL19218-03
MORETTI, RICHARO L	R01HL22946-01
MORGAN, HOWARO E	R01HL13029-09
MORGAN, HOWARD E	R01HL18258-04
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MORIN, RICHARO A	P01HL14414-07 9003
MORIN, ROBERT J	R01HL14344-07
MORISHIGE, WALTER K	R01HL19195-03
MORITZ, WILLIAM E	P01HL07293-17 0045
MORITZ, WILLIAM E	P01HL07293-17 0047
MORITZ, WILLIAM E	P01HL07293-17 0055
MORITZ, WILLIAM E	P01HL07293-17 0056
MORITZ, WILLIAM E	R01HL16759-05
MORKIN, EUGENE	P01HL20984-02
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MORRIS, ALAN H	R01HL21948-01
MORRIS, HELEN G	R01HL22026-01
MORRIS, MARIANA	R01HL22411-01
MORRIS, THOMAS W	R01HL19677-03
MORRISETT, JOEL O	P60HL17269-04 0009
MORRISETT, JOEL D	P60HL17269-04 0046
MORRISON, OAVIO C	P01HL16411-04 0004
MORSE, JANE H	R01HL22456-01
MORTENSEN, J D	R01HL22661-01
MORTON, NEWTON E	R01HL16774-04
MOSBACH, ERWIN H	R01HL10894-12
MOSCHOS, CHRISTOS B	R01HL13036-08
MOSCOWITZ, ALBERT	P01HL16833-04 0015
MOSER, KENNETH M	P01HL18576-03 0013
MOSESSON, MICHAEL W	P01HL15596-05 0003
MOSESSON, MICHAEL W	P01HL17419-04
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MOSHER, OEANE F, JR	R01HL21644-01
MOSKOWITZ, MITCHELL	P01HL13737-07 0007
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MOSKOWITZ, MITCHELL	P01HL13737-07 0036
MOSKOWITZ, MITCHELL	P01HL13737-07 0039
MOSKOWITZ, MITCHELL	R01HL22274-01
MOSS, ARTHUR J	R01HL15790-06
MOSS, ARTHUR J	R01HL22982-01
MOSS, NED	P01HL03174-23 0012
MOTOYAMA, ETSURO K	R01HL21444-02
MOTT, GLEN E	P50HL19362-02 0001
MOTT, GLEN E	P50HL19362-02 0009
MOTT, GLEN E	P50HL19362-02 0013
MUELLER, GILTRUO	N01HV62960-00
MUESING, RICHARO A	R01HL19250-03
MUIRHEAD, ERNEST E	R01HL19287-03
MULLER-EBERHARD, HA	P01HL16411-04
MULLER-EBERHARD, HA	P01HL16411-04 0001
MULLINS, CHARLES B	P50HL14187-07 0005
MULROW, PATRICK J	R01HL19229-02
MULROW, PATRICK J	R01HL19644-03
MUNOTH, ELDREO D	N01HV32985-11
MUNNS, THEODORE W	R01HL15619-05
MURAD, FERID	R01HL18260-04
MURPHY M J JR	N01HB82924-00
MURPHY,	P01HL19717-02 0044
MURPHY, ALEXANOER J	P01HL16607-05 0005
MURPHY, GEORGE E	R01HL01803-23 0019
MURPHY, SCOTT	R01HL20818-02
MURRAY, JOHN F	P50HL19155-02 0001
MURRAY, ROBERT F, J	P60HL15160-07 0003
MUSE, KENNETH E	P50HL19171-02 0009
MUSTAFA, SYEO J	R01HL19202-03
MYERBURG, ROBERT J	R01HL18769-04
MYERBURG, ROBERT J	R01HL21735-01
MYRVIK, QUENTIN N	P01HL16769-05
MYRVIK, QUENTIN N	P01HL16769-05 0003
MYRVIK, QUENTIN N	P01HL16769-05 0009
MYRVIK, QUENTIN N	P01HL16769-05 0010
NACHMAN, RALPH L	P50HL18828-03
NACHMAN, RALPH L	P50HL18828-03 0001
NACHMIAS, VIVIANNE	P01HL15835-06 0004
NADAS, ALEXANDER S	R01HL09476-10
NAOAS, ALEXANOER S	P01HL10436-13
NADAS, ALEXANOER S	P01HL10436-13 0001
NAOEL, ALFREO J	P01HL21016-02 0016
NADEL, ETHAN R	R01HL20634-01
NAOEL, JAY A	P01HL06285-18 0181
NAOEL, JAY A	P01HL06285-18 0188
NAOEL, JAY A	P01HL06285-18 0189
NAOEL, JAY A	P01HL06285-18 0190
NAOEL, JAY A	P50HL19156-02
NAOEL, JAY A	P50HL19156-02 0001
NADEL, JAY A	P50HL19156-02 0003
NAGEL, RONALD L	P01HL21016-02
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NAGEL, RONALO L	P01HL21016-02 0011
NAGEL, RONALO L	P01HL21016-02 0014
NAGEL, RONALD L	P01HL21016-02 0017
NAGEL, RONALO L	P01HL21016-02 0019
NAIR, PANKAJAM	R01HL13134-07
NAITO, H K	P01HL06835-17 0064
NAKAMURA, ROBERT M	R01HL15840-02
NAKEFF, ALEXANDER	R01HL20826-02
NASJLETTI, ALBERTO	R01HL18579-03
NATHAN, DAVID	P60HL15157-07 0018
NATHAN, OAVID G	R01HL20000-03
NATHAN, MARC A	P01HL18974-03 0006
NATHAN, MARC A	P01HL18974-03 0017
NATHAN, RICHARO D	R01HL20708-02
NATTA, CLAYTON L	R01HL19324-02
NATTIE, EUGENE E	R01HL18351-03
NAVAR, LUIS G	R01HL18426-04
NEEOLEMAN, PHILIP	R01HL14397-07
NEEDLEMAN, PHILIP	P50HL17646-04 0016
NEEOLEMAN, PHILIP	R01HL20787-02
NEEDLEMAN, PHILIP	N01HV72945-03
NEELY, JAMES R	R01HL13028-09
NEELY, JAMES R	R01HL18206-04
NEELY, JAMES R	R01HL20484-03
NEILL, CATHERINE A	R01HL10718-10
NELLIS, STEPHEN H	R01HL22917-01

NELSESTUEN, GARY L	R01HL15728-06
NELSON, ERLAND R	R13HL20765-01
NELSON, NICHOLAS M	P50HL19190-02
NELSON, NICHOLAS M	P50HL19190-02 0008
NELSON, THOMAS E	N01HR72921-01
NEMECEK, GEORGINA M	R23HL21320-02
NEMERSON, YALE R	R01HL22980-01
NEREM, ROBERT M	R01HL16236-04
NESS, GENE C	R01HL18094-04
NEURATH, A R	P01HL09011-15 0005
NEW, MARIA I	R01HL17749-03
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NEWBALL, HAROLD H	P50HL14153-07 0015
NEWBALL, HAROLD H	R01HL18526-03
NEWELL, JONATHAN C	R01HL18630-03
NEWMAN, JACK	P01HL15596-05 0008
NEWMAN, WALTER H	R01HL14545-06
NIARCHOS, ANDREAS D	P50HL18323-04 0046
NICHOLS, ALEX V	P01HL18574-03 0005
NICHOLS, C J	P01HL08899-14 0007
NICHOLS, CHARLES W	P01HL08899-14 0048
NICHOLS, CHARLES W	P01HL08899-14 0049
NICHOLS, CHARLES W	P01HL08899-14 0067
NICHOLS, WILLIAM K	R01HL20125-02
NICHOLSON, BRUCE L	R01HL19164-03
NIEDERMIER, WILLIAM	P01HL11310-12 0099
NIEHAUS, WALTER G,	R01HL20074-02
NIES, ALAN S	R01HL21308-01
NIEWIAROWSKI, STEFA	P50HL14217-08 0054
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NISHIDA, TOSHIRO	R01HL17597-05
NOBLE, ROBERT W	R01HL12524-10
NOLAN, STANTON P	R01HL17969-04
NOON, GEORGE P	P01HL13330-08 0034
NOORDERGRAAF, ABRAH	R01HL10330-11
NORIN, ALLEN J	P01HL17417-05 0001
NORIN, ALLEN J	P01HL17417-05 0004
NORMAN, JOHN C	N01HV53006-06
NORMAN, JOHN C	N01HV72936-00
NORMAN, PHILIP S	P50HL14153-07 0011
NORMAN, ROGER A, JR	P01HL11678-11 0031
NORMAN, ROGER A, JR	P01HL11678-11 0060
NORTHWAY, WILLIAM H	R01HL14663-07
NORTON, TED R	R01HL15991-05
NORWOOD, WILLIAM I	R01HL20143-02
NOSE, YUKIHIKO	R01HL18639-03
NOSE, YUKIHIKO	N01HV42960-07
NOSSEL, HYMIE	P01HL15596-05 0002
NOSSEL, HYMIE L	P50HL14236-05 0003
NOSSEL, HYMIE L	P01HL15486-06
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NOSSEL, HYMIE L	P01HL15486-06 0006
NOSSEL, HYMIE L	P50HL21006-02 0006
NOWYGROD, ROMAN	R23HL22448-01
NUDELMAN, SOL	P50HL14136-07 9004
NUTE, PETER E	R01HL20961-02
NYILAS, EMERY	N01HV32917-08
NYILAS, EMERY	N01HV42961-06
O'BRIEN, JOHN F	R01HL21646-02
O'DELL, BOYD L	R01HL11614-11
O'SULLIVAN, JOHN B	R01HL20535-02
OALMANN, MARGARET C	P01HL08974-14 0005
OATES, JOHN A	R01HL16489-04
OBANNON, WILLIAM	P01HL13330-08 0031
OBERMAN, ALBERT	P50HL17667-04 0001
OBERMAN, ALBERT	R01HL20248-01
OBERMAN, ALBERT	N01HV12440-14
OBRIST, PAUL A	R01HL18976-03
ODESSEY, RICHARD	P01HL19242-02 0001
OEGEMA, THEODORE R	R01HL21612-02
OGAWA, MAKIO	R01HL20913-02
OGRA, PEARAY L	R01HL21829-01
OHNISHI, TSUYOSHI	R01HL23200-01
OKAMOTO, KOZO	R01HL17754-03
OKEN, DONALD E	R01HL19463-02
OKITA, GEORGE T	R01HL18598-03
OLDFIELD, ERIC	R01HL19481-03
OLDHAM, H NEWLAND	P50HL17670-04 0006
OLINGER, CHARLES P	N01HV72924-04
OLIVER, CHARLES G	N01HV72989-02
OLIVER, G CHARLES	R01HL18808-04
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OLIVER, G CHARLES	R01HL18808-04 0003
OLSON, JOHN S	R01HL16093-05
OLSON, MERLE S	R01HL20544-02
OLSSON, RAY A	R01HL20782-01
OLSZOWKA, ALBERT J	P01HL14414-07 9002
OMACHI, AKIRA	R01HL13567-06
ONCLEY, J LAWRENCE	R01HL09739-13
ONG, ENG B	P01HL15596-05 0007
ONG, ENG B	P01HL15596-05 0019
ONTKO, JOSEPH A	R01HL13302-09
OPOYKE, DAVID F	R01HL18868-03
OPPENHEIM, JOEL D	R23HL21328-02
OREM, JOHN M	R01HL21257-02
ORENSTEIN, DAVID M	R23HL21954-01
ORITZ DE MONTELLANO	R01HL15476-05
ORKIN, STUART H	R23HL21428-02
ORLOWSKI, MARIAN	R01HL21105-02
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ORTH, DAVID N	P50HL14214-07 0024
OSTFELD, ADRIAN M	N01HV72984-03
OSTRANDER, LEE E	R01HL20607-02
OSTRANDER, LEON D,	R01HL20508-03
OSTRO, MARC J	R23HL22839-01
OTIS, ARTHUR B	R01HL19829-02
OU, LO-CHANG	R01HL21159-02
OVERBECK, HENRY W	R01HL23312-01
OVERBECK, HENRY W	R01HL23600-01
OVERTURF, GARY D	P60HL15162-07 0021
OVERTURF, MERRILL L	R01HL20189-01
OVITT, THERON W	N01HV72931-02
OWEN, CHARLES A	P01HL17430-05 0006
OWEN, PATTY J	P50HL19153-02 0007
OWEN, WHYTE G	R01HL22471-01
PACE, JOHN B	P01HL08682-15 0038
PACK, A	P01HL08805-15 0045
PAFFENBARGER, RALPH	R01HL19839-09
PAGANELLI, CHARLES	P01HL14414-07 0004
PAGE, ERNEST	R01HL10503-13
PAGE, ERNEST	P50HL17648-04 0031
PAGE, ERNEST	P01HL20592-02 0006
PAGE, ERNEST	P01HL20592-02 0010
PAGE, ERNEST	P01HL20592-02 0014
PAI, A L	P50HL17648-04 0034
PALADE, GEORGE E	R01HL17080-05
PALEK, JIRI	P60HL15157-07 0009
PALMER, ROGER F	P01HL16117-05 0005
PALUMBO, PASQUALE J	R01HL20483-03
PALUMBO, PASQUALE J	R01HL20522-03
PANG, DAVID C	R01HL21493-02
PANGANELLI, C V	P01HL14414-07 0016
PAPKA, RAYMOND E	R01HL22226-01
PAPPANO, ACHILLES J	R01HL13339-08
PARK, BYUNG H	R01HL19628-03
PARK, SUNG S	R01HL18308-03
PARKER, FRANK	P01HL18645-03 0004
PARKER, JAMES C	P01HL11678-11 0020
PARKEY, ROBERT W	P50HL17669-04 0009
PARKHURST, LAWRENCE	R01HL15284-06
PARMLEY, WILLIAM W	P01HL06285-18 0153
PARMLEY, WILLIAM W	P01HL06285-18 0154
PARMLEY, WILLIAM W	P01HL06285-18 0155
PARMLEY, WILLIAM W	P01HL06285-18 0156
PARMLEY, WILLIAM W	P01HL06285-18 0157
PARMLEY, WILLIAM W	R01HL21793-02
PARODI, EDUARDO N	P01HL12738-10 0092
PARSHLEY, MARY S	P01HL15832-06 9001
PARSONNET, VICTOR	R01HL15247-05
PARSONS, RODNEY L	R01HL22269-01
PATTERSON, DONALD F	R01HL18848-03
PATTERSON, RANDOLPH	R23HL21151-02
PATTERSON, ROY	P50HL15389-07 0010
PATZ, ARNALL	R01HL20455-03
PAUL, RICHARD J	R01HL23240-01
PAULIN, SVEN	P01HL11414-11 0024
PAULIN, SVEN J	R01HL19003-03
PAVLIN, DOROTHY J	R23HL21050-02
PAWLOWSKI, PHILIP J	R23HL21663-01
PEACH, MICHAEL J	P01HL19242-02 0008
PEARSON, HOWARD A	R01HL19961-03
PEASE, DANIEL C	R01HL01770-26
PECHET, LIBERTO	R01HL17752-03
PEDRINI, VITTORIO A	R01HL21626-01
PEGRAM, BARBARA L	R01HL20542-03
PEISACH, JACK	R01HL13399-16
PEISACH, JACK	P01HL21016-02 0015
PEMRICK, SUZANNE M	R01HL22401-01
PENICK, GEORGE D	P50HL14230-07 0098
PENICK, GEORGE D	P50HL14230-07 0099
PENNEY, DAVID G	R01HL22859-01
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PENNINGTON, G	P01HL06312-17 0042
PENNINGTON, G	P01HL06312-17 0043
PENNINGTON, G	P01HL06312-17 0047
PENNINGTON, G	P01HL06312-17 0049
PENNINGTON, G	P01HL06312-17 0050
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PEPE, FRANK A	P01HL15835-06 0006
PEPE, FRANK A	P01HL15835-06 0027
PERLMAN, ROBERT L	R01HL18148-04
PERMUTT, SOLBERT	P01HL10342-13
PERMUTT, SOLBERT	P01HL10342-13 0008
PERMUTT, SOLBERT	P50HL14153-07 0018
PERNOW, BENGT B	R01HL18994-03
PERSIDSKY, MAXIM D	R01HL20788-02
PERSON, RONALD	P60HL20985-01 0008
PESKIN, CHARLES S	R01HL17859-04
PETERS, JEFFREY L	P01HL13738-08 0003
PETERS, RICHARD M	R01HL13172-10
PETERS, ROBERT W	N01HV82901-02
PETERS, THEODORE, J	R01HL02751-21
PETERSDORF, ROBERT	R01HL17751-03
PETERSEN, ROBERT D	P01HL20994-02 9003
PETERSON, KIRK L	P01HL12373-10 0003
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PETERSON, KIRK L	P50HL17682-04 0005
PETTY, THOMAS L	R01HL22723-01
PETTY, THOMAS L	N01HR62942-04
PETZ, LAWRENCE D	P60HL20985-01 0007
PHIBBS, RODERIC	P01HL06285-18 0136
PHIBBS, RODERIC H	P50HL19185-02 0006
PHILIP, R B	P01HL07896-15 0057
PHILLIPS, DAVID R	R01HL15616-04
PHILLIPS, DAVID R	R01HL21487-01
PHILLIPS, GERALD B	R01HL20645-01
PHILLIPS, JERRY C	P60HL15169-05 0012
PHILLIPS, JERRY L	R01HL19132-04
PHILLIPS, M IAN	P01HL14388-07 0207
PHILLIPS, MICHAEL C	P01HL22633-01 0004
PHILLIPS, ROLAND L	R01HL20005-03
PHILLIPS, STEVEN J	R01HL19009-03
PICCIANO, PAUL T	R23HL21396-02
PICK, RUTH	R01HL19112-03
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PIERCE, JOHN A	P01HL16118-06
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PIERCE, WILLIAM S	R01HL20356-02
PIERSON, RICHARD N,	R01HL23983-01
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PITTMAN, ROLAND N	R01HL18292-04
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PLONSEY, ROBERT	R01HL17931-04
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POIRIER, VICTOR C	N01HV12065-16
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POLMAR, STEPHEN H	R01HL13885-08 0006
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POOLE, KENNETH W	N01HV72979-01
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PORUSH, JEROME G	R01HL10914-10
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POWELL, WM JOHN	P01HL06664-17 0034
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PRIVETT, ORVILLE S	R01HL21764-01
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PROCKOP, LEON D	P01HL08899-14 0043
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PROCTOR, DONALD F	P50HL19157-02 0003
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PROPPE, DUANE W	R01HL21451-01
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PROUT, THADDEUS E	N01HV82904-02
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PRYOR, WILLIAM A	R01HL16029-05
PUGLIA, CHARLES D	P01HL08899-14 0040
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PUSZKIN, ELENA G	R01HL18030-04
PUSZKIN, SAUL	R01HL20718-02
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QUINN, JOHN A	R01HL22327-01
RABB, MAURICE F	P60HL15168-07
RABB, MAURICE F	P60HL15168-07 0006
RABELLINO, ENRIQUE	P50HL18828-03 0009
RABINOWITZ, MURRAY	R01HL04442-20
RABINOWITZ, MURRAY	R01HL09172-15
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RABNER, BUDDY D	P01HL22163-01 9001
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RADVANY, PAULO	P01HL10539-12 0070
RAHIMTOOLA, SHAHBUD	R01HL21527-01
RAHWAN, RALF G	R01HL21670-01
RAKITZIS, E T	R01HL09906-13 0024
RAMON, FIDEL	R01HL22767-01
RAMSAY, DAVID J	R01HL18862-02
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RAMWELL, PETER W	R01HL18718-04
RAND, PETER W	R01HL22123-02
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RANDALL, OTELIO S	P01HL18575-03 0006
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RANDALL, WALTER C	P01HL08682-15 0016
RANDALL, WALTER C	P01HL08682-15 0017
RANDALL, WALTER C	P01HL08682-15 0018
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RANNELS, D EUGENE,	R01HL20344-02
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RAPAPORT, ELLIOT	P01HL06285-18 0164
RAPAPORT, SAMUEL I	P01HL18576-03 0007
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RASHKIND, WILLIAM J	R01HL12307-08
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RAUTAHARJU, P M	N01HV42911-07
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REBA, RICHARD C	R01HL19127-03
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REEVES, JOHN T	R01HL20429-03
REEVES, JOHN T	N01HR62920-02
REEVES, ROBERT B	P01HL14414-07 0014
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REHDER, KAI	P01HL21584-02 0003
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REICHENBACH, DENNIS	R01HL21750-02
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REID, JOHN M	N01HV72926-04
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REID, LYNNE M	R01HL19225-02 0001
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REIF, JOHN S	P50HL15061-07 0010
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REINECK, HENRY J	R23HL22438-01
REINER, JOHN M	P01HL20993-02 0009
REIS, DONALD J	P01HL18974-03
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REIVICH, M	P01HL08899-14 0013
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RENKIN, EUGENE M	R01HL18010-04
RENNE, CHARLES M	R01HL22021-01
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RHO, JOON H	R01HL21099-02
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RICE, DAVID A	R23HL21199-02
RICH, ALEXANDER	P60HL15157-07 0011
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RICHARDSON, PETER D	R01HL22338-01
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RICHERSON, HAL B	R01HL22676-01
RICHMOND, VIRGINIA	R01HL18931-02
RIESKE, JOHN S	R01HL18304-03
RIFKIN, DANIEL B	R01HL22266-01
RIGATTO, HENRIQUE	N01HR62949-05
RIM, KWAN	P01HL14388-07 0214
RIMM, ALFRED A	N01HB62964-03
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RIORDAN, JAMES F	R01HL22387-01
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ROBIN, EUGENE D	R13HL22068-01
ROBINSON, NORMAN E	R01HL17768-04
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ROCHESTER, DUDLEY F	R01HL22022-01
ROCHESTER, DUDLEY F	R13HL22525-01
ROCKEY, JOHN H	P01HL08899-14 0050
RODARATE, JOSEPH R	P01HL21584-02 0002
RODEN, LENNART	P01HL11310-12 0103
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RODGERS, JOHN B, JR	R01HL17332-04
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RODVIEN, ROBERT	R01HL20313-02
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ROESKE, WILLIAM R	P01HL20984-02 9002
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ROGERS, MICHAEL E	R01HL22566-01
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ROMAN, STANFORD A,	P60HL15157-07 0003
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ROOS, ALBERT	R01HL00082-30
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ROSELLI, ROBERT J	R23HL22933-01
ROSEN, JONATHAN J	R23HL21805-01
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ROSEN, MICHAEL R	P01HL12738-10 0107
ROSEN, MICHAEL R	P01HL12738-10 0108
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ROSENBERG, ANDREAS	P01HL16833-04 0002
ROSENBERG, ROBERT D	R01HL19131-04
ROSENBLOOM, JOEL	P01HL20994-02 0009
ROSENBLUM, WILLIAM	R01HL12775-08
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ROSENBLUM, WILLIAM	R01HL18932-03
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ROSENQUIST, GLENN C	R01HL20132-03
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ROSKA, A KAY	R23HL21918-01
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ROSKOSKI, ROBERT, J	P01HL14388-07 0211
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ROSS, GORDON	R01HL18199-03
ROSS, JOHN, JR	P01HL12373-10
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ROSS, RUSSELL	P01HL18645-03
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ROSSEN, ROGER D	P60HL17269-04 0033
ROSSEN, ROGER D	R01HL23161-01 0005
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ROTH, EUGENE F, JR	P01HL21016-02 0009
ROTH, GERALD J	R01HL20794-02
ROTH, JEROME A	R01HL22077-01
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ROTHBLAT, GEORGE	P01HL22633-01 9001
ROTHE, CARL F	R01HL07723-15
ROUSH, ROBERT E	P60HL17269-04 0037
ROVETTO, MICHAEL J	R01HL17895-04
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ROWLANDS, DAVID T	P50HL15061-07 0009
ROWLEY, PETER T	R01HL17465-04
RUBENFIRE, MELVYN	P01HL13737-07 0030
RUBENSTEIN, ARTHUR	P50HL15062-07 0013
RUBERMAN, WILLIAM	R01HL13974-07
RUBERMAN, WILLIAM	R01HL23078-01
RUBINSTEIN, PABLO	P01HL09011-15 0013
RUBIO, RAFAEL	P01HL19242-02 0003
RUCKER, ROBERT B	R01HL15965-06
RUCKER, ROBERT B	R01HL18918-03
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RUDNICK, GARY W	R01HL21217-01
RUDOLPH, ABRAHAM M	P01HL06285-18 0125
RUDOLPH, ABRAHAM M	P01HL06285-18 0126
RUDOLPH, ABRAHAM M	P01HL06285-18 0128
RUDOLPH, ABRAHAM M	P01HL06285-18 0131
RUDOLPH, ABRAHAM M	P01HL06285-18 0132
RUDOLPH, STEPHEN A	R01HL21995-01
RUPLEY, JOHN A	P01HL20984-02 0002
RUSH, BENJAMIN F, J	R01HL13193-09
RUSH, STANLEY	R01HL09831-12
RUSKIN, JEREMY N	R01HL22862-01
RUSSELL, DIANE H	P01HL20984-02 0006
RUSSELL, JAMES A	P01HL21584-02 0005
RUSSELL, MICHAEL L	P60HL17269-04 0047
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RUSSELL, PAUL S	P01HL18646-03 0004
RUSSELL, PAUL S	P01HL18646-03 0006
RUTHERFORD, ROBERT	R01HL22893-01
RYAN, JAMES W	R01HL22087-02
RYAN, JAMES W	R01HL22896-01
RYAN, STEPHEN F	R01HL23981-01
RYAN, UNA S	R01HL21568-02
RZESZOTARSKI, WACLA	R01HL22522-01
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SABESIN, SEYMOUR M	R01HL22121-02
SABESIN, SEYMOUR M	R01HL23945-06
SABISTON, DAVID C,	R01HL09315-15
SACHS, FREDERICK	R01HL21294-02
SACHS, HOWARD G	R01HL18032-03
SACKNER, MARVIN A	R01HL10622-12
SAGAWA, KIICHI	R01HL14529-07
SAGAWA, KIICHI	R01HL14903-07
SAGAWA, KIICHI	R01HL18912-03
SAID, SAMI I	P50HL14187-07
SAID, SAMI I	P50HL14187-07 0012
SAIDE, JUDITH D	R01HL22985-01
SAKURA, J DAVID	R01HL18746-02
SALEN, GERALD	R01HL17818-05
SALGANICOFF, LEON	P50HL14217-08 0057
SALSER, WINSTON A	R01HL21831-05
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SALZANO, JOHN V	P01HL07896-15 0014
SALZANO, JOHN V	R01HL13888-15
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SALZMAN, EDWIN W	R01HL20079-02
SALZMAN, EDWIN W	R01HL20079-02 0002
SAMPSON, SANFORD R	P50HL19156-02 0005
SAMUEL, P	P50HL14236-05 0011
SAMUEL, PAUL	R01HL22567-01
SAMUELS, ALLAN I	P50HL19362-02 0010
SANBORN, WARREN G	P01HL11351-12 0013
SANCES, ANTHONY, JR	N01HI02216-10
SANDBERG, LAWRENCE	R01HL11963-10
SANDBERG, LAWRENCE	R01HL20546-02
SANDBERG, LAWRENCE	R01HL22446-01
SANDERS, A P	P01HL07896-15 0049
SANDERS, TOMMY M	R01HL18560-03
SANT'AMBROGIO, GIUS	R01HL20122-02
SANTISTEBAN, GEORGE	R01HL20384-09
SARDESAI, VISHWANAT	R01HL20369-03
SASHIN, DONALD	N01HV72932-00
SATCHER, DAVID	P60HL23282-01
SATCHER, DAVID	P60HL23282-01 9001
SATIR, PETER	R01HL22560-02
SAUDEK, CHRISTOPHER	R01HL20488-03
SAUM, WILLIAM R	R23HL22245-02
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SCANU, ANGELO M	P01HL18577-03 0008
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SCHMID, PHILLIP G	P01HL14388-07 0183
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SEVERINGHAUS, JOHN	P01HL06285-18 0147
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SHELL, WILLIAM E	P50HL17651-04 0041
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SHEPHERD, JOHN T	R01HL05883-18 0003
SHEPHERD, JOHN T	R01HL05883-18 0004
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SHEPHERD, JOHN T	R01HL05883-18 0007
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SHERRY, SOL	P50HL14217-08
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SHUMWAY, NORMAN E	R01HL08696-15 0010
SHUMWAY, NORMAN E	R01HL08696-15 0011
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SILK, SUSAN T	R23HL21490-02
SILVER, OONALO	R01HL18815-03
SILVER, MELVIN J	R01HL14890-07
SILVERBERG, SIDONIE	R01HL22955-01
SILVERSTEIN, EMANUE	R01HL19077-01
SIMON, GEZA	R01HL21673-01
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SIMON, MORRIS	R01HL20554-02
SIMON, S A	P01HL12157-11 0038
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SINGH, OIWAN	R23HL22984-01
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SIPERSTEIN, MARVIN	P01HL06285-18 0151
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SMITH, FRED G, JR	P01HL14388-07 0188
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SMITH, JAMES R	R01HL21009-02
SMITH, JOSEPH E	R01HL12972-09
SMITH, KEVIN M	R01HL22252-01
SMITH, KIRBY 0	R01HL15026-12
SMITH, LELANO L	R01HL10160-13
SMITH, LINOA L	R01HL19456-03
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SMITH, ORVILLE A	P01HL16910-05 0007
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SMITHERMAN, THOMAS	P50HL17669-04 0002
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SNIOER, GORDON L	P01HL19717-02 0018
SNIOER, GOROON L	P01HL19717-02 0019
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SOBEL, BURTON E	P50HL17646-04 0009
SOBEL, BURTON E	P50HL17646-04 0017
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SOBIN, SIDNEY S	N01HR62910-02
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SONNENBLICK, EDMUNO	R01HL20426-03
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SOUHRAOA, JOSEPH F	R01HL17322-04
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SPACH, MAOISON S	P01HL11307-12 0002
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SPAET, THEODORE H	P01HL16387-04 0003
SPAET, THEOOORE H	P01HL16387-04 0005
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SPANN, JAMES F, JR	R01HL17631-05
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SPARGO, BENJAMIN H	R01HL10980-11
SPARK, RICHARO F	P01HL11414-11 0014
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SPARKS, HARVEY V	R01HL20399-03
SPARKS, ROBERT E	R01HL18764-03
SPARROW, JAMES T	P60HL17269-04 0013
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SPATH, JAMES A, JR	R01HL21452-02
SPEAR, JOSEPH F	R01HL19045-03
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SPECTOR, ARTHUR A	P50HL14230-07 0092
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SPENCER, MERRILL P	R01HL19341-03
SPERELAKIS, NICK	R01HL18711-03
SPERELAKIS, NICK	P01HL19242-02 0009
SPICER, SAMUEL S	P50HL19160-02 0002
SPIRO, THOMAS G	R01HL12526-09
SPIVAK, JERRY L	R01HL21692-02
SPOCK, A	P01HL07896-15 0043
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SPOTNITZ, HENRY H	P01HL12738-10 0094
SPOTNITZ, HENRY H	P01HL12738-10 0098
SPOTNITZ, HENRY M	R01HL22894-01
SPRAGG, JOCELYN	R01HL22939-01
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STAHLMAN, MILOREO T	P50HL14214-07 0034
STAHLMAN, MILDREO T	R01HL22520-01
STAMATOYANNOPOULOS,	R01HL20899-02
STAMLER, JEREMIAH	R01HL15174-06
STAMLER, JEREMIAH	R01HL15374-03
STAMLER, JEREMIAH	R01HL21010-02
STAMMER, CHARLES H	R01HL17896-03
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STANKUS, KATHERINE	P50HL17651-04 0033
STANKUS, KATHERINE	P50HL17651-04 0034
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STARK, ANN R	R23HL21405-01
STARR, ALBERT	R01HL16461-05
STARY, HERBERT C	R01HL22739-01
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STAUB, NORMAN C	P50HL19155-02
STAUB, NORMAN C	P50HL19155-02 0004
STAUB, NORMAN C	P50HL19155-02 0005
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STCLAIR, RICHARD W	P50HL14164-07 0035
STCLAIR, RICHARD W	P50HL14164-07 0036
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STEELE, THOMAS H	R01HL22836-01
STEER, MICHAEL L	R01HL20956-02
STEIN, YECHEZKIEL	N01HV53015-09
STEINBERG, DANIEL	P01HL12373-10 0006
STEINBERG, DANIEL	P50HL14197-07
STEINBERG, OANIEL	P50HL14197-07 0005
STEINBERG, DANIEL	R01HL22053-02
STEINBERG, OANIEL	N01HV12160-15
STEINER, MANFREO	R01HL19323-03
STEINER, MANFRED	R01HL22951-01
STEINHARDT, JACINTO	R01HL12256-15
STEINMETZ, PHILIP R	P01HL14388-07 0191
STEINSLAND, ODD S	R01HL20439-02
STEKIEL, WILLIAM J	R01HL16454-03
STELLWAGEN, EARLE	P01HL14388-07 0175
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STEMMERMANN, GRANT	N01HV62955-04
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STERN, ARNOLD	R01HL19532-01
STEVENS, CLAOO E	R01HL22838-01
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STEWART, OOUGLAS K	P01HL07293-17 0053
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STILL, WILLIAM J	R01HL09622-14
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STINSON, EOWARO B	R01HL17993-04 0001
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STOECKENIUS, WALTHE	P01HL06285-18 0212
STOECKENIUS, WALTHE	P01HL06285-18 0213
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STONE, HUBERT L	R01HL18798-04 0003
STONE, HUBERT L	R01HL22154-01
STONE, HUBERT L	R01HL23206-01
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STONE, PHILIP J	P01HL19717-02 0003
STONE, RICHARD A	R01HL18095-04
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VATNER, STEPHEN F	R01HL17459-03
VATNER, STEPHEN F	P50HL17665-04 0012
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WALDO, ALBERT L	P01HL11310-12 0075
WALDO, ALBERT L	P01HL11310-12 0076
WALDO, ALBERT L	P01HL11310-12 0078
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WHITE, JAMES G	P01HL16833-04 0011
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WIENER, LESLIE	R01HL22815-01
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WILD, J E	N01HV33105-09
WILDENTHAL, C KERN	R01HL14706-07
WILDENTHAL, C KERN	P50HL17669-04 0011
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WILDENTHAL, KERN	P01HL06296-18 0005
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WILKINSON, J SIDNEY	R01HL18561-03
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WILLERSON, JAMES T	R01HL15522-06
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WILLIAMS, JOHN F, J	R01HL13639-07
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WILLIAMS, PATRICIA	R01HL19275-03
WILLIAMS, REDFORD B	R01HL18589-03
WILLIAMS, REDFORD B	R01HL22740-01
WILLIAMS, ROGER R	R01HL21088-02
WILLIAMS, THOMAS E,	R01HL22801-01
WILLIAMSON, HAROLD	P01HL14388-07 0190
WILLIAMSON, HAROLD	P01HL14388-07 0225
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WILLIAMSON, JOHN R	P01HL18708-03 0009
WILLIAMSON, JOSEPH	R01HL13694-08
WILLIAMSON, JOSEPH	P50HL17646-04 0003
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WILLIS, LYNN R	P50HL14159-08 0008
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WILLMAN, VALLEE L	P01HL06312-17 0036
WILLMAN, VALLEE L	P01HL06312-17 0039
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WILNER, GEORGE D	P01HL15486-06 0004
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WILSON, JOSEPH E	R01HL21194-02
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WILSON, THEODORE A	P01HL21584-02 0001
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WINEGRAD, SAUL	R01HL18900-03
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WISSIG, STEVEN L	R01HL04512-19
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WISSLER, ROBERT W	P50HL15062-07 0021
WISSLER, ROBERT W	P50HL17648-04 0020
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